THE

INDIAN YEAR BOOK

1915.

A STATISTICAL AND HISTORICAL ANNUAL OF THE INDIAN EMPIRE, WITH AN EXPLANATION OF THE PRINCIPAL TOPICS OF THE DAY

STANLEY REED, LL.D.

SECOND YEAR OF ISSUE.

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PREFACE.

In the preface to the first issue of the Indian Year Book, the Editor appealed to the public continuously to edit it, for only in this manner could it assume and retain the qualities requisite in a current handbook to the Indian Empire. The appeal met with a very welcome response. Whilst the proverbial kindness of the English reading public induced many grateful words of appreciation, many valuable suggestions were offered, which have been incorporated in the second issue so far as possible. If the response has not in all cases been as adequate as was desired, I hope that the critics will appreciate the difficulties of editing the Year Book during a great war. Not only did the war throw a heavy burden of work upon every journalist during the months when the work of revision was most active, but it also impaired the capacity for help of those valued colleagues to whose co-operation so much of the success which has been attained by the Indian Year Book is due.

Amongst the new features introduced in response to these suggestions is a review of the work of the Legislative Councils. The summary of the proceedings of the Imperior Legislative Council has been made as complete as possible; those of the Provincial Councils are naturally shorter. Another feature is an analysis of the systems of Local Government in India, though this must necessarily be incomplete where such wide diversity exists and when the promised declaration of Government policy is still awaited. The section dealing with the Peoples of India has also been enlarged from the materials in Mr. Gait's report on the census of 1911; and a special section dealing with manners and customs has been introduced for those who are visiting India for the first time. The important events of an exceptional year have been recorded with greater fullness, and the part which India has played in the war is described in a separate article.

The Editor would gladly have accepted the suggestion to express all values in sterling, but as long as Iudian official literature jumps from rupees to sterling and from millions to crores and lakhs, this is impracticable. An explanatory statement is given on page 314. The Army Commands have been omitted from the present volume, because, owing to the war, any list is out of date by the time it is printed.

In other respects the second issue of the Indian Year Book, with additions and improvements, closely follows the plan pursued in the first volume. The public then evidenced their approval of the work by exhausting a large edition within three months of publication. Whilst gratefully acknowledging this valued support, and once more offering his thanks to the contributors whose assistance has made the Indian Year Book what it is, the Editor would repeat his appeal for continuous editing by the public, and his assurance that every practicable suggestion will be embodied in future issues.

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Phases of the Moon-JANUARY 31 Days.

O Full Moon1st, 5h. 50.5m. P.M. € Last Quarter 9th, 2h. 42 · 6m. A.H. Periges12th, 7.6h. P.M.

Sunday

New Moon ... 15th, 8h. 11 9m. P.K. First Quarter ... 23rd, 11h. 2 3m. A.M. Full Moon ... 31st, 16h. 11 3m. A.M. Apogee 24th, 2 2h. P.M.

0 15.7

Phases of the Moon-FEBRUARY 28 Days.

First Quarter.....22nd, 8h. 28°8m. A.M.
Apogee21st, 11°4h. A.M.

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	35	7	12	6	83	0	58	19.7	16 3
	36	7	12	6	34	0	53	20.7	16 14
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8	89	7	11	6	85	0	53	28.7	15 19
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Phases of the Moon-MARCH 31 Days.

O Full Moon 2nd, Oh. 2.6m A.M. Last Quarter . . . 8th, 5h. 57.6m. P.M. Perigee 5th, 8.6h. P.M.

New Moon 16th, 1h. 12 3m. a.m.
First Quarter ... 24th. 4h. 18 6m. a.m.
Apogee 21st, 6 7h. a.m.

B	Day of	Day of			lean '	lime.			Moon's	Dec	m's dino
Day of the Week	Month.	the Year.		nrise. .M.		nset.	ı K	rue	Age at Noon.	at 3	on Icar on.
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Monday .	. 1	60	6	59	6	44	0	м. 51	15.1		59
Tuesday .	. 2	61	6	58	6	45	0	51	O 16·1	7	3€
Wednesday .	. 8	62	6	57	6	45	0	51	17.1	7	18
Thursday .	. 4	63	6	56	6	45	0	51	18.1	6	50
Friday .	. 5	64	6	56	6	46	0	51	19-1	6	27
Saturday .	. 6	65	6	55	6	46	0	50	20.1	6	4
Sunday .	. 7	66	6	54	6	47	0	50	21.1	5	41
Monday .	. 8	67	8	58	6	47	0	50	€ 22.1	5	17
Tuesday .	. 9	68	6	58	6	47	0	50	23.1	4	54
Wednesday .	. 10	69	6	52	6	48	0	49	24.1	4	31
Thursday .	. 11	70	6	51	6	48	0	49	25.1		7
Friday .	. 12	71	в	50	-6	48	0	49	26.1	8	44
Saturday .	. 18	72	6	49	6	48	0	49	27.0	8	20
Sunday .	. 14	73	6	49	6	49	0	48	28.1	2	56
Monday .	. 15	74	6	48	6	49	0	48	29.1	2	88
Puesday .	. 16	75	6	47	6	49	0	48	`● 0*5	2	×
Wednesday .	. 17	76	6	46	6	49	0	48	1.2	1	48
Thursday .	. 18	77	. 6	45	6	49	0	47	2.2	1	25
Friday .	. 19	78	6	44	6	50	0	47	8.2	.0	68
Baturday .	. 20	79	6	48	6	50	0	47	4.2	0	34
Sunday .	. 21	80	6	42	6	50	0	46	5.2	0	, 11 N
Monday .	. 22	81	6	41	6	50	0	46	6.5	0	13
Tuesday .	. 23	82	6	40	8	61	0	46	7.5	0	37
Wednesday	. 24	88	6	89	6	51	0	45	▶ 8.2	1	0
Thursday .	. 25	84	6	89	8	51	0	45	9.5	1	24
Friday	. 26	85	6	89	6	51	0	45	10.2] 1	48
Saturday .	. 27	86	6	38	6	51	0	45	11.2	2	11
Sunday	. 28	87	8	87	В	52	0	44	12.5	2	35
Monday	. 29	88	8	86	6	52	0	44	18.5	2	58
Tuesday .	. 80	89	6	85	6	52	0	44	14.5	3	22
Wednesday .	. 81	90	8	84	6	52	0	48	15.2	8	45

Phases on the Moon-APRIL 30 Days

C Last Quarter7th, 1h 42°4m. A.M.
 New Moon14th, 5h 5°7m. P.M.
 Perigee2nd, 5°1h....A.M.

> First Quarter.....22nd, 9h. 9 · 1m. P.M. O Full Moon29th, 7h. 49 · 3m. P.M. Apogee17th, 9 · 1h....P.M.

	Day of	Day of	1	3	lean '	rime.			Moon's		m'e lina-
Day of the Week.	the Month.	the Year.		nrise. .M.		nset. .x.		rue on.	Age at Noon.	at 3	on iean on.
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Thursday	1	91	6	38	6	58	0	48	16.2	4	8
Friday	2	92	6	88	6	58	0	48	17.5	4	31
Saturday	8	93	6	82	8	58	0	42	18.5	4	54
Sunday	4	94	6	31	6	58	0	42	19.5	5	17
Monday	5	95	6	30	6	54	0	42	20.2	5	41
Tuesday	6	96	6	29	8	54	0	42	21.2	8	8
Wednesday	7	97	6	28	6	54	0	41	€ 22.5	6	26
Thursday	8	98	6	28	8	54	0	41	23.5	į 6	49
Friday	9	99	6	27	6	54	0	41	24.5	7	11 '
Saturday	10	100	6	26	6	55	0	40	25.6	7	83
Sunday	11	101	6	25	6	55	0	40	26.5	7	56
Monday	12	102	6	24	6	55	0	40	27.5	8	18
Tuesday	18	103	6	24	6	56	0	40	28.5	8	40
Wednesday	14	104	8	23	6	56	0	89	● 29.5	9	2
Thursday	15	105	6	22	6	56	0	89	0:8	9	28
Friday	16	106	6	21	6	88	0	89	8•1	9	45
Saturday	17	107	6	21	6	57	0	89	2.8	10	6
Sunday	18	108	6	20	6	57	0	88	8.8	10	27
Monday	19	109	6	19	6	57	0	38	4.8	10	49
Tuesday	20	110	6	19	8	57	0	88	5-8	11	9
Wednesday	21	111	6	18	6	57	0	88	6.8	11	80
Thursday	22	112	6	17	6	58	0	87	> 7.8	11	50
Friday	23	118	8	16	6	58	0	87	, 8.8	12	11
Saturday	24	114	6	15	8	58	0	87	9.8	12	81
Sunday	25	115	6	14	6	59	0	87	10 8	12	51
Monday	26	116	6	14	6	59	0	87	11.8	18	10
Tuesday	27	117	6	18	6	59	0	87	12.8	13	80
Wednesday	28	118	6	18	7	0	0	36	13-8	18	49
Thursday	29	119	6	18	7	0	0	86	O 14·8	14	8
Friday	80	120	6	12	7	0	0	86	15-8	14	27

Phases of the Moon-MAY 31 Days.

 C Last Quarter
 .6th, 10h, 52 6m, A.M.
) First Quarter
 .22nd, 10h, 20 0m, A.M.

 New Moon
 .14th, 9h, 1 0m, A.M.
 O Full Moon
 .29th, 3h, 2 0m, A.M.

 Perigee
 .28th, 11 1h... P.M.
 Apogee
 .15th, 2 9h... A.M.

		Day of	Day of		k	lean I	Cime.			Moon's	Dec	lina-
Day of the W	eek.	the Month.	Day of the Year.		arise. .M.		nset. M.	T: N	rue oon.	Age at Noon.	at M No	
				H.	M.	н.	30:	н.	¥.	D.	1.	۲,
Saturday		1 1	121	6	11	7	1	0	36	16.8	14	45
Sunday		2	122	6	11	7	1	0	86	17.8	15	4
Monday	••	8	123	6	10	7	1	0	36	18.8	15	22
Tuesday		4	124	6	10	7	2	0	86	19.8	15	40
Wednesday		5	125	6	9	7	2	0	85	20.8	15	57
Thursday		-6	126	6	9	7	2	0	35	€ 21.8	16	14
Friday		7	127	6	8	7	8	0	35	22.8	16	31
Saturday		8	128	6	8	7	8	0	85	23.8	16	48
Sunday		9	129	6	7	7	3	0	85	24.8	17	5
Monday		10	130	6	7	7	4	0	35	25.8	17	21
Tuesday		11	131	6	6	7	4	0	35	26.8	17	37
Wednesday		12	132	6	6	7	4	0	35	27.8	17	52
Thursday		13	. 133	6	5	7	5	0	35	28.8	18	7
Friday		14	134	6	5	7	5	0	35	● 0.2	18	22
Saturday		15	135	в	5	7	6	0	35	1.2	18	37
Sunday		16	136	6	4	7	6	0	35	2.2	18	51
Monday		17	137	6	4	7	6	0	35	3.5	19	5
Tuesday		18	138	6	4	7	7	0	35	4.2	19	19
Wednesday		19	139	6	8	7	7	0	35	5.2	19	32
Thursday	••	20	140	6	3	7	7	0	35	6.2	19	46
Friday		21	141	6	8	7	8	0	35	7.2	19	58
Saturday	•	22	142	в	2	7	8	0	35	∌ 8.2	20	11
Sunday		23	143	6	2	7	9	0	35	9.2	20	23
Monday		24	144	6	2	7	9	0	85	10.2	20	34
Tuesday		25	145	6	2	7	9	0	35	11.2	20	46
Wednesday	••	26	146	6	2	7	10	0	35	12-2	20	57
Thursday	••	27	147	6	2	7	10	0	36	18-2	21	7
Friday	••	28	148	6	1	7	11	0	36	14.2	21	17
Saturday		29	149	6	1	7	11	0	86	O 15·2	21	27
Sunday	••	80	150	6	1	7	11	0	36	16.2	21	37
Monday	••	31	151	6	1	7	12	0	36	17 2	21	46

Phases of the Moon-JUNE 30 Days.

《 Last Quarter4th, 10h. 2°1m. P.M. New Moon13th, 0h. 27°3m. A.M. Perigee26th, 7°6hA.M.	First Quarter20th, 7h. 54°3m. P.M. O Full Moon27th, 9h. 57°4m. A.M. Apogee11th, 5°9hA.M.
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		Day of	Day of			lean '	lime.			Moon's	Dec	m's line
Day of the W	eek.	the Month.	the Year.		rise. .M.		nset.		rtte oon.	Age at Noon.	at 3	on
				н.	¥.	н.	¥.	н. Р.	ж. ж.) . D.	. 2	۲,
Tuesday		1	152	6	1	7	12	0	86	18.2	21	55
Wednesday		2	153	6	1	7	12	0	86	19.2	22	3
Thursday		8	154	6	1	7	13	0	36	20 · 2	22	11
Friday		4	155	6	3	7	13	0	37	€ 21.2	22	19
Saturday		3	156	6	1	7	14	0	37	22.2	22	26
Sunday		6	157	6	1	7	14	0	37	23 · 2	22	38
Monday		7	158	6	1	7	14	0	37	24 · 2	22	:19
Tuesday		8	159	6	1	7	15	0	37	25 · 2	22	45
Wednesday		9	160	8	1	7	15	0	38	26.2	22	51
Thursday		10	161	6	1	7	15		38	27 - 2	22	56
Friday		11	162	6	1	7	16	0	38	28 • 2	23	1
Saturday		12	163	6	1	7	16	0	38	29.2	23	5
Sunday		13	164	6	1	7	16	0	38	0.2	23	9
Monday		14	165	6	1	7	17	0	89	1.2	23	13
Tuesday		16	166	6	1	7	17	0	39	2.5	23	16
Wednesday		16	167	6	1	7	17		39	8.2	23	19
Thursday		17	. 168	6	1	7	17	0	89	4.6	23	21
Friday		18	169	6	2	7	18	0	39	5.2	23	2.1
Saturday	٠	19	170	6	2	7	18	0	40	6.2	23	25
Sunday		20	171	6	2	7	18	0	40	7.5	23	20
Monday	••	21	172	6	2	7	18	0	40	8.2	28	27
Tuesday		22	178	6	8	7	19	0	40	9.5	23	27
Wednesday	••	28	174	6	8	7	19	0	40	10.2	28	27
Thursday		24	175	6	3	7	19	0	41	11.2	23	27
Friday		25	176	6	8	7	19	0	41	12.5	23	20
Saturday	••	26	177	6	8	7	19	0	41	18.6	23	25
Sunday	••	27	178	6	4	7	19	0	41	0 14.5	23	22
Monday		28	179	8	4	7	20	0	42	15.5	28	20
Tuesday		29	180	6	4	7	20	0	42	16.5	23	18
Wednesday		80	181	6	5	7	20	. 0	42	17.5	23	15

Phases of the Moon-JULY 31 Days.

《 Last Quarter4th, 11h. 24·2m. A.M. ● New Moon12th, 3h. 0·8m. P.M. Perigee24th, 10·9h....A.M. D First Quarter....20th, 2h. 38 8m. A.M. O Full Moon.....26th, 5h. 41 0m. P.M. Apogee8th, 4 3h.....P.M.

		Day of	Day of		1	Mean	Time.			Moon's		ın's dina
Day of the W	eek.	Month.	the Year.		ırise. 		nset. . M.		rue oon.	Age at Noon.	at I	ion Icar con,
				H.	м.	H.	H.	н	M.	D,	,	N.
Thursday		1	182	6	54	7	20	0	.W. 42	18.5	23	11
Friday	••	2	183	6	5	7	20	0	42	19.5	23	8
Saturday	••	3	184	6	6	7	20	0	43	20.5	23	8
Sunday	••	4	185	6	6	7	20	0	43	€ 21.5	22	59
Monday	••	5	186	6	6	7	20	0	43	22.5	22	54
Tuesday		6	187	в	7	7	20	0	43	23 · 5	22	48
Wednesday		7	188	в	7	7	20	0	43	24.5	22	48
Thursday .		8	189	в	7	7	20	0	43	25.5	22	36
Friday		9	190	6	8	7	20	0	44	26 5	22	30
Saturday		10	191	8	8	7	20	0	44	27.8	22	23
Sunday		11	192	в	8	7	20	0	44	28.5	22	16
Monday		12	193	6	8	7	20	0	44	● 29.5	22	8
Tuesday		13	194	6	8	7	20	0	44	0.8	22	0
Wednesday		14	195	6	9	7	20	0	44	1.9	21	51
Thursday		15	196	6	9	7	19	0	44	2.9	21	42
Friday		16	197	6	9	7	19	0	44	8.9	21	38
Saturday		17	198	6	10	7	19	0	45	4.9	21	23
Sunday		18	199	8	10	7	19	0	45	5.9	21	14
Monday		19	200	8	10	7	19	0	45	6.8	21	8
Tuesday		20	201	в	11	7	18	0	45	⊋ 7-9	20	53
Wednesday		21	202	6	11	7	18	0	45	8.9	20	41
Thursday	••	22	203	6	12	7	18	0	45	9.9	20	30
Friday		23	204	8	12	7	18	0	45	10.9	20	17
Baturday		24	205	6	12	7	17	0	45	11.9	20	6
Sunday		25	206	6	13	7	17	0	45	12.9	19	54
Monday		26	207	6	18	7	17	0	45	O 13·9	19	41
Tuesday		27	208	6	13	7	17	0	45	14.9	19	28
Wednesday		28	209	6	14	7	16	0	45	15.9	19	15
Thursday		29	210	6	14	7	16	0	45	16.9	19	1
Friday		80	211	6	14	7	16	0	45	17.9	18	47
Saturday		81	212	6	15	7	15	0	45	18.9	18	33

Phases of the Moon-AUGUST 31 Days.

Last Quarter ... 3rd, 2h. 57 3m. A.M.
 New Moon ... 11th, 4h. 22 4m. F.M.
 Furgeo ... 20th, 7 7h. ... 7M.
 Full Moon ... 25th, 3h. 10 5m. A.M.
 Apogeo ... 5th, 8 1th. ... F.M.

		Day of	Day of		31	ean T	ime.			Moon's	Su Dec	n's lins
Day of the Wee	k.	the Month.	the Year.		rise. M.		nset. M.	Tr No		Age at Noon.	at N	
		1		H.	H.	н.	¥.	P.	M.	D.	.1	Ň,
Sunday	••	1	218	6	15	7	15	0,,	45	19.9	18	1
Monday		2	214	6	15	7	14	0	45	20 9	18	
Tuesday		8	215	8	16	7	14	0	45	€ 21.9	17	4
Wednesday		4	216	6	16	7	13	0	45	22.9	17	3
Thursday	••	5	217	6	16	7	18	0	45	23.9	17	1
Friday	••	6	218	6	17	7	12	0	45	24.9	17	
Baturday		7	219	6	17	7	12	0	44	25 9	16	4
Sunday	٠.	8	220	6	17	7	11	0	44	26.9	16	2
Monday		9	221	6	18	7	11	0	44	27.9	16	3
Tuesday *		10	222	6	18	7	10	0	44	28-9	15	5
Wednesday	••	11	223	6	18	7	9	0	44	● 0.8	15	8
Thursday		12	224	6	19	7	9	0	44	1.8	15	1
Friday		13	225	6	19	7	8	0	44	2.3	15	
Saturday		14	226	6	19	7	8	0	43	8.8	14	4
Sunday	٠.	15	227	6	20	7	7	0	43	4.8	14	2
Monday		,16	228	8	20	7	6	0	43	5.8	14	
Tuesday		17	229	6	20	7	6	0	43	6.8	13	4
Wednesday	••	18	230	6	20	7	5	0	48	⊅ 7∙8	13	2
Thursday	••	19	231	6	21	7	4	0	43	8.8	13	
Friday	••	20	232	6	21	7	4	0	42	9-8	12	4
Saturday	••	1	233	6	21	7	8	0	42	10.3	12	2
Sunday	••	22	234	6	21	7	2	0	42	11.8	12	
Monday	٠.	1	235	6	21	7	1	0	42	12.8	11	4
Tuesday	• •	24	236	6	22	7	1	0	41	13.8	11	2
Wednesday	••	2.5	237	6	22	7	0	0	41	0 14.8	11	
Thursday	;	1	238	6	12	6	59	0	41	15.3	10	4
Friday	••	27	239	6	22	6	69	0	40	16.8	10	2
Saturday	••	1	240	6	22	6	58	0	40	17-3	10	
Sunday	••	1	241	6	23	6	57	0	40	18.8	9	4
Monday	••	30	242	6	23	6	56	0	89	19.3	9	2
Tuesday		81	243	6	23	8	55	0	89	20.8	9	

Phases of the Moon-SEPTEMBER 30 Days.

(Last Quarter1st, 8h. 26.6m. P.M. ● New Moon9th, 4h. 22 7m. P.M.

Perigee14th, 8.8h. P.M.

<u> </u>		Day of	Day of	1	λ	Ican '	Cime.			Moon's		un's lina
Day of the We	ek.	the Month.	the Year.		orise. .H.		nset. .M.	No.	rue oon.	Age at Noon.	at N	ienn on.
		,		Ħ.	ж.	н.	¥.	P.	H.	D.	,1	٧. ,
Wednesday		1	244	8	24	6	55	0	39	€ 21.3	8	41
Thursday		2	245	6	24	6	54	0	39	22.8	8	19
Friday		8	246	6	24	6	53	0	88	23 · 8	7	57
Saturday	••	4	247	6	24	6	52	0	38	24.3	5	85
Sunday		5	248	6	24	6	51	0	88	25 · 3	7	13
Monday		6_	249	6	24	6	50	0	87	26.3	6	51
Tuesday		7	250	6	25	6	50	0	37	27.3	6	28
Wednesday		8	251	6	25	В	49	0	87	28⋅3	6	6
Thursday		9	252	6	25	6	48	0	86	29.3	5	44
Friday		10	253	6	25	6	47	0	36 L	0.4	5	21
Saturday		11	254	6	25	6	46	0	36	1.7	4	38
Sunday		12	255	6	25	6	45	0	85	2.7	4	35
Monday		18	256	6	26	6	44	. 0	85	8.7	4	18
Tuesday	••	14	257	6	26	6	43	0	85	4.7	8	50
Wednesda y		15	258	6	26	6	48	0	84	5.7	8	27
Thursday		16	259	6	26	6	42	0	84	> 6.7	8	4
Friday .	••	17	260	6	26	6	41	0	84	7.7	2	40
Saturday		18	261	6	27	6	40	0	88	8.7	2	17
Sunday		19	262	6	27	6	89	0	88	9.7	1	54
Monday		20	268	6	27	6	88	0	86	10.7	1	31
Tuesday		21	264	6	27	6	87	0	82	11.7	1	7
Wednesday		22	265	6	27	6	86	0	81	12.7	0	44
Thursday		23	266	6	27	6	36	0	81	O 13·7	0	21
Friday		24	267	6	28	6	85	0	81	14.7	٥,	12
Saturday		25	268	6	28	6	84	0	81	15.7	0	26
Sunday		26	269	6	28	6	33	0	31	16.7	0	49
Monday	••	27	270	8	28	6	82	0	30	17.7	1	13
Tuesday		28	271	6	28	-6	31	0.	30	18.7	1	86
Wednesday		29	272	6	29	6	80	0	29	19-7	2	0
Thursday		80	273	6	29	В	29	0	29	20.7	2	28
		f		!								

Phases of the Moon-OCTOBER 31 Days.

		Day of	Day of	1	- 1	Mean '	Time,			Moon's	Dec	m's
Day of the Wee	k.	the Month.	the Year.		urise. 		ıset. M.	Tr	ie on.	Age at Noon.	at ?	ion
			,	н.	ж.	н.	M.	Н. Р.	м.	D.		3.
riday	••	1	274	6	29	6	29	0.	29	€ 21.7	2	5
Saturday		2	275	6	29	6	28	0	28	22.7	3	1
Sunday	••	3	276	6	29	6	27	0	28	23.7	3	4
Monday		4	277	6	30	6	26	0	28	24.7	4	
Tuesday		5	278	6	30	6	25	0	28	25 · 7	4	2
Wednesday		6	279	6	30	6	24	0	27	26.7	4	4
Thursday		7	280	6	30	6	23	0	27	27 · 7	5	1
Friday		8	281	6	30	8	23	0	27	28.7	5	3
Baturday		IJ	282	8	31	6	22	0	26	● 0.4	5	5
Sunday		10	283	6	31	6	21	0	26	1.4	6	2
Monday		11	284	6	31	6	20	0	26	2.4	6	4
Tuesday		12	285	6	31	6	19	0	26	3.4	7	
Wednesday		13	286	8	31	6	19	0	25	4.4	7	2
Thursday		14	287	6	32	6	18	0	25	5.4	7	5
Friday		15	288	6	32	6	17	0	25	⊅ 6-4	8	1
Saturday	٠.	. 16	289	6	33	6	16	0	25	7.4	8	3
Sunday		17	290	6	33	6	16	0	24	8.4	8	5
Monday		18	291	6	33	6	15	0	24	9.4	0	9
Tuesday		19	292	6	34	6	14	0	24	10.4	9	4
Wednesday		20	293	6	34	6	14	0	24	11.4	10	
Thursday		21	294	6	34	6	13	0	24	12.4	10	2
Friday		92	295	6	34	6	12	0	23	13.4	10	4
Saturday		28	298	6	85	G.	12	0	23	0 14.4	11	
Sunday		. 21	297	6	35	6	11	0	23	15.4	11	2
Monday		25	298	6	36	6	10	0	23	16.4	11	5
Tuesday		26	299	6	36	6	10	0	23	17-4	12	1
Wednesday		27	300	6	36	6	9	0	23	18:4	12	3
Thursday		28	301	6	37	6	Ø	U	23	19-4	12	5
Friday		- 29	302	G	37	6	8	0	23	20 · 4	13	1
Saturday		30	303	6	37	6	7	0	23	21 · 4	13	3
Sunday		31	304	U	38	6	7	0	22	€ 22.4	13	5

Phases of the Moon-NOVEMBER 30 Days.

		Day of	Day of]_ [1	Mean	Time.			Moon's		un's clina-
Day of the W	eek.	the Month.	the Year.		nrise. A.M.		nset. .w.		rue oon.	Age at Noon.	at	ion Mean oon,
				н.	¥.	н.	M.	H.	м. .м.	D.		s.,
Monday		1	305	в	38	6	6	0	22	23.4	14	11
Tuesday		2	806	6	89	6	6	0	22	24 · 4	14	31
Wednesday		3	307	6	39	6	5	0	22	25 '4	14	50
Thursday	••	4	808	6	40	6	5	0	22	26.4	15	19
Friday		5	809	6	40	8	4	o	22	27.4	15	27
Saturday	••	6	310	6	41	6	-4	0	22	28.4	15	46
Sunday		7	311	6	41	6	4	0	22	● 0.0	16	4
Monday		8	312	6	42	6	4	0	22	1.0	16	21
Tuesday		9	313	6	42	6	3	0	23	2.0	16	39
Wednesday		10	314	6	43	6	3	0	23	3.0	16	56
Thursday ?		11	315	6	43	6	3	0	23	4.0	17	13
Friday		12	316	ß	44	6	2	0	23 .	5.0	17	30
Saturday		13	317	6	44	6	2	0	23	6.0	17	46
Sunday		14	518	6	45	6	1	0	23	▶ 7.0	18	2
Monday		15	319	6	45	6	1	0	23	8.0	18	18
Tuesday	••	16	320	6	46	6	1	0	23	9.0	18	33
Wednesday		17	321	6	46	6	1	0	24	10.0	18	48
Thursday		18	322	6	47	6	0	0	24	11.0	19	3
Friday		19	323	6	48	6	0	0	24	12.0	19	18
Saturday		20	324	6	48	6	0	0	24	13.0	19	32
Sunday		21	325	6	49	6	0	0	24	O 14·0	19	45
Monday		22	326	6	49	6	0	0	25	15.0	i9	59
Tuesday		23	327	ß	50	U	0	0	25	16.0	20	11
Wednesday	٠.	24	328	6	51	6	0	0	25	17.0	20	24
Thursday		25	329	6	51	6	0	0	25	18.0	20	37
Friday		26	330	ช	52	6	0	0	26	10.0	20	48
Saturday		27	331	6	52	6	0	0	26	20.0	21	0
Sunday		28	332	6	53	6	U	0	26	21.0	21	11
Monday		29	333	6	54	6	0	0	27	55.0	21	22
Tuesday		30	334	6	54	6	0	0	27	€ 53.0	21	32

Phases of the Moon-DECEMBER 31 Days.

 New Moon
 .6th, 11h. 33 7m. P.M.

 First Quarter
 .13th, 5h. 8 4m. P.M.

 Perigee
 .7th, 6 8h. A.M.

 O Full Moon
 .21st, 6h. 22 8m. P.M.

 Last Quarter
 .30th, 6h. 23 8m. P.M.

 Apogee
 .21st, 6 1h. A.M.

Day of the Week.		Day of	Day of the Year.	Mean Time.						Moon's	Sun's Declina-	
		the Month.		Sunrise.		Sunset. P.M.		True Noon.		Age at Noon.	at Mean Noon.	
	-			н.	M.	H.	¥.	H	ж.	D.		š.,
Wednesday		1	885	В	55	6	0	or	N. 27	24.0	21	89
Thursday		2	836	6	55	6	0	0	28	25.0	21	49
Friday		8	387	6	56	6	0	0	28	26.0	21	58
Saturday		4	338	6	67	6	0	0	29	27.0	22	6
Sunday		5	339	8	57	6	0	0	29	28.0	22	14
Monday		6	340	6	58	6	1	0	29	● 29.0	22	22
Tuesday		7	341		59	6	1	0	29	0.2	22	3
Wednesday		8	842	6	59	6	1	0	80	1.2	22	87
Thursday		9	343	7	0	6	1	-0	80	2.2	22	44
Friday		10	344	7	0	6	2	0	81	8.2	22	50
Saturday	٠.	11	845	7	1	6	2	0	81	4-5	22	55
Sunday		12	346	7	2	6	2	0	32	5.5	23	(
Monday		18	847	7	2	6	8	0	82	> 6.2	23	į
Tuesday		14	848	7	8	6	3	0	88	7.5	23	10
Wednesday		15	349	7	3	6	8	0	88	8.2	23	18
Thursday	٠.	16	850	7	4	6	4	0	84	9.2	23	17
Friday		17	351	7	4	6	4	0	84	10.2	23	20
Saturday		18	352	7	5	6	5	0	85	11.2	23	2
Sunday		19	353	7	5	6	5	0	35	12.5	23	24
Monday		20	354	7	6	3	6	0	86	18.2	23	2
Tuesday	٠.	21	855	7	7	3	6	0	86	O 14·5	23	26
Wednesday		22	856	7	7	3	6	0	37	15.2	23	2
Thursday	٠.,	23	857	7	8	. ,	7	0	87	16.5	23	27
Friday		24	358	7	8	3	7	0	38	17.5	23	27
Saturday	••	25	859	7	9	6	8	0	38	18.2	23	26
Sunday		26	860	7	9	6	9	. 0	89	19.5	23	21
Monday	••	27	861	7	10	6	9	0	89	20.2	28	2:
Fuesday		28	362	7	10	6	10	0	40	21.2	23	20
Wednesday		29	863	7	11	в	10	0	40	22.5	23	18
Thursday		80	864	7	11	6	11	0	41	€ 23.5	23	14
friday		81	865	7	12	6	11	0	41	21.5	23	. 11

CAI	'ENI	(A)	R FOR 1916.					
Ja	nuary.	July.						
S 2 M 3 Tu 4 W 5 Th 6	10 17 2 11 18 2 12 19 2 13 20 2	3 30 4 31 5 6	M 3 10 17 24 3 Tu 4 11 18 25 W 5 12 19 26 Th 6 13 20 27					
F 7 S 1 8	14 21 2	8	F 7 14 21 28 . S 1 8 15 22 29 .					
Fet	ruary.	£	August.					
M 6 M 7 Tu 1 8	13 20 2 14 21 2		M 6 13 20 27 M 7 14 21 28 Tu 1 8 15 22 29					
Tu 1 8 W 2 9 Th 3 10	15 22 2 16 23 17 24	.	Tu 1 8 15 22 29 W 2 9 16 23 30 Th 3 10 17 24 31					
F 4 11 S 5 12	18 25		F 4 11 18 25 5 12 19 26					
m	arch.		September.					
3 5 M 6	12 19 2 13 20 2	7	M 3 10 17 24 M 4 11 18 25					
Tu 7 W 1 8 Th 2 9	14 21 21 15 22 20 16 23 30)	Tu 5 12 19 26 W 6 13 20 27 Th 7 14 21 28					
F 3 10 S 4 11	17 24 31 18 25	· •••	Th 7 14 21 28 F 1 8 15 22 29 S 2 9 16 23 30					
Я	pril.		October.					
S 2 M 3	9 16 23		M 2 9 16 23 30					
Tu 4 W 5 Th 6	11 18 25 12 19 26 13 20 27		Tu 3 10 17 24 31 W 4 11 18 25 Th 5 12 19 26					
F 7 S 1 8	14 21 28 15 22 29	·	F 5 12 19 26 5 7 14 21 28					
	ay.		Rovember.					
S 7 M 1 8 Tu 2 9	14 21 28 15 22 29 16 23 30		M 5 12 19 26 M 6 13 20 27 Tu 7 14 21 28					
W 3 10 Th 4 11	17 24 31 18 25	•••	W 1 8 15 22 29 Th 2 9 16 23 30					
F 5 12 S 6 13	19 26		F 3 10 17 24 S 4 11 18 25					
A	me.		December.					
S 4 M 5 Tu 6	11 18 25 12 19 26 13 20 27		M 3 10 17 24 31 M 4 11 18 25 Tu 5 12 19 26					
W 7 Th 1 8	13 20 27 14 21 28 15 22 29	•••	W 6 13 20 27 Th 7 14 21 28					
F 2 9 S 3 10	16 23 30 17 24		F 1 8 15 22 29 S 2 9 16 23 30					



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India in 1914

In the introduction to the first issue of the Indian Year Book, published last year, the Editor, after calling attention to the new forces which were shaking this age-worn land, said "While India is still quick with new ideas and ambitions, and anarchy will continue to be spora-dic, she is confident of the future of the country within the Empire and under the Crown."

This expression of opinion was strongly criti-

cised at the time. Ever since the war between Russia and Japan, kindling fresh ideas in the peoples of Asia, and the Viceroyalty of Lord Curzon, which stirred the dry bones of India, the internal situation in the country has been one which baffled all save the most resolute optimists. There was the rise in importance optimists. There was the rise in importance of the educated middle class—the class educated on English principles, saturated with English literature and its ideas of liberty, which is inevitably a class nourishing the desire for the expansion of Indian politic, and administration. Behind this constitutional agitation there was the malignant spectre of political crime, which first appearing in Bengal really had its origin in the Bombay Deccan, and gradually spread to Madras and the Punjab. Confronted by these complexities, and oppressed by the mag-nitude of the difficulties besetting the course of liberalism in a country like India, it is not per-haps altogether surprising if some whose ideas naps attogether surprising it some whose ideas of Indian polity were based on patriarchical principles confused both sides of this political ferment, and could not distinguish between loyal and disloyal unrest. The real answer was given when the great war broke out.

At first, seeing these events as through a

known that Great Britain had decided to make the invasion of Belgium a casus belli and to strike a blow for the preservation of the rights of the lesser States and peoples, India famed with an amazing burst of feeling in support of The swords of the Indian Princes the Empire. leapt from their scabbards, and one and all leapt from their scabbards, and one and all immediately offered their forces, their funds and themselves for the service of the Raj. The martial races of the land rejoiced at the prospect of service for the Empire wherever a blow had to be struck, whether in Europe, in Africa, or in the Persian Gulf. The educated middle classes responded as generously to the call of Empire, and in public meetings held in every great town pledged themselves to the support of the war and unloosed their purse strings to assist all sufferers. The sentiment of all classes in India was summed up in the simple words of one of the Indian Chiefs:—" What orders has my King for me and my troops?"

The spectre of internal trouble, which has bemused certain people in and out of India, vanished the moment there was manifest this need for India's co-operation. The Viceroy informed His Majesty's Ministers that India would devote the last man and the last gun to his service. And it being manifest that the maintenance of order might be left to the ordinary machinery, supported by the goodwill of the overwhelming mass of the people, the finest fighting units of the Indian Army, Horse, Foot and Guns, British and Indian, poured in a steady of a New India; we shall cross that stream to France, to Egypt and to East Africa. Indian publicists, speaking for their articulate more than ever determined to justify it.

countrymen, asked that India might be allowed to share in the financial burdens of the war. and the Viceroy accepting a motion in the Legislative Council to this effect, agreed so far that the actual pay of the regiments em-ployed will still be borne by the Indian exchequer instead of being paid by the British Treasury. Only one thing was needed to seal the universal fervour-it was that the Indian troops should actually take their place in the fighting line on the battlefields of Europe. When it was offici-ally announced that these fine regiments would proceed to France, then it was felt that indeed India was an inseparable part of the British Empire.

The causes underlying this rally to the flag demand some little analysis. How, it may be asked, is it to be reconciled with the undoubted unrest which existed in India, and with the anarchy, which persists and will persist? There is perhaps no modern movement which has been so grievously misunderstood as that which is generically known as Ind an unrest. Rightly is generically known as int an unrest, angular understood, the unrest is the finest product of British rule; it is standing proof that so far from that rule having imposed on India a stolid barrier to progress, it has implanted and given growth to the divine discontent which is at the root of all human progress. Attention has been concentrated too much on the maleficent aspect of the unrest—on the violent political agitation accompanied by political crime. Yet close observers have seen that this unrest contains the seed bed of progress; in one of the official reports it is written " No one dare say that the new spirit has not brought to India giass carkly, indian opinion failed to appreciate an amount of good which vastly outweighs the nature of the struggle into which Great the evil." The war has enabled us to see these Britain was forced. But as soon as it was activities in true perspective. While the entry of the see these theory that Great Britain has forced. activities in true perspective. Whilst we might have expected the Ruling Princes to rejoice at the prospect of lending their ad to the Raj, and the martial races joyous at drawing the sword which has so long rusted in the scabbard. rightly to understand this wonderful demonstration of solidarity with the Empire we must see too that India's participation in the war is enthus astically acclaimed by the educated bourgeoiste who, in ordinary circumstances are naturally most critical of the Administration. The reason for this is instructive. Something no doubt is due to the cause of the war. The no doubt is due to the cause of the war. The educated Indian is liberal in his sympathies and the rights of the smaller peoples are very dear to him. But the foundation of this sentiment is the conviction that the real progress of India is bound up with its association with the British Empire.

The close of the year 1914 then finds us at the opening of a new era in the history of India. None dare question that she is loyal to the core and at the core to the British connection. Henceforth all Indian questions of polity must be approached from this standpoint. None but the blind will maintain that this does not open up questions of the greatest moment—questions which will have to be answered in a spirit of the most courageous statesmanship and with resolute audacity. But the answer to be given is one consonant with the British character, which is instinct with enlightened liberalism. We stand then on the threshold of a New India; we shall cross that threshold with pride in the patriotism our rule has wrought.

The History of India in Outline.

and the briefest summary must suffer from the same defect. Even a wholesale acceptance as history of mythology, tradition, and folklore will not make good, though it makes picturesque, the many gaps that exist in the early history of India: and, though the labours of modern geographers and archeologists have been amazingly fruitful, it cannot be expected that these gaps will ever be filled to any appreciable extent. Approximate accuracy in chronology and an outline of dynastic facts are all that the student can look for up to the time of Alexander, though the briefest excursion into the by-ways of history will reveal to him many alluring and mysterious fields for speculation. There are, for example, to this day castes that believe they sprang originally from the loins of a being who landed "from an impossible boat on the shores of a highly improbable sea "; and the great epic poems contain plentiful state-ments equally difficult of reconciliation with modern notions of history as a science. But from the Jataka stories and the Puranas, much valuable information is to be obtained, and, for the benefit of those unable to go to these and other original sources, it has been

distilled by a number of writers.

The orthodox Hindu begins the political The orthodox Hindu begins the pointed history of India more than 3000 years before Christ, with the war waged on the banks of the Jumna between the sons of Kuru and the sons of Radu; but the modern critic prefers to omit several of those remote centuries and to take 600 B. C., or thereabouts, as his starting point. At that time much of the country was covered with forest, but the Aryan races, who had entered India from the north, had established in parts a form of civilization far superior to that of the aboriginal savages, and to this day there survive cities, like Benares, founded by those invaders. In like manner the Dravidian invaders from an unknown land, who overran the Deccan and the Southern part of the Peninsula, crushed the aborigines, and, at a much later period, were themselves subdued by the Aryans. Of these two civilizing forces, the Aryan is the better known, and of the Aryan kingdoms the first of which there is authentic record is that of Magadha, or Bihar, on the Ganges. It was in, or near, this powerful kingdom that Jainism and Buddhism had their origin, and the fifth King of Magadha, Bimbisara by name, was the friend and patron of Gautama Buddha. The King mentioned of Gautama Buudna. The king mentioned was a contemporary of Darius, autocrat of Persia (521 to 485 B. C.) who annexed the Indus valley and formed from his conquest an Indian satrapy which paid as tribut the equivalent of about one million sterling. Detailed history, however, does not become possible until the invasion of Alexander in 326B.C.

Alexander the Great.

That great soldier had crossed the Hindu Kush in the previous year and had captured Aornos, In the previous year and mad captured Aornos, excavations now being carried on in the Lorentz on the Upper Indus. In the spring of 328 he of his palace may throw yet more light on his crossed the river at Ohind, received the submission of the King of Taxila, and marched sagainst Porus who ruled the fertile country vigin there had been signs of new forces at work between the rivers Hydaspes (Jhelum) and on the borderland of India, where the inde-

No history of India can be proportionate, Akesines (Chenab). The Macedonian carried the briefest summary must suffer from the all before him, defeating Porus at the battle of the Hydaspes, and crossing the Chenab and Ravi. But at the River Hyphasis (Bias) his . weary troops mutinied, and Alexander was forced to turn back and retire to the Jhelum where a ficet to sail down the rivers to the sca was nearly ready. The wonderful story of Alexander's march through Mekran and Persia to Babylon, and of the voyage of Nearchus up the Persian Gulf is the climax to the narrative of the invasion but is not part of the history of India, Alexander had stayed nineteen months in India and left behind him officers to carry on the Government of the kingdoms he had conquered: but his death at Babylon, in 323, destroyed the fruits of what has to be regarded as nothing but a brilliant raid, and within two years his successors were obliged to leave the Indian provinces, heavily scarred by war but not hellenized.

The leader of the revolt against Alexander's generals was a young Hindu, Chandragupta, who was an illegitimate member of the Royal Family of Magadha. He dethroned the ruler of that kingdom, and became so powerful that he is said to have been able to place 600,000 troops in the field against Seleucus, to whom Babylon had passed on the death of Alexander. This was too formidable an opposition to be faced, and a treaty of peace was concluded between the Syrian and Indian monarchs which left the atter the first paramount Sovereign of India (321 B. C.) with his capital at Pataliputra, the modern Patna and Bankipore. Of Chandragupta's court and administration a very full account is preserved in the fragments that remain of the history compiled by Megnsthenes, the ambassador sent to India by Seleticus. His memorable reign ended in 297 B. C. when he was succeeded by his son Bindusara, who in his turn was succeeded by Asoka (269—231 B. C.) who recorded the events of his reign in numerous inscriptions. This king, in an unusually bloody war, added to his dominions the kingdom of Kalinga (the Northern Circars) and then becoming a convert to Buddhism, resolved for the future to abstain from conquest by force of arms. The consequences of the conversion of Asoka were amazing. He was not intolerant of other religions, and did not endeavour to force his creed on his "children". But he initiated measures for the propagation of his doctrine with the result that "Buddhism, which had hitherto been a merely local sect in the valley of the Ganges, was transformed into one of the greatest religions of the world-the greatest, probably, if measured by the number of adherents. This is Asoka's claim to be remembered; this it is which makes his reign an epoch, not only in the history of India, but in that of the world." The wording of his edicts reveal him as a great king as well as a great missionary, and it is to be hoped that the excavations now being carried on in the ruins of his palace may throw yet more light on his character and times. On his death the Maurya kingdom fell to pleces. Even during his reign there had been signs of new forces at work pendent kingdoms of Bactria and Parthia had been formed, and subsequent to it there were frequent Greek raids into India. The Greeks in Bactria, however, could not withstand the overwhelming force of the westward migration of the Yueh-chi horde, which, in the first century A. D., also ousted the Indo-Parthian kings from Afshanistan and North-Western India.

The first of these Yueh-chi kings to annex a part of India was Kadphises II (A. D. 85—125), who had been defeated in a war with China, but crossed the Indus and consolidated his power eastward as far as Benares. His son Kanishka (whose date is much disputed) left a name which to Buddhists stands second only to that of Asoka. He greatly extended the boundaries of his empire in the North, and made Peshawar his capital. Under him the power of the Kushan clan of the Yueh-chi reached its zenith and did not begin to decay until the end of the second century, concurrently with the rise in middle India of the Andhra dynasty which constructed the Amaravati stupa, "one of the most elaborate and precious monuments of piety ever assed by man."

The Gupta Dynasty.

Early in the fourth century there arose, at Pataliputra, the Gupta dynasty which proved of great importance. Its founder was a local chief, his son Samudragupta, who ruled for some fifty years from A.D. 326, was a king of the greatest distinction. His aim of subduing all India was not indeed fulfilled but he was able to exact tribute from the kingdoms of the South and even from Ceylon, and, in addition to being a warrior, he was a patron of the arts and of Sanskrit literature. The rule of his son, Chandragupta, was equally distinguished and is commemorated in an inscription on the famous iron pillar near Delhi, as well as in the writings of the Chinese pilgrim Fa-hien who pays a great tribute to the equitable administration of the country. It was not until the middle of the fifth century that the fortunes of the Gupta dynasty began to wane—in face of the onset of the White Huns from Central Asia—and by 480 the dynasty had disappeared. The following century all over India was one of great confusion, apparently marked only by the rise and fall of petty kingdoms, until a monarch arose, in A.D. 606, capable of consolidating an Empire. This was the Emperor Harsha who, from Thansar near Ambala, conquered Northern India and extended bis territory South to the Nerbudda. Imitating Asoka in many ways, this Emperor yet "felt no embarrassment in paying adoration turn to Siva, the Sun, and Buddha at a great public ceremonial." Of his times a graphic picture has been handed down in the work of a Chinese "Master of the Law." Hiuen Tsiang by name. Harsha was the last native paramount sovereign of Northern India; on his death in 648 his throne was usurped by a Minister, whose treacherous conduct towards an embassy from China was quickly avenged, and the kingdom so laboriously established lapsed into a state of internecine strife which lasted for a century and a half:

The Andhras and Rajputs.

In the meantime in Southern India the Andhras had attained to great prosperity and

carried on a considerable trade with Greece, Egypt and Rome, as well as with the East. Their domination ended in the fifth century A.D. and a number of new dynasties, of which the Pallavas were the most important, began to appear. The Pallavas made way in turn for the Chalukyas, who for two centuries re-mained the most important Deccan dynastyt one branch uniting with the Cholas. But the fortunes of the Southern dynasties are so involved, and in many cases so little known, that to recount them briefly is impossible. Few names of note stand out from the record. except those of Vikramaditya (11th century) and a few of the later Hindu rulers who made a stand against the growing power of Islam, of the rise of which an account is given below. In fact the history of mediæval India is singularly devoid of unity. Northern India was in a state of chaos from about 650 to 950 A.D. not unlike that which prevailed in Europe of that time, and materials for the history of these centuries are very scanty. In the absence of any powerful rulers the jungle began to gain back what had been wrested from it: ancient capitals fell into ruins from which in some cases they have not even yet been disturbed, and the aborigines and various foreign tribes began to assert themselves so successfully that the Aryan element was chiefly confined to the Doab and the Eastern Punjab. It is not therefore so much for the political as for the religious and social history of this anarchical period that one must look. And the greatest event—if a slow process may be called an event—of the middle ages was the transition from tribe to caste, the final disappearance of the old four-fold division of Brahmans, Kshattriyas, Vaisyas, and Sudras, and the formation of the new division of pure and impure largely resting upon a classification of occupations. But this social change was only a part of the development of the Hindu religion into a form which would include in its embrace the many barbarians and foreigners in the country who were outside it. The great political event of the period was the rise of the Rajputs as warriors in the place of the Kshattriyas. Their origin is obscure but they appeared in the 8th century and spread, from their two original homes in Rajputana and Oudh, into the Punjab, Kashmir, and the Central Himalavas, assimilating a number of fighting clans myas, assummating a number of fighting clais and binding them together with a common code. At this time Kashmir was a small kingdom which exercised an influence on India wholly disproportionate to its size. The only other kingdom of importance was that of Kanaul—in the Doab and Southern Oudh which still retained some of the power to which it had reached in the days of Harsha, and of which the renown extended to China and Arabia.

With the end of the period of anarchy, the political history of India centres round the Rajputs. One clan founded the kingdom of Gujarat, another held Malwa, another (the Chauhans) founded a kingdom of which Ajmer was the capital, and so on. Kananj fell into the hands of the Rathors (cr. 1040 A.D.) and the dynasty then founded by that branch of the Gaharwars of Benares became one of the most famous in India. Later in the same century the Chauhans were united, and by

1163 one of them could boast that he had conquered all the country from the Vindhyas to the Himalavas, including Delhi already a fortress a hundred years old. The son of this con-queror was Prithwi Raj, the champion of the Hindus against the Mahomedans. With his death in battle (1192) ends the golden age of the new civilization that had been evolved out of chaos; and of the greatness of that age there is a splendid memorial in the temples and forts of the Rajput states and in the two great philosophical systems of Sankaracharya (ninth century) and Ramanuja (twelfth cen-tury). The triumph of Hinduism had been achieved, it must be added, at the expense of Buddhism, which survived only in Magadha at the time of the Mahomedan conquest and speedily disappeared there before the new faith.

Mahomedan India.

The wave of Mahomedan invaders that eventually swept over the country first touched rections swep over the county and the relationship of the first real contact was in the tenth century when a Turkish slave of a Persian ruler founded a kingdom at Ghazni, between Rabul and a kingdom at Ghazni, between Rabul and Kandahar. A descendant of his, Mahmud (967-1030) made repeated raids into the heart of India, capturing places so far apart as Multan, Kanauj, Gwalior, and Somnath in Kathiawar, but permanently occupying only a part of the Punjab. Enduring Mahomedan rule was not established until the end of the twelfth century, by which time, from the little territory of Ghor, there had arisen one Mahomed Ghori capable of carving out a kingdom stretching from Peshawar to the Bay of Bengal. Prithwi Raj, the Chauhan ruler of Delhi and Ajmer, made a brave stand against, and once defeated, one of the armies of this ruler, but defeated, one of the armies of this ruler, but was himself defeated in the following year. Mahomed Ghori was murdered at Lahore (1208) and his vast kingdom, which had ben governed by satraps, was split up into what were practically independent sovereignties. Of these satraps, Qutb-ud-din, the slave ruler of Delhi and Lahore, was the most faraous, and is remembered by the great mosque health the state of the property of the pro and is remembered by the great mosque he built near the modern Delhi. Between his rule and that of the Mughais, which began in 1526, only a few of the many Kings who governed and fought and built beautiful buildings, stand out with distinction. One of these was Ala-ud-din (1298-1316), whose many expeditions to the south much weakened the Hindu Klngs, and who proved himself to be a capable administrator. Another was Firoz. capable administrator. Another was frigorous Shah, of the house of Tughlaq, whose administration was in many respects admirable, but which ended, on his abdication, in confusion. In the reign of his auccessor, Mahmud (1398-1413), the kingdom of Delhi went to pieces and India was for seven months at the mercy of the Turkish conqueror Taimur. It was the end of the afteenth century before the kingdom, under Sikandar Lodi, began to recover. His son. Ibrahim, still further extended the kingdom that had been recreated, but was defeated by Babar. King of Kabul, at Panipat, near Delhi, in 1526, and there was then established in India the Mughal dynasty.

were of comparative unimportance, though some great men appeared among them. In Gujarat, for example, Ahmad Shah, the founder of Ahmedabad, showed himself a good ruler and builder as well as a good soldier, though his grandson, Mahmud Shah Begara, was a greater ruler—acquiring fame at sea as well as on land. In the South various kings of the Bahmani dynasty made names for themselves, especially in the long wars they waged on the new Hindu kingdom that had arlsen which had its capital at Vijayanagar. Of importance also was Adil Khan, a Turk, who founded (1490) the Bijapur dynasty of Adil Shahis. It was one of his successors who crushed the Vijayanagar dynasty, and built the great mosque for which Bijapur is famous.

The Mughal Empire.

As one draws near to modern times it becomes impossible to present anything like a coherent and consecutive account of the growth of India as a whole. Detached threads in the story have to be picked up one by one and followed to their ending, and although the sixteenth century saw the first European settlements in India, it will be convenient here to continue the narrative of Mahomedan India almost to the end of the Mughal Empire. How Babar gained Delhi has already been told. His son, Humayun, greatly extended his kingdom, but was eventually defeated (1540) and driven into exile by Sher Khan, an Afghan of great capabilities, whose short reign ended in 1545. The Sur dynasty thus founded by Sher Khan lasted another ten years when Humayun having snatched Kabul from one of his brothers, was strong cnough to win back part of his old king-dom. When Humayun died (1556) his eldest son, Akbar, was only 13 years old and was confronted by many rivals. Nor was Akbar well served, but his career of conquest was almost uninterrupted and by 1594 the whole of India North of the Nerbudda had bowed to his authority, and he subsequently entered the Decean and captured Ahmednagar. This great ruler, who was as remarkable for his religious tolerance as for his military prowess, died in 1605, leaving behind him a record that has been surpassed by few. His son, Jchangir, who married the Persian lady Nur Jahan, ruled until 1627, bequeathing to an admiring posterity some notable building—the tomb of his father at Sikandra, part of the palace at Agra, and the palace and fortress of Lahore. His son, Shahjahan, was for many years occupied with wars in the Decean, but found time to make his court of incredible magnificence and to build the most famous and beautiful of all tombs, the Taj Mahal, as well as the fort, palace and Juma Masjid at Delhi. The quarrels of his sons led to the deposition of Shahjahan by one of them, Aurangzob, in 1658. This Emperor's rule was one of constant intrigue and fighting in every direction, the most important of his wars being a twenty-five years' struggle against the Marathas of the Deccan who, under the leadership of Sivaji, became a very powerful faction in Indian politics. His bigoted attitude towards Hinduism made Aurangzeb all the anxious to establish his Empire on a firm basis The Mahomedan dynasties that had ruled in the south, but he was unable to hold his in capitals other than Delhi up to this date many conquests, and on his death (1707) the

Empire, for which his three sons were fighting, could not be held together. Internal disorder and Maratha encroachments continued during the reigns of his successors, and in 1739 a fresh danger appeared in the person of Nadir Shah, the Persian conqueror, who carried all before bim. On his withdrawal, leaving Mahomed Shah on the throne, the old intrigues recomsnan on the throne, the old intrigues recommenced and the Marathas began to make the most of the opportunity offered to them by puppet rulers at Delhi and by almost universal discord throughout what had been the Mughal Empire. There is little to add to the history of Mahomedan India. Emperors continued to reign in name at Delhi up to the middle of the 19th century, but their territory and power had long since disappeared, being swallowed up either by the Marathas or by the British.

European Settlements.

The voyage of Vasco da Gama to India In 1498 was what turned the thoughts of the Portuguese to the formation of a great Empire in the East. That idea was soon realized, for from 1500 onwards, constant expeditions were sent to India and the first two Viceroys in India—Almeida and Albuquerque—laid the foundations of a great Empire and of a great trade monopoly. Goa, taken in 1510, became the capital of Portugues. India and remains to this day in the hands of its captors, and the to une day 11 the hands of its captors, and the countless rums of churches and forts on the shores of Western India, as also farther East at Malacca, testify to the zeal with which the Portuguese endcavoured to propagate their religion and to the care they took to defend their settlements. There were great soldiers and great missioneries among them. their settlements. There were great solutions and great missionaries among them—Albuquerque, da Cunha, da Castro in the former class, St. Francis Xavier in the latter. But the glory of Empire loses something of its lustre when it has to be paid for, and the constant drain of men and money from Portugal, possessions in India and Malaya, was found almost intolerable. The junction of Portugal with Spain, which lasted from 1580 to 1640. also tended to the downfall of the Eastern Empire and when Portugal became independent again, it was unequal to the task of competing in the East with the Dutch and English. The Dutch had little difficulty in wresting the greater part of their territory from the Portuguese, but the seventeenth century naval wars with England forced them to relax their hold upon the coast of India, and during the French wars between 1795 and 1811 England took all Holland's Eastern possessions, and the Dutch have left in India but few traces of their civilisation and of the once powerful East India Company of the Netherlands.

The first English attempts to reach India date from 1496 when Cabot tried to find the North-West passage, and these attempts were repeated all through the sixteenth century. The first Englishman to land in India is said to have been one Thomas Stephens (1579) who was followed by a number of merchant adven-turers, but trade between the two countries really dates from 1600 when Elizabeth incorporated the East India Company which had been formed in London. Factories in India were founded only after Portuguese and Duich opposition had been overcome, notably in the France in 1744, the French had acquired a

sea fight off Swally (Suvali) in 1612. The first factory, at Surat, was for many years the most important English foothold in the East. Its establishment was followed by others, including Fort St. George, Madras, (1640) and Highli (1651). In the history of these early years of British enterprise in India the cession of Bombay (1661) as part of the dower of Catherine of Braganza stands out as a land-mark it also illustrates the weakness of the Portuguese at that date, since in return the King of England undertook to protect the Portuguese in India against their foes—the Marathas and the Dutch. Cromwell, by his treaty of 1654, had already obtained by his treaty of 1654, had already obtained from the Portuguese an acknowledgment of England's right to trade in the East; and that right was now threatened, not by the Portuguese, but by Sivaji and by the general disorder prevalent in India. Accordingly, in 1686, the Company turned its attention to acquiring territorial power, and announced its intention to establish such a policy of civil and military power and create and secura its intention to establish such a policy of civil and military power, and create and secure such a large revenue....as may be the foun-dation of a large, well-grounded, sure English dominion in India for all time t come. Not much came of this announcement for some time, and no stand could be made in Bengal against the depredations of Aurangzeb. The foundations of Calcutta (1690) could not be laid by Job Charnock until after a humiliating peace had been concluded with that Emperor, and, owing to the difficulties in which the Company found itself in England, there was little chance of any immediate change for the better. The union of the old East India Company with the new one which had been formed in rivalry to it took place in 1708, and for some years peaceful development followed: for some years peaceful development followed; though Bombay was always exposed by sea to attacks from the pirates, who had many strongholds within easy reach of that port, and on land to attacks from the Marstina. The latter danger was felt also in Calcutta. Internal dangers were numerous and still more to be feared. More than on mutiny took place among the troops sent out from England, and rebellions like that led by took place among the troops sent out from England, and rebellions like that led by Keigwin in Bombay threatened to stifle the infant settlements. The public health was bad and the rate of mortality was at times appalling. To cope with such conditions strong men were needed, and the Company was in this respect peculiarly fortunate; the long list of its servants, from Oxenden and Auguster to Hactings and Englise contains Aungier to Hastings and Raffles, contains many names of men who proved themselves good rulers and far-sighted statesmen, the finest Empire-builders the world has known.

Attempts to compete with the English were made of course. But the schemes of the Emperor Charles VI to secure a share of the Emperor Charics VI to secure a share of the Indian trade were not much more successful than those made by Scotland, Denmark, Sweden, and Russia. By the French, who founded Pondicherry and Chandernagore to-wards the end of the 17th century, much more was achieved, as will be seen from the follow-was will be of the development of British rule. ing outline of the development of British rule.

The French Wars.

When war broke out between England and

strong position in Southern India, which had at Murshidabad, and the price of this honour become independent of Delhi and was divided was put at £ 2,340,000 in addition to the grant into three large States-Hyderabad, Tanjore, and Mysore—and a number of petty states under local chieftains. In the affairs of these States Dupleix, when Governor of Pondicherry, had intervened with success, and when Madras was captured by a French squadron, under La Bourdonnais (1746) Dupleix wished to hand it over to the Nawab of Aroct—adeputy of the Nizam's who ruled in the Carnatic. The French, however, kept Madras, repelling an attack by the dissancianted Nameh and Mysore—and a number of petty states repelling an attack by the disappointed Nawab as well as the British attempts to recapture it. The treaty of Aix-la-Chapelle restored Madras to the English. The fighting had shown the Indian powers the value of European troops, and this was again shown in the next French war (1750-54) when Clive achieved enduring fame by his capture and subsequent defence of Arcot. This war arose from Dupleix supporting candidates for the disputed successions at Arcot and Hyderabad while the English at Madras put forward their own nominations. English at Madras put forward their own nominees. One of Dupleix's officers, the Marquis de Bussy, persuaded the Nizam to take Into his pay the army which had established his power, and in return the Northern Circars, between Orisa and Madras, was granted to the French. This territory, however, was captured by the English in the seven years' war (1756-63). Dupleix had by then been realled to France. Lally, who had been sent to drive the English out of India, captured Fort St. David and invested Madras. But the victory which Colonel (Sir Eyre) Coote won at Wandiwash (1760) and the surrender of Pondicherry and Gingee put an end to the French ambitions of Empire in Southern India. Pondicherry passed more than once from the Pondicherry passed more than once from the one nation to the other before settling down to its present existence as a French colony in miniature.

Battle of Plassey.

While the English were fighting the third French war in the South they became involved in grave difficulties in Bengal, where Siraj-ud-Daula had acceded to power. The head-quarters of the English at Calcutta were threatened by that ruler who demanded they should surrender a refugee and should cease building fortifications. They refused and he marched against them with a large army, Some of the English took to their ships and made of down the river, the rest surrendered and were cast into the jail known as the "Black Hole." From this small and stifling room 23 persons, out of 146, came out alive the next day. Clive who was at Madras, immediately sailed for Calcutta with Admiral Matson's squadron, recaptured the town (1757), and, as war with the French had been proclaimed, proceeded to take Chandernagore. The Nawab Siraj-ud-Daula then took the side of the French, and Clive, putting forward Mir Jafar as candidate for the Nawab's forward Mir Jafar as candidate for the Nawab's throne, marched out with an army consisting of 200 Europeans, 2,000 sepoys and 8 pieces of artillery against the Nawab's host of over of artillery against the Nawab's host of over the system of revenue collection.

to the Company of the land round Calcutta to the Company of the land round Calcutta now known as the District of the twenty-four Parganas. In the year after Plassey, Clive was appointed Governor of Bengal and in that capacity sent troops against the French in Madras and in person led a force against the Oudh army that was threatening Mir Jafar, in each case with success. From 1760 to 1765 Clive was in England. During his absence the Council at Calcutta deposed Mir Jafar and, for a price, put Mir Kasim in his place. This ruler moved his capital to Monghyr, organized an army, and began to intrigue with the Nawab Wazir of Oudh. He soon found, in a dispute over customs dues, an opportunity of quarrelling with the English and the first shots fired by his followers were the signal for a general rising in Bengal. About 200 Englishmen and a number of sepoys were massacred, but his trained regiments were defeated at Gheria and Oodeynullah, and Mir Kasim sought protection from the Nawab of Oudh. But in 1764, after quelling a sepoy mutiny in his own camp by blowing 24 ring-leaders from the guns, Major (Sir Hector) Munro defeated the joint forces of Shah Alam, the Mughal Emperor, and the Nawab of Oudh in the battle of Buxar. In 1765 Clive (now Baron Clive of Plassey) returned as Governor. Baron Clive of Plassey) returned as Governor.
"Two landmarks stand out in his policy. First, he sought the substance, although not the name, of territorial power, under the fiction of a grant from the Mughal Emperor. Second, he desired to purify the Company's service, by prohibiting illicit gains, and by guaranteeing a reasonable pay from honest sources. In neither respect were his plans carried out by his immediate successors. But our efforts towards as sweed exhibition to the successors. our efforts towards a sound administration date from this second Governorship of Clive, and from this second dovernorship of Cive, as our military supremacy dates from his victory at Plassey." Before Clive left India, in 1767, he had readjusted the divisions of Northern India and had set up a system of Government in Bengal by which the English received the revenues and maintained the array while the travernues and maintained the army while the criminal jurisdiction was vested in the Nawab. The performance of his se-cond task, the purification of the Company's service, was hotly opposed but carried out. He died in 1774 by his own hand, the House of Commons having in the previous year censured him, though admitting that he did render great and meritorious services to his country.

Warren Hastings.

The dual system of government that Clive had set up proved a failure and Warren Hastings was appointed Governor, in 1772, to carry out the reforms settled by the Court of Directors which were to give them the entire care and administration of the revenues. Thus Hastings had to undertake the administrative of 900 Europeans, 2,000 septys and o pieces cit, he reorganized the civil service, reformed of artillery against the Nawab's host of over 50,000. The result was the historic battle of Plassey (June 23) in which Clive, after hesitating on the course to be pursued, routed the Nawab. Mir Jafar was put on the throne was Governor of Bengal, and from 1774 to 1775

he was the first Governor-General, nominated under an Act of Parliament passed in the previous year. His financial reforms, and the forced contributions he enacted from the rebellions Chet Singh and the Begam of Oudh, were interpreted in England as acts of oppression and formed, together with his action in the trial of Nuncomar for forgery, the basis of his seven years' trial before the House of Lords which ended in a verdict of not guilty on all the charges. But there is much more for which his administration is justly famous. The recovery of the Marathas from their defeat at Panipat was the cardinal factor that in-fluenced his policy towards the native states. One frontier was closed against Maratha invasion by the loan of a British brigade to the Nawab Wazir of Oudh, for his war against the Rohillas, who were intriguing with the Marathas. In Western India he found himself committed to the two Maratha wars (1775-82) owing to the ambition of the Bombay Government to place its own nominee on the throne of the Peshwa at Poona, and the Bengal troops that he sent over made amends, by the con-quest of Guirat and the capture of Gwalior, for the disgrace of Wadgaon where the Marathas overpowered a Bombay army. In the South— where interference from Madras had already led (1769) to what is known as the first Mysore war, a disastrous campaign against Hyder Ali and the Nizam—he found the Madras Governand the Nizam—he found the madras Government again in conflict with those two potentates. The Nizam he won over by diplomacy, but against Hyder Ali he had to despatch a Bengal army under Sir Eyre Coote. Hyder Ali died in 1782 and two years later a treaty was made with his son Tipu. It was in these acts of intervention in distant provinces that acts of intervention in distant provinces that Hastings showed to best advantage as a great and courageous man, cautious, but swift in action when required. He was succeeded, after an interregnum, by Lord Cornwallis (1786-93) who built on the foundations of civil administration laid by Hastings, by entrusting criminal jurisdiction to Europeans and establishing an Appellate Court of Criminal Judicature at Calcutta. In the Civil Service he converted the functions of the District Col-Judicature at Calcuta. In the CVII Service he separated the functions of the District Collector and Judge and organized the "writers" and "merchants" of the Company into an administrative Civil Service. This system was subsequently extended to Madras and Bombay. Lord Cornwallis is better known for his introduction, on orders from England, of the Permanent Settlement in Bengal. (See article on Land Revenue). A third Mysore war was waged during his tenue of office which ended in the submission of Tipu Sultan. Sir John Shore (Lord Teignmouth), an experienced Civil Servant, succeeded Lord Cornwallis, and, in 1798, was followed by Lord Wellesley, the friend of Pitt, whose projects were to change the map of India.

Lord Wellesley's Policy.

The French in general, and "the Corsican" he resigned, in 1823, all the Native States out-in particular, were the enemy most to be dreaded for a few years before Lord Wellesley tical system and British interests were pertook up his duties in India, and he formed the scheme of definitively ending French schemes of definitively ending French schemes of Marsings, and his five years rule - (1823-28) great Indian confederacy. He started by obtaining from the Nawab of Oudh the cession of the capture of Bharatpur. The former opera-

large tracts of territory in licu of payments overdue as subsidies for British troops, he then overdue as subsidies for British troops, he then won over the Nizam to the British side, and, after exposing the intrigues of Tipu Sultan with the French, embarked on the fourth Mysore war which ended (1799) in the fall of Seringapatam and the gallant death of Tipu. Part of Mysore, the Carnatic, and Tanjore roughly constituting the Madras Presidency of to-day then passed to British rule. The five Maratha powers—the Peshwa of Poona, the Gaekwar of Baroda, Sindhia of Gwalior, Holkar of Indore and the Raia of Narpur— Holkar of Indore and the Raja of Nagpur—had still to be brought into the British net. The Peshwa, after being defeated by Holkar, fied to British territory and signed the Treaty of Bassein which led to the third Maratha war (1802-04) as it was re-garded by Sindhia and the Raja of Nagpur as a betrayal of Maratha independence. In this, the most successful of British campaigns in India, Sir Arthur Wellesley (the Duke of Wellington) and General (Lord) Lake carried all before them, the one by his victories at Assaye and Argaum and the other at Aligarh and Lawvij Laker operations such as Colo-Assaye and Angaum and the other at Aligam and Laswari. Later operations, such as Colonel Monson's retreat through Central India, were less fortunate. The great acquisitions of territory made under Lord Wellesley proved so expensive that the Court of Directors, between the coming impatient, sent out Lord Cornwallis a second time to make peace at any price. He, however, died soon after his arrival in India, and Sir George Barlow carried on the government (1865-7) until the arrival of a stronger ment (1805-7) until the arrival of a stronger ruler, Lord Minto. He managed to keep the peace in India for six years, and to add to British dominions by the conquest of Java and Mauritius. His foreign policy was marked by another new departure, inasmuch as he opened relations with the Punjah, Persia, and Afghanistan, and concluded a treaty with Ranjit Singh, at Lahore, which made that Sikh ruler the loyal ally of the British for life.

The successor of Lord Minto was Lord Moira, who found himself obliged almost at once to declare war on the Gurkhas of Nepal, who had been encroaching on British territory. After initial reverses, the English, under General Ochterlony, were successful and the Treaty of Sagauli (1816) was drawn up which defines British relations with Nepal to the present day. For this success Lord Moira was made Marquis of Hastings. In the same year he made preparations for the last Maratha war (1817-18) which was made necessary by the lawless conduct of the Pindaris, gangs of Pathan or Rohilla origin, whose chief patrons were the rulers of Native States. The large number of 120,000 that he collected for this purpose destroyed the Pindaris, annexed the dominions of the rebellious Peshwa of Poona, protected the Raiput States, resulva of rooms, protected the Ralpht States, made Sindhia enter upon a new treaty, and compelled Holkar to give up part of his territory. Thus Lord Hastings established the British power more firmly than ever, and when he resigned, in 1823, all the Native States outside the Punjab had become parts of the political system and British interests were per-manently secured from the Persian Gulf to

mands and raids of the Burmese, and resulted in the Burmese ceding Assam, Aracan, and the coast of Martaban and their claims to the lower provinces. The capture of Bharatpur by Lord Combernere (1826) wiped out the repulse which General Lake had received there twenty years earlier. A disputed succession on this occasion led to the British intervention.

Social Reform.

A former Governor of Madras, Lord William Bentinck, was the next Governor-General. His epitaph by Macaulay, says: "He abolished cruel rites; he effaced humiliating distinctions; he gave liberty to the expression of public opinion; his constant study was to clevate the intellectual and moral character of the nations committed to his charge."

Some of his financial reforms, forced on him from England, and his widening of the gates by which educated Indians could enter the service of the Company, were most unpopular at the time, but were eclipsed by the acts he took for the abolition of Sati, or widow-burntook for the abolition of Sail, or widow-burn-ing, and the suppression—with the help of Captain Sleeman—of the professional here-ditary assassins known as Thags. In 1832 he annexed Cachar, and, two years later, Coora. The incompetence of the ruler of Mysore forced him to take that State also under British administration-where it remained until 1881. His rule was marked in other ways by the despatch of the first steamship that made the passage from Bombay to Suez, and by his settlement of the long educational controversy in favour of the advocates of instruction in English and the vernaculars. Lord William Bentinck lett India (1835) with his programme of reforms unfinished. The new Charter Act of 1833 had brought to a close the commercial business of the Company and emphasized their position as rulers of an Indian Empire in trust for the Crown. By it the whole administra-tion, as well as the legislation of the country, was placed in the hands of the Governor-General in Council, and authority was given to create a Presidency of Agra. Before his recreate a Presugency or Agra. Before his re-tirement Bentinck assumed the statutory title of Governor-General of India (1834), thus marking the progress of consolidation since Warren Hastings in 1774 became the first Go-vernor-General of Port William. Sir Charles Metcalfe, being senior member of Council, succeeded Lord William Bentinck, and during his short tenure of office carried into execution his predecessor's measure for giving entire liberty to the press.

Afghan Wars.

With the appointment of Lord Auckland as Governor-General (1836-42) there began a new era of war and conquest. Before leaving London he announced that he looked with ex-ultation to the prospect of "promoting educa-tion and knowledge, and of extending the blessings of good Government and happiness to millions in India." but his administration was almost exclusively comprised in a fatal expedition to Afghanistan, which dragged in its train the annexation of Sind, the Sikh wars, and the inclusion of Baluchistan in the protectorate of India. The first Afghan war was undertaken partly to counter the Russian advance

tion was undertaken owing to the insolent de- | in Central Asia and partly to place on the throne at Kabul the dethroned ruler Shah Shuja in place of Dost Mahomed. The latter object was easily attained (1839) and for two years Afghanistan remained in the military occupation of the British. In 1841 Sir Alexander Burnes was assassinated in Kabul and Sir William Macnaghten suffered the same fate in an interview with the son of Dost Mahomed. The British commander in Kabul, Gen. Elphinstone, was old and feeble, and after two months delay he led his army of 4.500 and 12.000 camp followers back towards India in the depth of winter. Between Kabul and Jallalabad the whole force perished, either at the hands of the Afghans or from cold, and Dr. Brydon was the only survivor who reached the latter city. Lord Ellenborough succeeded Lord Auckland and was persuaded to send an army of retribution to relieve Jalialabad.
One force under Gen. Pollock relieved Jalialabad and marched on Kabul, while Gen. Nott, advancing from Kandahar, captured Ghazni and joined Pollock at Kabul (1842).
The bazar at Kabul was blown up, the price of the state o soners rescued, and the army returned to India leaving Dost Mahomed to take undisputed possession of his throne. The drama ended with a bombastic proclamation from Lord Ellenborough and the parade through the Punjab of the (spurious) gates of Somnath taken from the tomb of Mahmud of Ghazal.

Sikh Wars.

Lord Ellenborough's other wars—the conquest of Sind by Sir Charles Napler and the suppression of an outbreak in Gwalior-were followed by his recall, and the appointment of Sir Henry (1st Lord) Hardinge to be Gov-ernor-General. A soldler Governor-General was not unacceptable, for it was felt that a trial of strength was imminent between the British and the remaining Hindu power in India, the Sikhs. Ranjit Singh, the founder of the Sikh Kingdom, had died in 1839, loyal to the end to the treaty he had made with Metcalfe thirty years carlier. He left no son capable of ruling, years carrier. He left no son capable of ruling, and the khalsa, or central council of the Sikh army, was burning to measure its strength with the British sepoys. The intrigues of two men, Lai Singh and Fej Singh, to obtain the supreme power led to their crossing the Sutlej and invading British territory. Sir Hugh Gough, the Commandor-in-Chief, and the Governor-General hurried to the frontier, and within three weeks four pitched battles were fought—at Mudki, Ferozeshah, Aliwal and Sobraon. The Sikhs were driven across the Sutlej and Lahore surrendered to the British, but the province was not annexed. By the terms of peace the infant Dhuleep Singh was recognized as Rajah; Major Henry Lawrence was appointed Resident, to assist the Sikh Council of Regency, at Lahore; the Juliundur Doab was added to British territory; the Sikh army was limited; and a British force was sent to garrison the Punjab on behalf of the child Rajah. Lord Hardinge returned to England (1848) and was succeeded by Lord Dalhousie, the greatest of Indian proconsuls.

Dalhousie had only been in India a few months when the second Silk war hooke out and the khalsa, or central council of the Sikh

Dalhousie had only been in India a few months when the second Sikh war broke out. In the attack on the Sikh position at Chillianwala the British lost 2.400 officers and men

besides four guns and the colours of three regiments: but before reinforcements could arrive ments: but before reinforcements could arrive from England, bringing Sir Charles Napler as Commander-in-Chief, Lord Gough had re-stored his reputation by the victory of Gujrat which absolutely destroyed the Sikh army. As a consequence the Punjab was annexed and As a consequence the runjan was almested and became a British province (1849), its pacifica-tion being so well carried out, under the two Lawrences that on the out-break of the Mutiny eight years later it remained not only quiet but loyal.In 1852 Lord Dalhousie had again to embark on war, this time in Burma, owing to the ill-treatment of British merchants in Rangoon. The lower valley of the Irawaddy was occupied from Rangoon to Prome and annexed, under the name of Pegu, to those provinces that had been acquired in the first Burmese war. British territories were enlarged in many other directions during Lord Dalhousie's tenure of office. His "doctrine of lapse" by which British rule was substituted for Indian in States where continued misrule on the failure of a dynasty made this change possible, came into practice in the cases of Satara, Jhansi, and into practice in the cases of Satara, Jhansi, and Nagpur (which last-named State became the Central Provinces) where the rulers died without leaving male heirs. Oudh was annexed on account of its misrule. Dalhousie left many other marks on India. He reformed the administration from top to bottom, founded the Public Works Department, initiated the rulways, telegraphs and postal system, and completed the great Gauges canal. He also completed the great Ganges canal. He also detached the Government of Bengal from the charge of the Governor-General, and summoned representatives of the local Governments to the deliberations of the Government of India. Finally, in education he laid down the lines of a department of public instruction and initiated more practical measures than those devised by his predecessors. It was his misfortune that the mutlay, which so swiftly followed his resignation, was by many critics in England attributed to his passion for change.

The Sepoy Mutiny.

Dalhousie was succeeded by Lord Canning in 1856, and in the following year the sepoys of the Bengal army mutinied and all the valley of the Ganges from Delhi to Patna rose in rebellion. The causes of this convulsion are difficult to estimate, but are probably to be found in the unrest which followed the progress of English civilisation; in the spreading of false rumours that the whole of India was to be subdued; in the confidence the sepoy troops had acquired in themselves under British leadership; and in the ambition of the educated classes to take a greater share in the educated classes to take a greater share in the government of the country. Added to this, there was in the deposed King of Delhi, Bahadur Shah, a centre of growing disaffection. Finally there was the story —not devoid of truth—that the cartridges for the new Enfield rifle were greased with fat that rendered them unclean for both Hindus and Mahomedans.
And when the mutiny did break out it found the Army without many of its best officers who were employed in civil work, and the British troops reduced, in spite of Lord Dalhousie's warnings, below the number he her cleive in force, under Havelock and Outconsidered essential for safety On May 10 ram, was itself invested, and the garrison was

the sepoys at Meerut rose in mutiny, cut down a few Europeans, and, unchecked by the large European garrison, went off to Delhi where next morning the Mahomedana rose. From that centre the mutiny spread through the North-Western Provinces and Oudh into Lower Bengal. Risings in the Punjab were put down by Sir John Lawrence and his subordinates, who armed the Sikhs, and with their help re-duced the sepoys, and Lawrence was subse-quently able to send a strong body of Sikhs to aid in the siege of Delhi. The native armies of Madras and Bombay remained for the most part true to their colours. In Central India, the contingents of some of the great chiefs joined the rebels, but Hyderabad was kept loyal by the influence of its minister, Sir Salar

The interest of the war centres round Delhi, Cawnpore and Lucknow, though in other places massacres and fighting occurred. The siege of Delhi began on June 8 when Sir Henry Barnard occupied the Ridge outside the town. Barnard died of cholera early in July, and Thomas Reed, who took his place, was obliged through illness to hand over the command to Archdale Wilson. In August Nicholson arrived with a reinforce-ment from the Punjab. In the meantime the rebel force in Delhi was constantly added to by the afrival of new bodies of mutineers; attacks were frequent and the losses heavy: cholers and sunstroke carried off many victims on the Ridge: and when the final assault was on the Ruge: and when the limit around only parade 4,720 infantry, of whom 1,960 were Europeans. The arrival of siege guns made it possible to advance the batteries on September 1, 1960 to 1 ber 8, and by the 13th a breach was made. or the following day three columns were led to the assault, a fourth being held in reserve. Over the ruins of the Kashmir Gate, blown in by Horze and Salkeld, Col. Czmpbell led his men and Nicholson formed up his troops within the walls. By nightfall the British, with a loss of nearly 1,206 killed and wounded, had only secured a foothold in the city. Six days' street fighting followed and Delhi was won; but the railant Nicholson was killed at the head of a storming party. Bahadur Shah was taken prisoner, and his two sons were shot by Captain Hudson.

Massacre at Cawnpore.

At Campore the sepoys mutinled on June and found in Nana Sahib, the helr of the last Peshwa, a willing leader in spite of his former professions of loyalty. There a European force of 240 with six guns had to protect 870 non-combatants, and held out for 22 days, sur-rendering only on the guarantee of the Nana that they should have a safe conduct as far as Allahabad. They were embarking on the boats on the Ganges when fire was opened on them, the men being shot or hacked to pieces before the eyes of their wives and children and the women being mutilated and murdered in Cawnpore to which place they were taken back. Lawnpore to which place they were taken back. Their bodies were thrown down a well just before Havelock, having defeated the Nana's forces, arrived to the relief. In Lucknow a small garrison held out in the Residency from July 2 to September 25 against tremendous odds and enduring the most fearful hardships. The religious force under Havelock and Outnot finally delivered until Sir Colin Campbell arrived in November. Fighting continued for 18 months in Oudh, which Sir Colin Campbell finally reduced, and in Central India, where Sir Hugh Rose waged a brilliant campaign against the disinherited Rani of Jhansi—who died at the head of her troops—and Tantia Topi.

Transfer to the Crown.

With the end of the mutiny there began a new era in India, strikingly marked at the outset by the Act for the Better Government of India (1858) which transferred the entire ad-ministration from the Company to the Crown. By that Act India was to be governed by, and in the name of, the Sovereign through a Secretary of State, assisted by a Council of fifteen members. At the same time the Governor-General received the title of Viceroy. The European troops of the Company, numbering about 24,000 officers and men were-greatly resenting the transfer-amalgamated with the Royal service, and the Indian Navy was abolished. On November 1, 1858, the Viceroy announced in Durbar at Allahabad that Queen Victoria had assumed the government of India, and proclaimed a policy of justice and religious toleration. A principle already enunciated in the Charter Act of 1833 was reinforced, and all, of every race or creed, were to be admitted as, far as possible to those offices in the Queen's service for which they might be qualified. The aim of the Government was to be the benefit of all her subjects in India—"In their prosperity will be our strength, in their contentment our security, and in their gratitude our best reward." Peace was proclaimed in July 1859, and in the cold weather Lord Canning went on tour in the northern provinces, to receive the homage of loyal chiefs and to assure them that the "policy of lapse" was at an end. A number of other important reforms marked the closing years of Canning's Viceroyalty. The India Councils Act (1861) augmented the Governor-General's Council, and the Councils of Madras and Bombay by adding non-official members, European and Indian, for legislative purposes only. By another Act of the same year High Courts of Judicature were consti-tuted. To deal with the increased debt of India, Mr. James Wilson was sent from England to be Financial Member of Council, and to him are due the customs system, income tax, license duty, and State paper currency. The cares of office had broken down the Viceroy's health. Lady Canning died in 1862 and this hastened his departure for England where he died in June of that year. His successor, Lord Eigin, lived only a few months after his arrival man, who only a new months after his arrival in India, and was succeeded by Sir John (afterwards Lord) Lawrence, the "saviour of the Punjab."

Sir John Lawrence.

The chief task that fell to Sir John Lawrence was that of reorganising the Indian military system, and of reconstructing the Indian army. The successive system, and of reconstructing the Indian army years of drought produced, in 1877-78, the the latter task was carried out on the principle that in the Bengal army the proportion of Europeans to Indians in the infantry and cavalry should be one to two, and in the Madras and Bombay armies one to three: the artillery was to be almost wholly European.

The re-organisation was carried out in spite of financial difficulties and the saddling of Indian revenues with the cost of a war in Abyssinia with which India had no direct concern; but operations in Bhutan were all the drain made on the army in India while the re-organising process was being carried on, Two severe famlnes—in Orissa (1866) and Bundelkhand and Upper Hindustan (1868-9)—occurred while Sir John Lawrence was Viceroy, and he laid down the principle for the first time in Indian history, that the officers of the Government would be held personally responsible for taking every possible means to avert death by starva-tion. He also created the Irrigation Depart ment under Col. (Sir Richard) Strachey. Two commercial crises of the time have to be noted. One seriously threatened the tea industry in Bengal. The other was the consequence of the wild gambling in shares of every description that took place in Bombay during the years of prosperity for the Indian cotton In-dustry caused by the American Civil War. The "Share Mania," however, did no permanent harm to the trade of Bombay, but was, on the other hand, largely responsible for the series of splendid buildings begun in that city during the Governorship of Sir Bartle Frere. Sir John Lawrence retired in 1869, having passed through every grade of the service, from an Assistant Magistracy to the Viceroyalty. Lord Mayo, who succeeded him, created an Agricultural Department and introduced the system of Provincial Finance, thus fostering the impulse to local self-government. laid the foundation for the reform of the salt duties, thereby enabling his successors to abolish the inter-provincial customs lines. Un-happily his vast schemes for the development of the country by extending communications of every kind were not carried out to the full by him, for he was murdered in the convict by mm, for he was mirecred in the convex settlement of the Andaman Islands, in 1872. Lord Northbrook (Viceroy 1872-6) had to exercise his abilities chiefly in the province of finance. A severe famine which threatened Lower Bengal in 1874 was successfully warded off by the comparisons of the convergence. off by the organization of State relief and the importation of rice from Burma. The following year was notable for the deposition of the Gaikwar of Baroda for misgovernment, and for the tour through India of the Prince of Wales (the late King Edward VII). The visit of the Duke of Edinburgh to India when Lord Mayo was Viceroy had given great pleasure to those with whom he had come in touch, and had established a kind of personal link between India and the Crown. The Prince of Wales's tour aroused unprecedented enthusiasm for and loyalty to the British Raj, and further encouragement was given to the growth of this spirit when, in a durbar of great magnificence spin when, in a durear or great magniticence held on January 1st, 1877, on the famous Ridge at Delhi, Queen Victoria was proclaimed Empress of India. The Vicercy of that time, Lord Lytton, had, however, to deal with a situation of tunusual difficulty. Two successive years of drought produced, in 1877-78, the worst dermine India had been seen the state of worst famine India had known. The most strenuous exertions were made to mitigate its

Second Afghan War.

The Amir, Sher Ali, was found to be intriguing with Russia and that fact, coupled with his repulse of a British mission led to the second Afghan War. The British forces advanced by three routes—the Khyber, the Kurram, and the Bolan—and gained all the important van-tage points of Eastern Afghanistan. Sher Ali fled and a treaty was made with his son Yakub Khan, which was promptly broken by the murder of Sir Louis Cavagnari, who had been sent as English envoy to Kabul. Further operations were thus necessary, and Sir F. (now Lord) Roberts advanced on the capital and defeated the Afghans at Charasia. A rising of the tribes followed, in spite of Sir D. Stewart's victory at Ahmed Kheyl and his advance from Wohl). Kabul to Kandahar. A pretender, Sirdar Ayub Khan, from Herat prevented the establishment of peace, defeated Gen. Burrows' brigade at Maiwand, and invested Kandahar. He was routed in turn by Sir F. Roberts who made a brilliant march from Kabul to Kandahar. After the British withdrawal fighting continued between Ayub Khan and Abdur Rahman, but the latter was left undisputed Amir of Afghanistan until his death in 1901. In the meantime Lord Lytton had resigned (1880) and Lord Ripon was appointed Viceron's by the new Liberal Government. Lord Ripon's administration is memorable for the freedom administration is memoranic for the freedom given to the Press by the repeal of the Vernacular Press Act, for his scheme of local self-government which developed municipal institutions, and for the attempt to extend the jurisdiction of the criminal courts in the Districts over European British subjects indetricts over European British subjects, independently of the race or nationality of the presiding judge. This attempt, which created a feeling among Europeans in India of great hostility to the Viceroy, ended in a compromise in 1884. Other reforms were the re-establishment of the Department of Revenue and Agriculture, the appointment of an Education Commission with a view to the spread of popular instruction on a broader basis, and the abolition by the Finance Minister (Sir Evelyn tion by the rinauce animet. Starling, now Lord Cromer) of a number of customs duties. Lord Dufferin, who succeeded Lord Ripon in 1884, had to give his attention more to external than internal affairs: one of his first acts was to hold a durbar at Rawalpindi for the reception of the Amir of Afghanistan which resulted in the strengthening of British relations with that ruler. In 1885 a third Burmese war became necessary owing to the truculent attitude of King Thibaw and his intrigues with foreign Powers. The expedition, trigues with foreign Fowers. The expedition, under General Prendergast, occupied Mandalay without difficulty and King Thibaw was exiled to Ratnagiri, where he still lives on a liberal pension. His dominions of Upper Burma were annexed to British India on the first of January 1002.

The Russian Menace.

ary, 1886.

Of greater importance at the time were the or greater importance at the time were the measures taken to meet a possible, and as it then appeared a probable, attack on India by Russia. These preparations, which cost two million sterling, were hurried on because of a collision which occurred between Russian and Afghan troops at Penjich, it is a complete the delimitation of the Afghan frontier troops were employed, and over 1,000 officers

towards Central Asia, and which seemed likely to lead to a declaration of war by Great Britain. War was averted, but the Penjdeh incident had called attention to a menace that was to be felt for nearly a generation more; it had also served to elicit from the Princes of India an unanimous offer of troops and money in case of need. That offer bore fruit under the next Viceroy, Lord Lansdowne, when the present system of Imperial Service Troops was organised. Under Lord Lansdowne's rule also the defences of the North-Western Fronticr were defences of the North-western fronter were strengthened, on the advice of Sir Frederick (now Earl) Roberts, who was then Comman-der-in-Chief in India, Another form of pre-cautionary measure against the continued aggression of Russia was taken by raising the annual subsidy paid by the Indian Govern-ment to the Amir from eight to twelve lakhs. On the North-Eastern 1 rontier there occurred (1891) in the small State of Manipur a revolu-(1891) in the small state of manipur a revoution against the Raja that necessitated an inquiry on the spot by Mr. Quinton, the Chief Commissioner of Assam. Mr. Quinton, the commander of his escort, and others, were treacherously murdered in a conference and

the escort ignonimously retreated. This dis-grace to British arms led to several attacks on frontier outposts which were brilliantly de-feated. Manipur was occupied by British troops and the government of the State was reorganised under a Political Agent. Lord Lansdowne's term of office was distinguished by several other events, such as the passing of the Parliamentary Act (Lord Cross's Act, 1892), which increased the size of the Legislative Councils as well as the number of nonofficials in them: legislation aimed at social and domestic reform among the Hindus: and the closing of the Indian Mints to the free coinage of silver (1893). In Burma great progress was made, under Sir Alexander Mackenzie, as Chief Commissioner: comparative order was established, and large schemes for the con-struction of railways, roads, and irrigation works were put in hand. (The Province was made a Lieutenant-Governorship in 1897).

Frontier Campaigns.

Lord Elgin, who succeeded Lord Lansdowne in 1894, was confronted at the outset with a deficit of Rs. 2‡ crores, due to the fall in exchange. (In 1895 the rupee fell as low as 1s. 1d.) To meet this the old five per cent. im-18.1d.) To meet this the old five per cent. import duties were reimposed on a number of commodities, but not on cotton goods: and within the year the duty was extended to piece-goods, but not to yarn. The reorganisation of the Army, which involved the abolition oi the old system of Presidency Armies, had hardly been carried out when a number of risings occurred along the North-West Frontier. In 1895 the British Agent in Chitral—which had come under British influence two years precome under British influence two years pre-viously when Sir H. M. Durand had demarcated the southern and eastern boundaries of Afghanistan—was besieged and had to be res-

and men had been lost. This was in itself a artillery, and the reorganisation of the transheavy burden on the finances of India, which was increased by the serious and widespread famine of 1896-97 and by the appearance in India of bubonic plague. The methods taken to prevent the spread of that disease led, in Bombay, to rioting, and elsewhere to the appearance in the spread of the disease ted, in the spread of pearance in the vernacular press of seditious articles which made it necessary to make more stringent the law dealing with such writings.

Lord Curzon's Vicerovalty.

With famine and plague Lord Curzon also, who succeeded Lord Elgin in 1899, had to deal. In 1901 the cycle of bad harvests came to an end; but plague increased, and in 1904 deaths from it were returned at over one million. Of the many problems to which Lord Curzon directed his attention, only a few can be mentioned here: some indeed claim that his greatest work in India was not to be found in any est work in India was not to be found in any one department but was in fact the general gearing up of the administration which he achieved by his unceasing energy and personal example of strenuous work. He had at once to turn his attention to the North-West Frontier. The British garrisons beyond our boundary were gradually withdrawn and replaced by tribal levies, and British forces were concentrated in British territory behind them as a support. An attempt was made to check the arms traffic and work on strategic railways was pushed forward. The fact that in seven years he only separate constants. years he only spent a quarter of a million upon repressive measures and only found it necessary to institute one blockade (against the Mahsud Waziris) is the justification of this policy of compromise between the Lawrence and Forward schools of thought. In 1901 the transward schools of thought. In 1901 the trans-Indus districts of the Punjab were separated from that Province, and together with the po-litical charges of the Malakand, the Khyber, Kurram, Tochl, and Wana were formed into the new North-West Frontier Province, under a Chief Commissioner directly responsible to the Government of India. That year also witnessed the death of Abdur Rahman, the Amir of Aforlanistan, and the establishment. Amir of Afghanistan, and the establishment of an understanding with his successor Habibullah. In 1904 the attitude of the Dalai Lama of Tibet being pro-Russian and anti-British, it became necessary to send an expedition to Lhaza under Colonel (Sir Francis) Younghus-band. The Dalai Lama abdicated and a treaty was concluded with his successor.

Lord Curzon as Viceroy.

In his first year of office Lord Curzon passed the Act which, in accordance with the recommendations of the Fowler Commission, practically fixed the value of the rupee at 1s. 4d., and in 1900 a Gold Reserve fund was created. The educational reforms that marked this Viceroyalty are dealt with elsewhere: chief among them was the Act of 1904 reorgani ing the governing bodies of Indian Universities. Under the head of agrarian reform must be mentioned the Punjab Land Alienation Act, designed to free the cultivators of the soil from the clutches of money-lenders, and the insti-tution of Agricultural banks. The efficiency of the Army was increased (Lord Kitchener was Commander-in-Chief) by the re-armament of the Indian Army, the strengthening of the Mayor of Chandernagore.

port service. In his relations with the Feuda-tory Chiefs, Lord Curzon emphasized their position as partners in administration, and he founded the Imperial Cadet Corps to give a military education to the sons of ruling and aristocratic families. In 1902 the British Government obtained from the Nizam a perpetual lease of the Assigned Districts of Berar in return for an annual payment of 25 lakh. The accession of King Edward VII was pic-claimed in a splendid Durbar on January 1, 1903. In 1904 Lord Curzon returned to England for a few months but was re-appointed to a second term of office, Lord Ampthill, Governor of Madras, having acted as Viceroy during his absence. The chief act of this second term was the partition of Bengal and the creation of a new Province of Eastern Bengal and Assam—a reform, designed to remove the systematic neglect of the trans-Gangetic areas of Bengal, which evoked bitter and prolonged criticism. In 1905 Lord Curzon resigned, being unable to accept the proposals of Lord Kitchener for the re-adjustment of relations between the Army headquarters and the Military Department of the Government, and being unable to obtain the support of the Home Government. He was succeeded by Lord Minto, the grandson of a former Governor-General. It was a stormy heritage to which Lord Minto succeeded, for the unrest which had long been noticed developed in one direction into open sedition. The occasion of the outburst in Bengal was the partition of that province. The causes of the flood of seditious writings and speeches, of the many attempts at assassination, and of the boycott of British goods are less easily definable. The mainspring of the unrest was "a deep-rooted antagonism to all the principles upon which Western society, especially in a democratic country like England, has been built up."

Political Outrages.

Outside Bengal attempts to quell the disaffection by the ordinary law were fairly successful. But scarcely any province was free from dis-order of some kind and, though recourse was had to the deportation of persons without reason assigned under an Act of 1818, special Acts an Explores Act, a Prevention of Seditions Meetings Act, and a Criminal Law Amendment Act which provides for a magisterial inquiry in private and a trial before three judges of the High Court without a jury. The need for this reinforcement of the law may be shown by list of the principal political outrages in India while Lord Minto was Viceroy and subsequent to his departure :--

December, 1907.—Attempt to wreck the Lieutenant-Governor of Bengal's train at Naraingarh.

December, 1907.—Attempt on the life of Mr. B. C. Allen at Goalundo.

March, 1908.—Second attempt to wreck Sir Andrew Fraser's train at Chandernagore.

March, 1908.—Attempt to shoot Mr. Higginbotham, a missionary, at Kushtea.

April 11th, 1908.—Bomb thrown at the

Kennedy at Mozafferpore.

August, 1908 .- Mr. Camsle, Mill-manager, severely injured by a bomb on the E. B. S.

August, 1908.—Murder of Narendra Nath Gossain, the approver in the Alipore case, in Alipore Jail.

November 6th, 1908.—Attempt on the life of Sir Andrew Fraser at Overtoun Hall.

November 9th, 1908.-Murder of Inspector Nundo Lall Banerjee, who arrested Khudiram Bose, in Serpentine Lane, Calcutta.

November, 1908.—Sukumar, alleged informer, murdered at Dacca. February 10th, 1908.—Murder of Babu

Ashutosh Biswas in the Courtyard at Alipore.

June, 1909 .- Prio Mohun Chatterji (brother of an approver) stabbed to death at Fatchjangpur. July 1st, 1909.—Assassination of Licutecant-Colonel Sir William Curzon Wyllie, at the

Imperial Institute, London. November 13th, 1909. 1909.—Bomb explosion near H: E. Lord Minto's carriage at Ahmedabad.

December 21st, 1909.—Assassination of Mr. A. M. T. Jackson, I.C.S., Collector of Nasik. January 24th, 1910.—Murder of Khan Bahadur Shams-ul-Alum.

February 21st, 1911.—Murder of Head Constable Srish Chakravarty.

March 2nd, 1911.—Attempt to murder Mr. Cowley, P.W.D., with a bomb in Calcutta.

April 19th, 1911.—Babu Manmchan Dey, witness in Munshigani bomb case, shot dead at Routhbog.

June 17th, 1911.-Murder of Mr. Ashe, Collector of Tinnevelly.

June 18th, 1911.—Murder of Sub-Inspector Raj Kumar Roy at Mymensingh.

July 1911.—Sonarang case, Rashun Dewan Duffadar, Amari-Dewan, and Kati Benode Chakravarti shot at Netrapati.

September 21st, 1912.—Head Constable Radhilal Roy shot dead at Dacca.

December 13th, 1912.-Attempt to assassinate Abdul Rahaman, one of the witnesses for the police in the Midnapore conspiracy case.

December 23rd, 1912 .- H. E. Lord Hardinge wounded, and one of his servants killed, by a bomb during the State entry into Delhi.

March 27th, 1913.—Attempt to murder Mr. Gordon, the sub-divisional officer, with a bomb at Molvi Bazaar, Svihet,

May 17th, 1913.-Chaprasi in the employ of the Lahore Gymkhana Club killed by a bomb near the Lawrence Gardens, Lahore.

September 29th, 1913.-Murder of Head Constable Haripado Deb, College Square, Calcutta September 30th, 1913.—Bankim Chandra Chowdhury, Inspector of Police at Mymensingh, fermerly of Dacca, killed by a bomb.

January 19th, 1914,-Nripendra Nath Ghose, Inspector of the Calcutta C.I D., shot dead on the Chitpur road, Calcutta. A Teli boy,

April 30th, 1908.-Murder of Mrs. and Miss include a number of equally significant disturbances, such as the riots in Bombay (June 1908), during the trial of Tilak, which led to considerable loss of life. Concurrently with these repressive measures steps were taken to extend representative institutions. In 1907 a Hindu and a Mahomedan were appointed to the Secretary of State's Council, and in 1909 a Hindu was appointed for the first time to the Viceroy's Council. The Indian Councils Act of 1909 carried this policy farther by reconstituting the legislative councils and conferring upon them wider powers of discussion. The executive councils of Madras and Bombay were enlarged by the addition of an Indian member.

Lord Minto.

As regards foreign policy, Lord Minto's Viceroyalty was distinguished by the conclu-sion (1907) between Great Britain and Russia of an agreement on questions likely to disturb the friendly relations of the two countries in Asia generally, and in Persia, Afghanistan and Tibet in particular. Two expeditions had to be undertaken on the North-West frontler, against the Zakka Khels and the Mohmands; and ships of the East Indies Squadron were frequently engaged off Maskat and in the Persian Gulf in operations designed to check the traffic in arms through Persia and Mekran to the frontier of India. Towards Native States Lord Minto adopted a policy of less in-terference than that followed by his predecessor. He invited their views on sedition, and, in a speech at Udaipur, disclaimed any desire to force a uniform system of administration in Native States, and said he preferred their development with due regard to treaties and local conditions. Lord Minto left India in November, 1910, a few weeks after Lord Morley had resigned the Secretaryship of State, the tenure of their respective posts having been practically identical in point of time. The position of the Viceroy had in those years materially changed. Lord linto had a weak Council, and this weakness was reflected in the government of Bengal and Madras; but it is more important to note that Lord Morley had extended the policy of transferring the actual government of India from India to London, to such an extent that the Under-Secretary for India was able to describe the Viceroy as merely the agent of the Secretary of State.

Visit of the King and Queen.

Sir Charles (Lord) Hardinge was appointed to succeed Lord Minto. His first year in India was marked by a weak monsoon and famine was marked by a weak monsoon and familie in parts of Western India, still more by the visit to India of the King Emperor and the Queen, who arrived at Bombay on December 2, 1911. From there they proceeded to Delhi where, in the most magnificent durbar ever held in India, the coronation was proclaimed and various boons, including an annual grant of 50 lakhs for popular education, were announced. At the same ceremony His Majesty announced the transfer of the capital of India from Calcutta to Delhi; the remion of the two Bengals under a Governor-in-Council: the The list, it will be seen, includes two attempts on the life of the Viceroy himself. It does not restoration of Assam to the charge of a Chief

Commissioner. On December 14, a review of his exceptional powers as a military adminis-60,000 British and Indian troops was held, and trator. The Military changes in India in 1905 on the 15th Their Majesties each laid a foundation stone of the new capital. From Delhi the King went to Nepal, and the Queen to Agra and Rajputana, afterwards meeting at Banki-pur and going to Calcutta. Thence they rebur and going to Catenta. There easy turned to Bombay and salled for England on January 10. "From all sources, public and private," wrote His Majesty to the Premier, "I gather that my highest hopes have been realised.....Our satisfaction will be still greater if time proves that our visit has conduced to the lasting good of India and of the Empire at large."

ln March,1912, a committee of experts was appointed to advise the Government of India as to the site of the new capital. Temporary buildings were erected to accommodate the Government, and on December 23 the State entry into Delhi was made by the Viceroy. This ceremony was marred by an attempt on His Excellency's life as he passed down the Chandni Chauk. The bomb thrown from a house killed an attendant behind the Howdah in which the Viceroy was sitting, seriously wounded Lord Hardinge, but left Lady Hardinge unscathed. The courage displayed by Their Excellencies was unsurpassed and elicited the admiration of all; but, in spite of the offer of large rewards, the assassin was not caught.

Educational schemes claimed a large place in public attention during 1912 and 1913. In the former year a Royal Commission, under the presidency of Lord Islington, was appointed to inquire into the public services of India. In 1912 also a Committee of four was ap-pointed, under the Chairmanship of Field Marshal Lord Nicholson, to inquire into military policy and expenditure in India. In the following year a Royal Commission was appointed, under the Chairmanship of Mr. Austen Chamberlain, to investigate and report on certain administrative questions relating to Indian finance and currency which had for some years been much discussed particularly in India.

In the North-East of India an expedition, under Gen. Bower, was despatched against the Abors for the punishment of the murderers of Mr. Noel Williamson.

In August, 1913, the demolition of a lavatory attached to a mosque in Cawnpore was made the occasion of an agitation among Indian Mahomedans and a riot in Cawnpore led to heavy loss of life. Of those present at the riot, 108 were put on trial but subsequently released by the Viceroy before the case reached the Sessions, and His Excellency was able to settle the mosque difficulty by a compromise that was acceptable to the local and other Mahomedans.

In October, 1913, it was announced that General Sir Beauchamp Duff had been appointed to succeed Sir O'Moore Creagh as Commanderin-Chief. This was a departure from the long tradition of alternately choosing the Commander-in-Chief from the British and the Indian Army. There were special reasons for the nomination of Sir Beauchamp Duff, who as Adjutant-General in India, and Chief of Staff during Lord Kitchener's term gave proof of his interfered with, thorough knowledge of Indian conditions and by enemy ships.

and 1909 had profoundly modified the duties of the Commander-in-Chief and had conferred on him alone duties formerly divided between the Commander-in-Chief and the Military Member of Council and had made him the administrative head of the Army.

In the latter part of 1913 considerable feeling was aroused in India by the circulation of stories—many of them shown to be unfounded about the ill-treatment of Indians in South Africa. Rioting by Indians in Natal was followed by the appointment by the Union Go-vernment of a Committee of Inquiry at which the Government of India was represented by Sir Benjamin Robertson. The Commission's report afforded the basis of a settlement commonly regarded as equitable. In the autumn of 1914 the Viceroy, at a Council meeting, outlined a reciprocal scheme for controlling emigration in India and in the Colonies, as an alternative to the principle of free migration between all parts of the Empire, for which the Government of India had long contended.

In July the death of Lady Hardinge, wife of the Viceroy, took place in London after an operation. The courage she had displayed at Delhi when the Viceroy was wounded by a bomb, and the sympathetic and active interest she had displayed in the women and children of India, had endeared her to all classes. Her death was widely mourned, and her memory is to be perpetuated by a memorial originated by the Aga Khan.

The various effects of the European war upon India are fully discussed elsewhere. But it must here be set on record that the declaration of war was followed in India by an unprecedented declaration of loyalty on all sides, and the numerous offers of help or personal service made by the Chiefs and peoples aroused in Engmade by the Chiefs and peoples aroused in England a feeling of intense gratitude. A military force which is expected to reach 150,000, was sent from India to Europe and East Africa, within a short time of the outbreak of hostilities. The announcement of that fact was made on the same day that a message from the King-Emperor was published. In it His Imperial Majesty said:—" Amongst the many incidents that have marked the the many incidents that have marked the unanimous uprising of the populations of my Empire in defence of its unity and integrity, nothing has moved me more than the passionate devotion to my Throne expressed both by my Indian and English subjects and by the Feudatory Princes and Ruling Chiefs of India and their prodigious offers of their lives and their resources in the cause of the realm. Their one-voiced demand to be foremost in the conflict has touched my heart and has inspired to the highest issues the love and devotion which, as I well know, have ever linked my Indian subjects and myself." India was not included in the actual theatre of hostilities, except when Madras was subjected to a slight bombardment by the German cruiser "Emden;" but shipping in the Bay of Bengal and in the Arabian Sea was on several occasions interfered with, and several vessels were sunk,

The impulse which drove the British to India was not conquest but trade. The Government of India represents the slow evolution from conditions established to meet trading requirements. On September 24, 1599, a few years before the deaths of Queen Elizabeth and Akbar, the merchants of London formed an association for the purpose of establishing direct trade with the East and were granted a charter of incorpo-ration. The Government of this Company in England was vested in a Governor with a General Court of Proprietors and a Court of Directors. The factories and affairs of the Company on the East and West Coast of India, and in Bengal, were administered at each of the principal settlements of Madras (Fort St. George), Bombay and Calcutta (Fort William), by a President or Governor and a Council consisting of the senior servants of the Company. The three "Presidencies" were independent of each other and subordinate only to the Directors in England.

Territorial Responsibility Assumed. The collapse of Government in India conse-

quent on the decay of Moghul power and the the officers of the French on the East Coast forced the officers of the Company to assume terri-torial responsibility in spite of their own desires and the insistent orders of the Directors. Step by step the Company became first the dominant, then the paramount power in India. In these changed circumstances the system of government by mutually independent and un-wieldy councils of the merchants at the Presidency towns gave rise to grave abuses. Parliament intervened, and under the Regulating Act of 1773, a Governor-General and four councillors were appointed to administer the Presidency of Fort William (Bengal), and the supremacy of that Presidency over Madras and Bombay was for the first time established. The subordinate Presidencies were forbidden to week water to the presidencies. to wage war or make treaties without the pre-vious consent of the Governor-General of · Bengal in Council, except in cases of imminent necessity. Pitt's Act of 1784, which established the Board of Control in England, vested the administration of each of the three Presidencies in a Governor and three councillors, including the Commander-in-Chief of the Presidency Army. The control of the Governordeneral-in-Council was somewhat extended, as it was again by the Charter Act of 1793. Under the Charter Act of 1833 the Company was compelled to close its commercial business, and it became a political and administrative body holding its territories in trust for the Crown. The same Act vested the direction of the entire civil and military administration and sole power of legislation in the Governor-General-in-Council, and defined more clearly the nature and extent of the control to be extended over the subordinate governments. After the Mutiny, there was passed, in 1858, an Act transferring the Government of India from the Company to the Crown, This Act made no important change in the administration in India, but the Governor-General, as represent-ing the Crown, became known as the Viceroy. ing the Crown, became known as the vicinity of the Governor-General is the sole representative of the Crown in India; he is assisted by a Council, composed of high officials, each of whom is responsible for a special department to the appointment of some of the most important officers of the provincial administration.

Functions of Government.

The functions of the Government of India are perhaps the most extensive of any great administration in the world. It claims a share in the produce of the land and in the Punjab and Bombay it has restricted the alienation of land from agriculturists to non-agriculturists. It undertakes the management of landed estates where the proprietor is disqualified. In times of famine it undertakes relief works and other remedial measures on a great scale. It manages a vast forest property and is the principal manufacturer of salt and opium. It owns the bulk of the railways of the country, and directly manages a considerable portion of them; it has constructed and maintains most of the important irrigation works; it owns and manages the post and telegraph systems; it has the monopoly of the Note issue, and it alone can set the mints in motion. It lends money to municipalities, rural boards, and agriculturists and occasionally to owners of historic estates. It controls the sale of liquor and intoxicating drugs and has direct responsibilities in respect to police, education, medical and sanitary operations and ordinary public works of the most intimate character. The Government has also close relations with the Native States which collectively cover more than one-third of the whole area of India and comprise more than one-fifth of its population. The distribution of these great functions between the Government of India and the provincial administrations fluctuates; broadly speaking it may be said that the tendency of the day is to confine the Government of India to control and the Local Governments to administration.

Division of Responsibility.

The Government of India retains in its own hands all matters relating to foreign relations, defence, general taxation, currency, debt, tariffs, posts, telegraphs and railways. The ordinary internal administration—the assess-ment and collection of revenue, education, medical and sanitary arrangements, and irri-gation, buildings and roads, fall within the purview of the Local Governments. In all these matters the Government of India exercises a general and constant control. It prescribes lines of general policy, and tests their application from the annual administration reports of the Local Authorities. It directly administers certain Imperial departments, such as Railways, Post Office, Telegraphs, the Survey of India and Geology; it employs a number of inspecting officers for those departments primarily left to Local Governments, including Agriculture, Irrigation, Forests, Medical and Archeology. It receives, and these matters the Government of India exer-Medical and Archeology. It receives, and when necessary modifies, the annual budgets of Local Governments; and every new appointment of importance, and every large addition even to minor establishments has to receive its specific sanction. There also exists a wide field of appeal to the Government of India from officials or private individuals who may feel themselves aggrieved by the action of Local Governments; and outside the Presi-dencies of Madras, Bombay and Bengal, the approval of the Governor-General is necessary

The supervision of the principal Native States | a Minister rests directly with the Governor-General in-Council, but Local Governments have also responsibilities in this direction, where important States have historical association with them, and in the case of minor States.

Personnel of the Government.

The Governor-General and the "ordinary" members of his Council are appointed by the Crown. No limit of time is specified for their tenure of office, but custom has fixed it at five years. There are six "ordinary" members of Council, three of whom must, at the time of their appointment, have been at least ten years in the service of the Crown in India, one of the three remaining members must be a Barrister, the qualifications of the fifth and sixth are not prescribed by statute. The Indian civilians hold respectively portfolios of Land Revenue and Agriculture, the Home, the Finance and the Education Departments. The Law Member has charge Legislative Department, and of the Legislative Department, and a member with English official experience has charge of the Commerce and Industry Department. The Viceroy acts as his own member in charge of Foreign affairs. Railways are administered by a Board of three members, whose chairman has the status of a Security. Secretary, and are under the general control of the Commerce and Industry Department. The Commander-in-Chief may also be and in practice always is, an "extraordinary" member of the Council. He holds charge of the Army Department, The Governors of Madras, Bombay and Bengal become "extraordinary" members if the Council meets within their Presidencies. The Council may assemble at any place m India which the Governor-General appoints; in practice it meets only in Delhi and Simla.

Business Procedure.

of State, and has the ordinary departmental ma voice in matters But any question of special importance, and any matter in which it is proposed to over-rule the views of a Local Government, must ordinarily be referred to the Viceroy. Any matter originating in one department which also affects another must be referred to the latter, and in the event of the Departments not being able to agree, the case is re-ferred to the Viceroy. The Members of Councli meet periodically as a Cabinet—ordinarily once a week—to discuss questions which the Viceroy desires to put before them, or which member who has been over-ruled by the Viceroy has asked to be referred to Council. If there is a difference of opinion in the Council the decision of the majority ordinarly prevails, but the Viceroy can over-rule a majority if he considers that the matter is of such grave importance as to justify such a step. Each departmental office is in the subordinate charge of a Secretary, whose position corresponds very much to that of a permanent Under Secretary of State in the United Kingdom, but with these differences—that the Secretary is present at Council meetings; that he attends on the Viceroy, usually once a week, and dis-cusses with him all matters of importance arising in his Department; that he has the right of bringing to the Viceroy's special notice any case in which he considers that the Viceroy's concurrence should be obtained to action proposed by the Departmental Member of Council; and that his tenure of office is usually limited to three years. The Secretaries have under them Deputy, Under and Assistant Secretaries, together with the ordinary clerical establishments. The Secretaries and Under-Secretaries are usually members of the Indian Civil Service. The Government of India has no Civil Service of its own as distinct from that Business Procedure.

of the Provincial Governments, and officers her of Council is largely in the position of borrowed from the Provinces.

Government of India.

VICEROY AND GOVERNOR-GENERAL OF INDIA.

His Excellency the Right Hon. BARON HARDINGE OF PENSHURST, G.C.B., G.M.S.I., G.C.M.G.. G.M.I.E., G.C.V.O., I.S.O., assumed charge of office, 23rd November, 1910. PERSONAL STAFF OF THE GOVERNOR-GENERAL

Private Secretary, Sir J. H. Du Boulay, K.C.I.B. | Military Secretary, Liout.-Col. F. A. Maxwell, v.c., c.s.i., D.s.o., 18th Lancers.

Comptroller of the Household, Capt. J. Macken-zie, c.i.E., 35th Sikhs.

Ast. Private Secretary, H. A. F. Metcalfe, I.C.S.

Ailes-de-Camp, Muir, Capt., 15th Sikhs; Stephens, Capt. R., Oxf. and Bucks, L. I.; Molineux, Lt. G. K. North'd. Fus; Mit Sing. I. O. M. Subdr.-Major., Saradar Bahadur, 53rd Sikhs; Muhi-ud-din Khan, Risaldar-Mai Rabedur, 21t Lancer. Maj., Bahadur, 31st Lancers.

Honorary Aides-de-Camp, Lumsden, Capt. W. R. N., C.V.O.; Burt, the Hon'ble Hony. Col., Sit H. P., K.C.I.E., V. D., N. W. Ry. Vol. Rifles; Stanyon, Hony. Col. H. J., C.I.E., V. D., Nagpur Vol. Rifles; Cuffe, Hon. Lt.-Col. O.F.L.W., V. D., Upper Burna Vol. Rifles; Mackenzie, Hony. Col. C. A., Southern Provinces Mounted Ri; Agabeg, Hony, Col. F. J., Chota Nagpur Light Horse; Grice. Hony. Col. W. T., V. D., 1st Battalion, Calcutta Vol. Rifles; Knowles, Hony. Col. J. G. C.I.E., V.D., Surma V.L. Horse; Warburton, Hony. Col. H. G., Luck. V. Rifles; Pugh. Hony. Col. A. J. V. D., Calcutta Light Adjunt of Body Guard, Lleut. J. R. V. Sherston, Horse; Graham, Hon'ble Capt. W. L. C.,

I. A. Res of Officers; Reed, Hony. Lt.-Col. H. Stanley, Bombay Light Horse; Muham. mad Ali Beg, Hony. Lt.-Col. Sir Mawah Bahadur, K.C.I.E., M. V. O., Commanding H. H. the Nizam's Forces; Zorawar Singh, Capt. Commandant, Bhawnagar Imperial Service Lancers; Maharaj Sher Singh, Commadant, 2nd Sardar Risala, Jodhpur Imperial Service Troops.

Wali Muhamad, Risaldar-Major, (Hony. Capt.) cui munamaa, Kisaldar-Major, (Hony. Capt.) Sardar Bahadur, late Governor.-General's Body Guard, Abdul Aziz, Risaldar-Maj. (Hony Capt.) Sardar Bahadur, late 5th Cav. Madho Singh Rana, Subadar-Major (Hony. Capt.) Sardar Bahadur, late 4 G. R., Abdul Karim Khan, Risaldar-Major, (Hony. Capt.) Sardar Bahadur, late Governor.-General's Rody-Guard Body-Guard.

Indian Aides-de-Camp, Abdul Karim Khan-Risaldar Major, Sardar Bahadur, G. G.'s Body Guard; Mit Singh, Subadar Major, Sardar Bahadur, 53rd Sikhs.

Ordinary Members-

COUNCIL.

Sir R. W. Carlyle, K.C.S.I., C.I.E. Took his seat, 4 July, 1910. Sir S. H. Butler, K.C.S.I., C.I.E. Took his seat, 15 November, 1910. Sir K. Ali Imam, C.S.I. Took his seat, 21 November, 1910. (Law,

W. H. Clark, C.S.I., C.M.G. Took his seat, 24 November, 1910. (
Sir R. H. Craddock, K.C.S.I. Took his seat, 27 January, 1912.
Sir William Meyer, K.C.I.E., Took his seat, 28 June, 1913.

Extraordinary Member-

H. E. Gen. Sir B. Duff, G.C.B., K.C.S.I., K.C.V.O., A.D.C., Commander-in-Chief in India. Took his seat, 8th March 1914.

SECRETARIAT.

REVENUE AND AGRICULTURE DEPARTMENT. Secretary, Hon. Mr. L. J. Kershaw, C.I.E.

Inder Secretary, F. Noyce.

Inspector-General of Forests, G. S. Hart.

Assistant Inspector-General of Forests, G. E. S. Cubitt.

Registrar, J. D. Shapcott.

Superintendents, W. A. Threlfall, C. H. Martin, L. E. Kershaw, T. McDonnell. FINANCE DEPARTMENT.

Ordinary Branch. Secretary, The Hon. Mr. J. B. Brunyate, C.I.E.

Deputy Secretary, F. W. Johnston, C.I.E. Under Secretary, E. Burdon.

Assistant Secretary, B. N. Mitra.

Assistant Secretary, B. N. Milles. Registrar, E. W. Baker, I.S.O. Additional Asst. Secretary, H. L. French, I.S.O. Superintendents, M. H. Khan, A. V. V. Alyer, B.A., G. W. C. Bradey, G. T. Piper, C. N. Chakarty, A. Hyde. Comptroller and Auditor-General, R. A. Gamble.

Controller of Currency, H. F. Howard.

Military Finance Branch.

Financia Adviser, Hon. Mr. W. H. Michael. Military Accountant-General and ex-officio De-puty Financial Adviser, Col. B. W. Marlow,

C.I.E., I.A.

Deputy Financial Adviser, W. C. Ashmore.

Military Deputy Accountant-General and ex
officio Assistant Secretary, Major E. B. Pea-

cock, I.A. Assistant Financial Adviser, Capt. G. W. Ross;

Assistant Controller, G. H. Cockhen. Registrar. W. C. Gleeson. Superintendents, Lieut. T. A. Duffy,

G. E. Hodges, Condr. E. H. Chapman.

FOREIGN DEPARTMENT.

Secretary, Hon. Lieut.-Col. Sir A. H. Macmahon, G.C.V.O., E.O.I.E., C.S.I., I.A.; A. H. Grant, C.I.E.

(offg.)

Political Secretary, Hon. Mr. J. B. Wood, O.I.E.

Deputy Secretaries, R. E. Holland; H. N. Bolton

Assistant Secretary, Major H. D. St John. Attache, Khan Bahadur Maula Baksh. Registrar, G. W. Marshall, 1.S.O. Superintendents. A. Stapleton, I.S.O.; S. A. Blaker, E. L. Nile, T. G. B. Waugh.

HOME DEPARTMENT. Secretary, Hon. H. Wheeler, C.S.I., C.I.E. Secretary, Hon. H. Wheeler, O.S.I., C.L.E.
Deputy Secretary, C. W. E. Cotton.
Under Secretary, W. Booth Gravely.
Registrar, G. F. Winn.
Superintendents, J. H. Frost, A. S. Lawrence,
Rai Sahib A. C. Kour, H. C. Marsden, P. K.

Basu.

EDUCATION DEPARTMENT. Secretary, Hon. Mr. L. Porter, C.I.E. Joint Secretary, H. Sharp, C.I.E. Assistant Secretary, Dhunwar Maharaj Singh. Superintendents, R. H. Blaker, T. M. Smith, P. A. Collins, L. D. Harington.
Registrar, G. R. Kaye.

LEGISLATIVE DEPARTMENT. Secretary, Sir W. H. Vincent, Kt.
Deputy Secretary, A. P. Muddiman, C.I.E.
Addl, Dy. Secy. Mr. H. T. Cullis. Legal. Asst. S. G. Gupta.
Registrar, T. W. Payne, I.S.O.
Superintendents, S. Ashley Collins and C. H.

Percira.

ARMY DEPARTMENT. Secretary, Hon'ble Maj. Genl. W. R. Birdwood, C. B., C.S.I., C.I.E., D.S.O. Deputy Secretary, Colonel B. Holloway.

Assist. Secretaries, Major A. H. O. Spence,

Major B. B. Graham and Major A. W. Chitty.

Registrar, Mr. A. A. Welan,
Superintendents, W. C. Debenham, Rai Sahib
L. N. Bose (on leave), A. B. Kunning, R.

Tharle-Hughes and P. P. Hypher. PUBLIC WORKS DEPARTMENT.

Secretary, The Hon. Mr. R. P. Russell. Deputy Secretary, P. Hawkins, M.I.C.E. Under Secretary, Cap. H. de L. Pollard Lowsley,

Assistant Secretary, J. E. Lacey, I.S.O. Registrar, W. J. Drake, I.S.O.

Registrar, W. J. Drake, I.S.O.
Superintendente, W. G. Dollman, W. I. Tilden,
R. R. Reaks, H. M. Marchant.
Inepr. Genl. Irrign, M. Nethersole, C.S.I.
Consg. Acht., J. Begg, F.R.I.B.A.
Assts. Archi., F. M. Thomas. [On deputation-as offg. Consg. Acht., Madras.] T. OliphantFoster, F.R.I.B.A., A. N. Peckham.
Blecl. Adviser. J. W. Mearcs, FRAS. MIGE.

Elect. Adviser, J. W. Mearcs, F.R.A.S., M.I.C.E., M.I.E.E.

COMMERCE AND INDUSTRY DEPARTMENT. Secretary, Hon. R. E. Enthoven, C.I.E. Under Secretaries, H. A. F. Lindsay, S. H. Slater. Controller of Patents and Designs .- H. G. Graves.

Registrar, T. O. Drake, I.S.O.
Superintendents, E. P. Jones, H. R. W. Charles,

A. K. Sarkar, B. B. Banarji, S. N. Banarji, C. H. Baldrey.

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Hon. Mr. R. W. Gillan, C.S.I.; A. R. Anderson. Secretary, T. Ryan. Chief Engineer, J. Woodside.
POST OFFICE & TELEGRAPH DEPT.

Director-General of Posts & Telegraphs, Hon. Mr. W. Maxwell, č.i.E., m.y.o.

NORTHERN INDIA SALT REVENUE. Commissioner, I. F. Conolly.

INDO-EUROPEAN TELEGRAPH DEPARTMENT. Persian Gulf and Persian Sections.

Directors, E. E. Gunter; H. W. Smith, C.I.E; W. King-Wood, C.I.E. (offg.), Commander of Cable Steamer "Patrick Stewart," F. W. Townsend.

SURVEY DEPARTMENT.

Surveyor-General of India, Col. Six S. G. Burrard, K.C.S.I., R.E.

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Director, H. H. Hayden, C.I.E., B.A., F.G.S. Superintendents, C. S. Middlemiss, B.A., F.G.S.; E. Vredenburg, B.Sc.; F.G.S., L. L. Fermor, D.S.C.; F.G.S. Chemist, W. A. K. Christle, B.SC., Ph.D.

BOTANICAL SURVEY.

Director, Major A. T. Gage, M.B., I.M.S.; Economic Botanist, H. G. Carter, M.B.A.B.; Economic Botanist, Madras, F. R. Parnell; Economic Botanist, Bombay, W. Burns, B.Sc.; Economic Botanist, United Provinces, H. M. Leake, M.A., P.L.S.

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MISCELLANEOUS APPOINTMENTS.

Director-General, Indian Medical Service. Surg. Gen. Sir C. P. Lukis, K.C.S.L., M.D., FR.C.S., K.H.S., I.M.S.

Sanitary Commissioner with the Government of India, Major J. C. Robertson, C.I.E., M.B.,

Deputy Director-General, Indian Medical Service, Bt.-Col. B. G. Seton, v.H.S., I.M.S. Asstt., D. G. I.M.S.; Lt.-Col. Jay Gould, M.B., I.M.S.

Asstt. Director General, Service Medical Service (Sany.) Major F. W. White, M.L., I,M.S.

Director, Central Research Institute, Kasauli.
Major W. F. Harvey, M.A., M.B., D.P.H., I.M.S.
Assistants to Director, Central Research Institute,
Kasauli, Major S. R. Christophers, M.B., I.M.S.;
HONT. Lies 10, 2.

Hony. Lieut. C. J. Fox.

Director, Pasteur Institute of India, Kasauli
Major A. G. McKendrick.

Asst. Director, Pasteur Institute of India, Kasauli, Capt. H. W. Acton, I.M.S. Superintendent, X-ray Institute, Dehra Dun, Major A. E. Walter, I.M.S.

Director, King Institute of Preventive Medicine, F. M. Gibson, M.B., B.S.. Asst. Director King Institute of Preventive Medicine, Major W. S. Patton, M.B., I.M.S. Meavene, Major W. S. Patton, M.B., I.M.S. Officer in charge, Biological Laboratory, General Hospital, Calcutta, W. M. Haftkine, C.I.E. Director-General of Indian Observatories, G. T. Walker, C.S.I., M. A. D. Sc., F.R. S. Imperial Meteorologists, G. C. Simpson, D.Sc.;

C. W. B. Normand ; Hem Raj. Director, Kodaikanal and Madras Observatories,

J. Evershed. Director, Bombay and Alibagh Observatories, Bombay, N. A. F. Moos. Director, Aerological Observatory, A4ra, J. H.

Field, M.A.

The Govern	,,,
Secretary, Board of Examiners, Capt. C. I	G.
Secretary, Board of Examiners, Capt. C. 1 Peart, I.A. Officer in Charge of the Records of the Government of India, A. F. Scholfield, M. A. (1994). Librarian, Imperial Library, Calcutta, J. A. Chapman.	2-
Chapman. Agricultural Adviser and director of the Agr.	i-
Agricultural Adviser and director of the Agricultural Research Institute, Puisa. B. Coventry, C.I.E.	
Holmes, I.C.V.D., D.Sc.	
Sind, Baluchistan and Rainutana, Maio	
A. S. Trydell, I.C.V.D. Superintendent of Natural History Section of Indian Museum, N. Annandale, B.A., D.S. Curator, Industrial Section of Indian Museum	3.
D. Hooper, F.C.S., F.L.S. Chief Inspector of Mines G. F. Adams	٠,
D. Hooper, F.C.S., F.L.S. Chief Inspector of Mines, G. F. Adams. Controller of Printing, Stationery and Stamps M. J. Cogswell. Superinted on the Community Printing J.	,,
Meikle	٠.
Superintendent of Linguistic Survey, Sir G. A Grierson, K.O.I.E. (Bengal Annuitant). Chief Inspector of Explosives, LieutCol. C. A	- 1
Muspratt-Williams, R. A. Inspectors of Explosives, Hon. Capt. J. S. Rush Hon. Major J. W. Turner. Administrator Const. 1	.
Haministrator-General of Benjat, H. T. Hyde	
Kinney Director, Criminal Intelligence, Sir C. R. Cleve-land, K.C.I.E. Director-General of Commercial Intelligence	1
H. H. Ley. Director of Statistics G. F. Shirras.	1
Customs and Excise Chemist, R. L. Jenks. GOVERNORS-GENERAL OF FORT WILLIAM IN BENGAL.	
Name. Assumed charge of office.	
Warren Hastings 1774	
Sir John Macnpherson, Bart	;
Clarke, K.O.B. (off)	1
The Earl of Mornington, P.O. (c) 1798 The Marquis Cornwallis, K.G. (2nd time) 1805 Sir George H. Barlow, Bart. 1805	
The Earl of Moire F G D G (a) 1919	1
John Adam (offg.) 1823 Lord Amherst, P.C. (f) 1823 William Butterworth Bayley (offg.) 1828 Lord William Command to Bayley (offg.) 1828	18
William Butterworth Bayley (offg.) 1828 Lord William Cavendish Bentinck,	6
Lord William Cavendish Bentinck, G.C.B., G.C.H., P.C. 1828 (a) Created Marquess Cornwallis, 15Aug., 1792. (b) Afterwards (by creation) Baron Teignmouth.	0
	1
	0
mouth. (c) Created Marquess Wellesley, 2 Dec., 1799. (d) Created Earl of Minto, 24 Feb., 1813. (e) Created Marquess of Hastings, 2 Dec., 1816. (f) Created Earl Amherst, 2 Dec., 1826. GOVERNORS-GENERAL OF INDIA. Assumed	0
mouth. (c) Created Marquess Wellesley, 2 Dec., 1799. (d) Created Earl of Minto, 24 Feb., 1813. (e) Created Marquess of Hastings, 2 Dec., 1816. (f) Created Earl Amherst, 2 Dec., 1826. GOVERNORS-GENERAL OF INDIA. Assumed charge	0
mouth. (c) Created Marquess Wellesley, 2 Dec., 1799. (d) Created Earl of Minto, 24 Feb., 1813. (e) Created Marquess of Hastings, 2 Dec., 1816. (f) Created Earl Amherst, 2 Dec., 1826. GOVERNORS-GENERAL OF INDIA. Assumed charge of office.	0

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٠.	Lord Ellenborough, P.C. (c) 1842
	William Wilberforce Bird (offg.) 1844
•	The Right Hon. Sir Henry Hardinge; G.C.B. (d) 1844
	Viscount Canning, P.C. (f) 1856
-	(a) Afterwards (by creation) Baron Metcalfe.
•	(b) Created Earl of Auckland, 21 Dec., 1839.
	(c) Afterwards (by creation) Earl of Ellen-
•	l borough.
,	(d) Created Viscount Hardinge, 2 May, 1846.
ŕ	(e) Created Marquess of Dalhousie, 25 Aug., 1849.
	(f) Afterwards (by creation) Earl Canning.
	Your The Covernor Conerel second to
•	be the direct Head of the Bengal Government
,	from the 1st May, 1854, when the first Lieute-
	nant-Governor assumed office. On 1st April,
,	1912, Bengal was placed under a separate
	Governor and the appointment of Lieutenant- Governor was abolished.
•	
	VICEROYS AND GOVERNORS- GENERAL OF INDIA.
•	l
	Assumed
	Name. charge of office.
	Viscount Canning, P.C. (a) 1858
	The Earl of Elgin and Kincardine,
ı	
Į	Major-General Sir Robert Napier,
	K.C.B. (b) (offg.) 1863 Colonel Sir William T. Denison,
ļ	K.C.B. (offg.) 1863
ı	The Right Hon. Sir John Lawrence,
1	Bart., G.C.B., K.C.S.L (c) 1864
Í	The Earl of Mayo, K.P 1869
ı	John Strachey (d) (offg.) 1872 Lord Napier of Merchistoun, K. T. (e)
١	(offa.) 1872
ĺ	Lord Northbrook, P.C. (f) 1872
l	Lord Lytton, G.C.B. (g) 1876
١	The Marquess of Ripon, K.G., P.C 1880
١	The Earl of Dufferin, K.P., G.C.B., G.C.M.G., P.C. (h) 1884
l	The Marquess of Lansdowne, G.C.M.G. 1888
l	The Earl of Elgin and Kincardine, P.C. 1894
l	Baron Curzon of Kedleston. P.C
l	Baron Ampthill (offg.) 1904
I	Baron Curzon of Kedleston, P.C
١	Baron Hardinge of Penshurst, P.C.,
ı	G.C.B., G.C.M.G., G.U.V.O., J.S.O (i) 1910
١	(a) Created Earl Canning, 21 May, 1859.
l	(b) Afterwards (by creation) Baron Napier (of
١	Magdala). (c) Afterwards (by creation) Baron Lawrence.
1	

(d) Afterwards Sir John Strachey, G.C.S.I., C.I.E. (e) Afterwards (by creation) Baron Napier of Ettrick.

(f) Afterwards (by creation) Earl of Northbrook.

brook.
(g) Created Earl of Lytton, 28 April, 1880.

(h) Created Marquis of Dufferin and Ava, 12 Nov. 1888.

(i) During tenure of office, the Viceroy is Grand Master and First and Principal Knight of the two Indian Orders (G.M.S.I., and G.M.I.E.). On quitting office, he becomes G.C.S.I. and G.C.I.E., with the date of his assumption of the Viceroyalty.

The Imperial Legislative Council.

The constitution of the Executive Council | General's disposal to secure experts on special of the Government of India has been sketched; for the purposes of legislation, and to bring the administration into close touch with public opinion, the Executive Council is expanded by additional members into a great legislative assembly. The first step was taken in 1861, when the Indian Councils Act provided that, for the better exercise of the power of making laws and regulations vested in the Governor-General-in-Council, he should nominate "Additional" members for the purposes of legislaactions in memors for the purposes of registration only. The additional members were appointed for two years and joined the Council when it met for legislative purposes. The maximum number of members fixed by the Act was twelve, of whom not less than one half were to be non-officials (holding no office under the Government) and in practice most of the non-officials were natives of India. Similar legislative councils were constituted in some of the provinces, but the growth of these bodies will be considered when we come to deal with the provincial administrations.

The Act of 1892.

In 1892 important additions were made both to the constitution and the powers of the Legislative Council. The number of Additional members was raised to sixteen, and the whilst the method of appointment was, as before, nomination by the Governor-General, a certain number of nominations were made on the recommendation of specified persons, bodies and associations and in practice these recommendations were never refused. Of the sixteen Additional members, six were usually officials and ten non-officials. Four of the non-officials were nominated on the recommendation of the non-official members of the provincial Legislative Councils, the fifth was recommended by the Calcutta Chamber of Commerce, and the remaining five were chosen by the Governor-General, either with a special view to the legislative business to be transacted. or to secure the due representation of all classes. The Council was also empowered to discuss the budget and to ask questions on matters of public interest.

Morley-Minto Reforms.

The Imperial Legislative Council took its present shape under what is commouly called the Morley-Minto reform scheme of 1909, and was embodied in the Indian Councils Act of that year. Two principles run through this scheme (1) to secure the fair representation of all the varied interests in the country and (2) to give the Council a real influence in determining the character of the administration. The Imperial Legislative Council now consists of sixty Additional members, of whom thirty-five are nominated by the Governor-General and twenty-five are elected by specified electorates. Of the nominated members not more than twenty-eight may be officials, and three others who must not be officials must be compared by the Muhamadeus of the Purish. nominated by the Muhamedans of the Punjab, the landholders of the Punjab, and the Indian commercial community respectively.

subjects or representatives of minor interests.
Of the twenty-five elected members, eleven are selected by the non-official members of the provincial Legislative Councils, two by each of the four largest provinces and one by each of the three other provinces. A twelfth is elected by the District and Local Boards of the Central Provinces, as that administration has no legislative council. Six members are elected by electorates of landowners in six provinces, five by the Muhamedan community in each of the five provinces, and two by the Chambers of Commerce in Calcutta and Bombay. The Governor-General-in-Council has the exceptional power of excluding a candidate whose reputation and antecedents are such that his election would be contrary to the public interest. An oath, or affirmation of loyalty to the Crown is required of every member before he takes his seat. Members hold office for three years, and each triennlum there is a general election for the Council.

Powers of the Council.

The additions to the non-legislative powers of the Council by the Act of 1909 were also substantial. The Council can exercise a material influence on the Budget. The Finance Member first presents the preliminary estimates with an explanatory memorandum. On a subsequent day he makes such further explanations as he thinks necessary. Members can thereupon move resolutions regarding any proposed alteration in taxation, any proposed loan, or any additional grant to Local Governments. When these resolutions are voted upon, the estimates are taken by groups, and resolutions may be moved on any heads of revenue or expenditure. Certain heads, as for instance, Customs and the Army, are excluded from discussion. The Finance Member takes these discussions into consideration, and then presents his final budget. He describes the changes made, and why any resolucribes the changes made, and why any resonations that have been passed have not been accepted. A general discussion of the budget then takes place, but no resolution may be moved, or vote taken. Government is not bound to act upon the resolution of the Council. This power is never likely to be used, because the Government has an official maintry or that how. This effect maintry or that how. used, because the Government has an onuceasmajority on that body. This official majority was specially prescribed by the Secretary of State, because as Parliament is, in the last resort, responsible for the good government of India, the British Government, through its continues the Secretary of State must have mouthpiece, the Secretary of State, must have the means of imposing its will on the Government of India.

Apart from the Budget debates, members of Council now have the right to initiate the discussion of any question of public interest at any sitting of the Council by moving a reoulution. The right of interpolation has also been expanded by the power of asking supplementary of the po mentary questions in order to elucidate a reply given to an original question. The President of the Council may disallow any question which; Indian commercial community respectively. in his view, cannot be answered consistently The remaining four seats are at the Governor- with the public interests.

Control over Legislation.

The legislative powers of the Imperial Legislative Council are still regulated by the Act of 1861. Certain Acts of Parliament under which the Government of India is constituted cannot be touched and no law can be made affecting the authority of Parliament or alle-giance to the Crown. With these exceptions the legislative powers of the Governor-Generalin-Council over the whole of the British India are unrestricted. Measures affecting the public debt, or the revenues of India, the religion of any of his Majesty's subjects, the discipline or any or his halvesty's subjects, the discipline or maintenance of the military or navai forces, and the relations of the Government with foreign states cannot be introduced by any member without the previous sanction of the Governor-General. Every Act requires the "Hon'ble Mr." during their term of office.

Governor-General's assent. The assent of the Crown is not necessary to the validity of an Act, but the Crown can disallow any Act that has been passed:

Apart from these legislative powers the Governor-General-in-Council is authorised to make, without calling in the Additional Members, regulations having the force of law for the less advanced parts of the country, where a system of administration simpler than that in force elsewhere is desirable. In cases of emergency the Governor-General can, on his own authority and without reference to his Council, make Ordinances which have the force of law for six months.

A .- Elected Members. (Not to be less than 27.)

	(1100 10 00 100	0 WIWH 41.	,	
_		Date	Date of	
Se-	l	of com-	expiry	
rial	Name.	mence-	of term	Electorate,
No.		ment of		
	1	office.	office.	
1	Nawab SaiyidMuhammad SahibBahadur.	11-1-13	10-1-16	Non-official Member, Madras.
2	Mr. Chakravarti Vijiaraghavachariar		Do.	Do. Do.
3	Sir Ibrahim Rahimtoola, Kt., C.I.E.	-	Do.	Do. Bombay.
4	Mr. Gopal Krishna Gokhale, C.I.E.	Do.	Do.	Do. Do.
5	Babu Surendra Nath Banerji	15-2-13		
6	Maharaja Ranajit Sinha of Nashipur	1 n-	Do.	Do. Do.
7	Pandit Bishan Narayen Dar	18-9-14		
•	I did dio Distilli I did y Ch Dui	100		Provinces.
8	Pandit Madan Mohan Malaviya	22-1-13	Do.	Do. Do.
ğ	Sardar Daljit Singh of Juliundur	11-1-13	10-1-16	
10	Maung Myé	28-12-12	27-12-15	Do. Burma.
îĭ	Mr. Madhu Sudan Das, C.I.E		24-1-16	
	mi, maana caana 200, 00000			Orissa.
12	Srijut Ghanasyam Barua	í 11 –1– 13	10–1–16	Non-Official Member, Assam.
13	Mr. M. B. Dadabhoy	22-1-14		District Councils and Muni-
	12. 12. 2. 2. a.a.a.a.a.			cipal Committees. Central
		!	i	Provinces.
14	Rama Rayaningar Venkataranga Baha-	18-1-13	17-1-16	Landholders, Madras.
	dur of Panagallu.			
15	Meherban Sardar Khan Bahadur Rus-	7-1-13	6-1-16	Do. Bombay.
	tomji Jehangirji Vakil of Ahmedabad.		1	(Sardars of Gujarat.)
16	Maharaja Manindra Chandra Nandi of	22-1-13	21-1-16	Landholders, Bengal.
	Kasimbazar.		1	
17	Raja Kushalpal Singh, M.A., LL.B., of	22-2-13	27-12-15	
	Kotla,	i	ĺ	Provinces.
		1		(Landholders of Agra.)
18	Maharaj-Kumar Gopal Saran Narain Singh	28-12-12	27-12-15	Do. Bihar and
	of Tikari.			Orissa.
19	Sir Gangadhar Madho Chitnavis, K.C.I.E	11–1–13	10-1-16	Do. Central
				Provinces.
20	Khan Bahadur Mir Asad Ali Khan	18–1–13	17-1-16	Muhammadan Community,
				Madras.
21	Sir Fazulbhoy Currimbhoy Ebrahim Kt.	11-1-13	10-1-16	Do. Bombay.
22	Mr. Abdul Karim Abu Ahmed Ghuznavi	22-1-13	21-1-16	Do. Bengal.
23	Raja Sir Muhammad Ali Muhammad	18-1-13	17-1-16	Muhammadan Community,
	Khan, R.C.I.E., Khan Bahadur, of	ĺ		United Provinces.
	Mahmudabad.		70 1 70	Do. Bihar and
24	Mr. Qumrul Huda, Barat-law	11-1-13	10-1-16	Do. Dinar and Orissa.
	3r. p. c. 3r. 112	00.4	07 10 15	Bengal Chamber of Com-
· 25	Mr. R. G. Monteath	0-0-14	21-12-15	merce.
	W- 35 70 70-13	4 4-14	Do.	Bombay Chamber of Com-
26	Mr. M. F. Reid, C.I.B			merce.
27	Raja Salyid Abu Jafar of Pirpur	18_1_19	17-1-16	Muhammadan Landholders,
	Kaja Salyid Abu Jafar of Pirpur	10-1-10	_,	United Provinces.
	<u></u>			<u> </u>

B .- Nominated Members.

(Not	io exceed	33.)
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	(1106 10 16	20000 33.)		
Serial No.	Nаще.	Date of Com- mence- ment of office.	Date of expiry of term of office.	Province or body represented.
1 2 3 4 5 6 7 8 9 10 11 12 3 14 5 16 7 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Mr. W. H. Cobb Mr. A. H. Diack, c.v.q. Mr. W. F. Rice, c.s.i Mr. J. Walker, cl.E. Mr. J. Walker, cl.E. Lt. Col, Denys Brooke Blakeway, c.i.e. Sir H. P. Burt, K.C.I.E., v.D. Mr. L. C. Porter, c.i.E. Mr. J. B. Wood, c.i.e. Mr. J. B. Wood, c.i.e. Mr. H. Sharp, c.i.e. Sir W. H. H. Vlucent, Rt. Mr. R. E. Enthoven, c.i.e. Mr. H. Wheeler, c.i.e. Mr. W. Maxwell, c.i.e., M.v.o. Mr. W. H. Michael Mr. R. P. Russell Mr. J. B. Brunyate, c.i.e. Mr. J. B. Brunyate, c.i.e. Msjor-General W. R. Birdwood, c.b., c.s.i., c.i.e., D.s.o. Surgeon-General Sir C. P. Lukis, K.C.s.i. Mr. G. H. B. Kenrick, K.C., Li.D.	12-9-14 3-1-14 3-1-13 13-12-13 20-12-13 13-12-13 22-5-14 21-1-13 25-14 4-4-14 23-12-10 Do. Do. Do. Do. 19-4-13 10-5-13 6-12-13	10-1-16 Do. Do. Do. Do. Do. Do. 21-1-16 20-1-16 Do. 22-12-13 20-1-10 Do.	
27	Major J. C. Robertson, C.I.E., I.M.S. (b) NON-OFFICIAL MEMBERS. Rai Sitanath Ray Bahadur	22-2-13 22-1-13		Indian Commercial Commu-
2	Malik Umar Hyat Khan, C.I.E., M.V.O., Tiwana. Hony, LtCol. Raja Jai Chand, C.S.I.,	11-1-13		nity. Muhammadan Community Punjab.
4	oi Lambagraon.	Do. 12-4-13	Do. 11-4-16	Landholders, Punjab.

Present Constitution of the Council.

I.—The whole Council.

By the proviso to Regulation I for the Legislative Council of the Governor-General it is declared that it shall not be lawful for the Governor-General to nominate so many non-official persons that the majority of all the Members of the Council shall be non-officials. Officials-

(b) (c)	The Lieutenant-Gover Nominated Members	HOL O	Ciner	Comm			Provin	ice (1)		••	27
			• • •	••	• •	• •	• •	• •	• •	• •	
Non-Officia	ıls (2)—								Total	••	35
(a) (b)	Elected Members Nominated Members	••				٠					27
(0)	Nonmaced Believes	••	• •	••	••	••			• •		5
•	official majority, exclusi		the C-			_			Total	• •	32
	ndian Conneils Act 19	11.—	The A	ddation	al Maw	al hera	••	••	• •	• •	3

The Indian Councils Act, 1861, section 10, provides that not less than one half of the Additional Members (exclusive of the Lieutenant-Governor or Chief Commissioner of the Province (1) in which the Council may for the time being be assembled) shall be non-officials.

(Present number of Additional Members (Officials (noningtals (noningtals))

exclusive of the Lieutenant-Governor	Non-officials (elect	a) ed and	nomine	ıted)	• • •	26 31
or Chief Commissioner (1) as aforesaid)	Vacancies	• •	•••		- ::	3
			1	otal		60

(For work of Imperial Legislative Council, Session 1914-15, q. v.)

The Home Government.

The Home Government of India represents the gradual evolution of the governing board of the old East India Company. The affairs of the Company were originally managed by the Court of Directors and the General Court of Proprietors. In 1784 Parliament established a Board of Control, with full power and authority to control and direct all operations and concerns relating to the civil and military government, and revenues of India. By degrees the number of the Board was reduced and its powers were exercised by the President, the lineal precursor of the Secretary of State for India. With modifications this system lasted until 1858, when the Mutiny, followed by the assumption of the Government of India by the Crown, demanded a complete change. Under the Act of 1858 the Secretary of State is the constitutional adviser of the Crown on all matters relating to India. He inherits generally all the powers and duties which were formerly vested either in the Board of Control, or in the Company, the Directors and the Secret Committee in respect of the government and revenues of India. He has the power of giving orders to every officer in India, includ-ing the Governor-General, and of directing all business relating to India which is transacted in the United Kingdom.

Secretary of State's Powers.

Of these wide powers and duties many rest on his personal responsibility; others can be performed only in consultation with his Council, and for some of these the concurrence of a majority of the members of his Council is required. The Secretary of State may act without con-The Secretary of State may act without consulting the Council in all matters where he is not expressly required by statute to act as "Secretary of State in Council." Appointments by the Crown are made on his advice. Every official communication proposed to be sent to India must be laid before Council, unsent to India must be said before Council, un-less it falls under either of two reserved classes. One of these is "Secret communications" dealing chiefly with war and peace, relations with foreign Powers and Native States. The others are those which he may deem "urgent." No matter for which the concurrence of a majority of Council is necessary can be treated as either "secret" or "urgent." In ordinary business, for which the concurrence of a majority of Council is not required, the Secretary of State is not bound to follow the advice of the Council. These provisions reserve to the Secretary of State a wide discretionary power of interference with the Government of India which is exercised in accordance with the temperament of the Secretary of State for the time being. But in all matters of finance, the authority is that of the Secretary of State and the Council and is freely exercised.

The Council.

The Council of India originally consisted of fifteen members appointed by the Secretary of State. By an Act passed in 1907 it now consists of such number of members, not being less than ten or more than fourteen, as the Secretary of State may from time to time de-termine. The members hold office for seven years, and this term may, for special reasons of public advantage, which must be laid before

Parliament, be extended for five years more. The majority of the Council must be persons who have served or resided in India for at least ten years, and who have not left India more than five years before their appointment. Most of the members are always men who have held high office in India Several of them have usually belonged to the Indian Civil Service, and have been lieutenant-governors of provinces or members of the Vicerov's Executive Council; others are soldiers, educationists, bankers, or men of diplomatic, official, or mercantile experience. The object aimed at in the constitution of the Council is to give the Secretary of State, who has little knowledge of the details of the Indian administration, the help of a body of experts. In 1907, in connection with the policy of constitutional reform, two Indians, one a Hindu and the other a Mahomedan, were appointed to vacancies in the Council. In future this practice certainly be followed.

The India Office.

Associated with the Sceretary of State and the India Council is a secretariat known as the India Office, housed at Whitehall. The Secretary of State has two Under-Secretaries, one permanent, the other parliamentary, to whom some of his minor duties are delegated. Appointments to the establishment are made by the Secretary of State in Council, but "junior situations" must be filled in accordance with the general regulations governing admission to the Home Civil Service.

The whole cost of the India Office is borne by the revenues of India. It amounts-to £357,000 a year.

Secretary of State.

The Most Hon. The Marquess of Crewe, K.G. P.C.

Under Secretaries of State.

Sir Thomas W. Holderness, K.C.B., K.C.S.I. C. H. Roberts, Esq.

Assistant Under Secretary of State. Lionel Abrahams, C.B.

Council.

Vice-President, Sir Krishna Gobinda Gupta, K.C.S.I.

Lieut.-Col. Sir David W. K. Barr, K.C.S.I. Sir Felix O. Schuster, Bart. Sir Theodore Morison, K.C.I.E. Gen., Sir Charles C. Egerton, G.C.B., D.S.O.

Sir James Thomson, K.O.S.I. Sir Steyning William Edgerley, K.C.V.O., C.I.E. Abbas Ali Baig, C.S.I., IL.D.

Laurence Currie. Sir William Duke.

Clerk of the Council, Lionel Abrahams, C.B.
Deputy Clerk of the Council, James H. Sea-

brooke, C.I.E. Private Secretary to the Secretary of State, Francis

H. Lucas, C.B.

Assistant Private Secretary, J. C. Walton.

Assistant Private Secretary (unpaid), C. T. Clav.

Political A.-D.-C. to the Secretary of State, Lieut.-Col. Sir J. R. Dunlop-Smith, K.C.S.I., C.I.B.

24 Th	e Home (Fover	nment.			
Private Secretary to Sir T. W.	Holderness,		Secretari	es of State fo	r Ind	ia.
R. H. W. Brinsley-Richards. Private Secretary to Mr. C. H. Rol S. K. Brown.			Nat	ne.		ssumed charge of office.
Parliamentary ditto to ditto, Sir H Havelock-Allan, Bart., M. P.	lenry S. M.	Lord 8	Stanley, P.C	. (a)		1858
Correspondence Departm	ents.	Bar	t. (b) .	. Sir Charles V	Wood,	1859
SECRETARIES.			-	Ripon, P.C. (c)	••	1866
Financial, F. W. Newmarch, C. W. Robinson.	S. I., and	The I	int Cranbor Right Hon. e, Bart. (e)	Sir Stafford N		1866 1867
Judicial and Public, Malcolm C. C.	Seton.			ll, K.T., P.C.	••	1868
Military, Gen. Sir E. G. Barrow, Political and Secret, Sir F. A. Hirtz	g.c.b., zel, K.c.b.		Marquis of	Salisbury, P.C.		1874
Public Works, Hermann A. Haines Revenue and Statistics, Francis C.	Drake.	The R	ight Hon.	Gathorne Hardy unt . Cranbrook	, P.C.,	2012
Director-in-Chief of the Indo-Eur graph, Public Works Department,	R. C. Bar-	May	7, 1878 (f)	·· ··	, 14	1878
ker, C.I.E.	ARTMENT :	The M	farquis of	Hartington, P.C.	(g)	1880
Accountant-General, Walter Bad	lock, C.S.I.,	The E	arl of Kimb	perly, P.G		1882
also Director of Funds and Offic	rial Agent to	Lord !	Randolph C	hurchill, P.C.		1885
Administrators-General in Indi STORE-DEPARTMENT—INDIA OFFICE Director-General, Henry J. W. F	BRANCH:-			imberley, K.G.,	P.C.	1886
INDIA STORE DEPOT:—Belvedere beth, S. E., Superintendent of the	Road, Lam- India Store	Cros		Sir Richard Ass P.C., created Vis 1886		1886
Depot, Captain G. T. Wingfield, - REGISTRY AND RECORD DEPART gistrar and Superintendent of 1	TMENT.—Re-		arl of Kim	berley, K.G., P.C	. (3rd	1892
Foster, C.I.B.			•	H. H. Fowler (h)	•••	1894
Miscellaneous Appointme	onte		-	amilton, P.C.	•••	1895
Government Director of Railway			•	St. John Brodri	ck (i)	1903
Sir T. R. Wynne, K.C.S.I., K.C.I.E. Librarian, Fredk. W. Thomas.	M.A., Hon.	The R	ight Hon. J	ohn Morley, O.M. The Earl of C	(j).	1905
Secretary for Indian Students. C. E	. Mallet.	K.G.		Viscount Morl	• •	1910
Educational Adviser to Indian Stud Arnold, C.I.E., Litt. D., M.A. (2 Road, S. W.) Medical Board for the Examination	1, Cromwell	Blac	ckburn, O.M		••	1911
Medical Board for the Examination of the Indian Services—President,	n of Officers	K.G.	. (k) .			1911
Lieut-Col. Sir R. H. Charles, G.	. C.V.O., M.D.,		Afterwards	(by succession)		
J. Anderson, M.B., I.M.S. (retd.)	er, LtCol.	(b) (c)		(by creation Halifax. (by creation)	-,	Viscount
Legal Adviser and Solicitor to Secret Sir S. G. Sale, K.C.I.E.		(c) (d)	ï	Ripon. (by succession)		farquess
Inspector of Military Equipment a Major-Gen. Sir John Steevens,	K.C.B		"	of Salisbury.		arl of
Surveyor and Clerk of the Works, T.	• •	(e) (f)	" •	(by creation Iddesleigh.	•	_
Ordnance Consulting Officer, Lieut. Campbell, C.I.E., R.A.		(6)	"	(by creation) E (by succession		uke of
Officers of the Indian Army attached ral Staff, War Office, Major A. Capt. L. R. Vaughan.	to the Gene- G. Stuart,	(h)	ij	Devonshire. (by creation		Viscount
Consulting Engineer, Sir A. M. Rei Stockbroker, Horace Hubert Scott.	del, K.C.I.E.	(i)	,,	Wolverhamp (by succession		C.S.I. Viscount
INDIAN TROOP ASSIGN — The his	inoge of the	(3)	,,	Midleton. (by creation Morley of B	ı) ¹	Viscount
Troop Service is under the sup- of Rear-Admiral Herbert W. Say Director of Transports at the A	vory, M.v.o., Admiralty.	(k)	**	(by creation) Crewe, K.G.	Marq	uess of

India Council Bill.

Fin July 1913 Lord Crewe, Secretary of State for India, outlined in the House of Lords certain ideas for the reform of the India Council. The purport of these changes was to reduce the number of the Council, and to substitute departments, with certain independent powers, for the Committees which discharge the detailed work of the Council. Nothing more was heard of this scheme until June 1914, when there was published the text of the amending Bill, with an explanatory memorandum thereon.

Text of the Bill.

Appended is the full text of the Bill :-

1.—(1) The Council of India constituted under the Government of India Act, 1858 (which Act as amended by any subsequent enactment is hereinafter referred to as the principal Act), shall consist of such number of members, not less than seven nor more than ten, as the Secretary of State may from time to time determine.

(2) Unless at the time when an appointment is made to fill a vacancy in the Council two at least of the then existing members of the Council were at the time of their appointment domiciled in India, the person appointed to fill the vacancy must be domiciled in India, and unless at such time as aforesaid six at least of the then existing members were at time of their appointment either domiciled in India or were persons who had served or resided in India for at least ten years and had not ceased so to serve or reside more than five years before the date of their appointment, the person appointed to fill the vacancy must be either domiciled in India, or must have served or resided in India for at least ten years and had nave not ceased so to serve or reside more than five years before the date of his appoin ment,

The person appointed to fill a vacancy for which a person domiciled in India is alone eligible shall beselected from amongst the persons whose names appear on a list of persons domiciled in India chosen for the purpose by the members (other than official members) of the Legislative Councils of the Governor General, Governors, Lieutenant Governors and Chief Commissioners, in such manner, subject to such conditions and restrictions, and in such number, as may be prescribed by regulations to be made by the Secretary of State in Council, or by directions issued by the Secretary of State thereunder.

- (3) The yearly salary to be paid to a member of the Council shall be one thousand two hundred pounds, provided that such members appointed after the commencement of this Act who at the date of their appointment shall be domiciled in Indiashall be paid an additional yearly allowance of six hundred pounds.
- (4) Where the Secretary of State is of opinion that a person possessing special qualification as a financial expert should be appointed to be a member of the Council on special terms, he may, after recording in a minute to be laid before Parliament the special reasons for the appointment and the special terms on which the appointment is to be made, make the appointment, and the person so appointed shall, notwithstanding anything in the principal Act, or this Act, hold office

for such term and on such conditions, and shall in respect thereof be entitled to such salary and to such pension, and other rights and privileges (If any) as His Majesty may, by Order in Council, in each case determine.

Provided that not more than one person appointed under this provision shall be a member of the Council at the same time.

- 2.—(1) Notwithstanding anything in section nineteen of the principal Act, it shall not be necessary for an order or communication sent to India or an order in the United Kingdom in relation to the government of India to be signed by a Secretary of State in such cases as the Secretary of State in Council may otherwise direct but every such order and communication shall purport to be made by the Secretary of State in Council.
- (2) For section twenty of the principal Act (which relates to the powers of the Secretary of State to divide the Council into committees, and to regulate the transaction of business in Council) the following section shall be substituted:—
- It shall be lawful for the Secretary of State in Council to make rules and orders for the transaction of business as regards the powers which under the principal Act are to be exercised by the Secretary of State in Council.
- 2rovided that any such rule or order, so far as it affects any matter or question in respect of which the concurrence of a majority at a meeting of the Council is required by this Act, shall not be valid unless made with the concurrence of a majority of the members of Council present at the meeting of Council at which the rule or order is passed."
- (8) Such rules and orders as aforesaid may, notwithstanding anything in sections twentytwo, twenty-four, twenty-five, and twenty-six of the principal Act, provide, as respects such matters as may be specified in the rules and orders,—
 - (a) for enabling powers of the Secretary of State in Council to be exercised otherwise than at a meeting of the Council, and, where necessary for that purpose, for dispensing with any requirement of the principal Act as to the occurrence of the majority of votes of members of Council:
 - (b) for dispensing with the necessity of submitting to Council or depositing in the Council Room for the perusal of members, orders and communications proposed to be sent to India or to be made in the United Kingdom by the Secretary of State, and of recording and notifying to members of Council the grounds on which any order or communication to India has been treated as urgent.
- (4) At a meeting of the Council the quorum shall be three, and meetings of the Council shall be convened and held when and as the Secretary of State may from time to time direct.
- (5) Any document required b the principal Act to be stened by two or more members of the Council, either with or without the countersignature of the Secretary of State, or one of he Under Secretaries or Assistant Duder Secretaries

may be signed in such manner as the rules and orders made by the Secretary of State in Council for the transaction of business in his Council may prescribe, and any such document, if signed in accordance with such rules and orders, shall be as valid as if it had been signed in accordance with the provisions of the principal Act.

- (6) Section twenty-seven of the principal Act (which enables the Secretary of State to send certain secret orders without communicating them to the members of his Council) shall extend to any order, not being an order in respect of which concurrence of a majority at the meeting of the Council is required by the principal Act, which relates to any question gravely affecting the internal tranquillity of India, or the interests of India in any other country, or the peace or security of any part of His Majesty's Dominions, and which in the opinion of the Secretary of State is of the nature to require secrecy, and it is further declared that the said section shall apply to any order which the Secretary of State may send in reply to a despatch received and dealt with by him under section twenty-eight of the principal Act.
- (7) All rules and orders made under this section shall be laid before Parliament as soon as may be after they are made, and if an address is presented to His Majesty by either House of Parliament within the next subsequent thirty days on which that House has sat after any such rule or order is laid before it praying that the rule or order may be annulled His Majesty in Council may annul the rule or order, and it shall henceforth be void but without prejudice to the validity of anything previously done thereunder.

The Bill Explained.

The publication of the Bill was accompanied by a memorandum explaining its provisions in the following terms:—

In the following terms:—

The object of this Bill is to amend the Government of India Act, 1858. The Act of 1858 in transferring the Government of India to the Crown, created the Council of India, defined its powers and those of the Secretary of State and prescribed in great detail the procedure to be followed in the transaction of business.

The Act of 1858 has, as regards the numerical strength of the Council and the conditions of office on it, been amended several times. The procedure for the transaction of business is practically unaltered.

By the Act of 1858 the strength of the Council was fixed at fifteen members, of whom not less than nine were to be persons who at the time of appointment had served or resided in India for ten years and had not last left India more than ten years. The members were to hold office during good behaviour, but were removable upon an address of both Houses of Parlianent. Their salary was fixed at £1,200 a year,

These provisions have since been altered. The Council now consists of such number of members, not less than ten and not more than fourteen, as the Secretary of State may from time to time determine. Nine members must be persons who at the time of appointment had served or resided in India for ten years, and had not hast leit India more than five years. The terms of office is limited to seven years but the Secretary of State may re-amount a member for

a further period of five years. The salary is £1,000 a year. Since 1907 it has been the recognised practice of the Secretary of State to reserve two appointments on the Council for Indians.

The procedure for the transaction of business established by the Act of 1858 cannot be varied by rules. The powers of the Secretary of State in Council may be exercised only at neetings of the Council. A Council must be held every week and a quorum of five members is required. In certain matters, however trivial in themselves, the sanction of a majority of votes at a meeting is required. In other matters the Secretary of State may act alone, but except in cases where secrecy or urgency can be claimed, his proposed order must lie a week on the Council Table before it is sent. The Act contemplates that all business before coming to the Council should be dealt with in Committee, and the Council is divided for this purpose into several Standing Committees.

It is proposed by Clause 1 of the Bill to make certain changes in the strength and composition of the Council, and in the emoluments of the members. Also to take power to make rules for simplifying the business procedure of the Council.

With a simplified procedure much of the unimportant work that now occupies the time of the Standing Committees and the Council would be disposed of by the Secretary of State in communication with and with the assistance of individual members. Committees being specially nominated by him when required. A council of ten to fourteen members would then be needlessly large. It is proposed to fix the number at seven to ten, and to return to the rate of salary (£1,200 a year) allowed by the Act of 1858.

It is further proposed to convert the present practice of appointing two Indians to the Council into a statutory requirement, to provide that they shall be chosen from names submitted by Indian Legislative Councils, and to grant to them an allowance of £600 a year in addition to salary, in view of the expense of residing out of their own country.

Provision is also made to enable the Secretary of State to appoint to the Council a financial member on special terms as to salary, pension and tenure of office. The necessity for an exceptional power of this kind has been recognised by the Royal Commission on Indian Currency.

Clause 2 of the Bill provides for the simplification of business procedure. It enables the Secretary of State in Council to make rules to modify the procedure prescribed by the Act of 1858. The rules as and when made are to be laid before Parliament. The requirement of a weekly meeting of the Council is also dispensed with, and the quorum reduced. The opporsunity is taken to enlarge in a way which experience has shown to be desirable the category of cases which may be denit with by the Secretary of State in his "Secret" Department without informing or consulting his Council.

Reception of the Measure.

not last left India more than five years. The strong Criticism.—The publication of the terms of office is limited to seven years but the Secretary of State may re-appoint a member for criticism. It soon became known in India as

"The Friendless Bill" and "The Bill that Nobody Wants." The main objection to the Bill was that it proposed to substitute for the collective responsibility of the Council the responsibility of Departments, which would in many cases be independent of the Council and work only through the Secretary of State. It was pointed out that these Departments might be pointed out that these Departments might be staffed by officials entirely unacquainted with India, working in conjunction with Members who might have no experience of the Indian administration. Also, that the collective responsibility of the Council would be further reduced by the abolition of the statutory provision requiring it to meet weekly, and placing the convening of the members entirely at the discretion of the Secretary of State. There was further criticism of the discretion proposed to be given to the Secretary of State to transact "Secret" business without the knowledge of his Council. The proposed introduction of the "panel" system for the election of two Indian members was also warmly opposed. During his tenure of office, Lord Morley appointed two Indian members to the Council as part of what is called the Morley-Minto Reform Scheme. The step proved good in practice, and there would pro-bably be no opposition if these two seats were by statute reserved for Indians. But the introduction of the elective element evoked dual criticism. There was no mention of it in Lord Crewe's first outline of his scheme, but resolutions asking that one-third of the Council should be elected were passed by the Indian National Congress and the All-India Moslem League at Congress and the All-India Mosiem League at their sessions in 1913-14, and a small deputation from the Congress was despatched to London to press these views on the Secretary of State. When the deputation was received by its London friends, Lord Courtney of Penwith said that such a fetter on the discretion of the Secretary of State in choosing his advisers was what even the most radical might blench from, and threw out the idea that the unofficial from, and three out the real that the unomeian members of the Imperial and Provincial Legis-lative Councils might elect a "panel" from which the Secretary of State would select his two Indian Councillors. One party contended that the principle was bad, inasmuch as the introduction of the elective element into selection for administrative posts was unsound, especially in Indian conditions, with the result that the elected men would either be publicists without any administrative experience, or administra-tors who had been obliged to bow the knee to the unofficial members of the Councils in order to secure election to the panel. The Indian politicians objected to the panel on the ground that it was useless; they asked for direct election, and election only by the elected members of the Councils to the exclusion of the nominated unofficial members. It is not exaggerating to say that the view of the middle man was that the introduction of the panel brought in a thoroughly bad principle—the making of administrative posts elective—without pleasing the people it was designed to satisfy.

The Bill Rejected .- Lord Crewe set himself to answer these criticisms when moving the First Reading of the Bill in the House of Lords on June 30. Dealing with the panel, he said it had been adopted to remove the fear that the two Indian members would always acquiesce in what was said by the officials, and therefore this "qualified and limited representation has been introduced. From the list (elected by the un-official members of the Imperial and Provincial Legislative Councils) the Secretary of State would in all cases be able to make an adequate selection of men of real ability and administrative experience whose advice would be of great value." Lord Crewe emphatically denied that there was any intention to turn the members of the Councils into purely administrative officers, though a great deal would be done to expedite business by utilising them more as individuals and less as members of standing committees. He repudiated in the most pointed language the suggestion that the Bill was an attempt to aggrandise the powers of the Secretary of State. Lord curzon, representing the Opposition, pursued the unusual course of moving the rejection of grounds thatthe Bill. He did so on the

"It appears to me and to everybody of experience whom I have consulted to be a bad Bill, founded upon radically unsound principles. While affecting to maintain the Council of the Secretary of State, the Bill, as far as I can see, must reduce it, even if retained, to an impotent and costly sham. The measure does affect—if it does not actually destroy—constitutional safeguards which have hitherto surrounded the Secretary of State. It introduces into the composition of his Council a new, an inappropriate, and, as I personally think, a perilous method of appointment in regard to the Indian members, and I greatly doubt whether it really represents the collective wisdom of the noble Marquess' advisers in England or India."

Lord Curzon's criticism followed the broad lines indicated above. The debate extended over two sittings, those who supported, the Bill generally arguing that, though it was not perfect, the India Office stood in such strong need of reform that the wisest course would be to send the Bill to a Grand Committee where it could be shaped into a workable measure. But Lord Curzon pressed his motion for rejection, and on July 7, the Bill was rejected by 96 to 38.

The Provincial Governments.

British India is divided into eight large | cil consisting of two members of the Civil Sermajor provinces are the Presidencies of Madras. Bombay, and Bengal; the Lieutenant-Governorships of the United Provinces, The Punjab. Burma, and Behar; and the Chief Commis-abonership of the Central Provinces. The minor provinces are Assam. the North-West Frontier Province, Baluchistan, Coorg, Ajmere Merwara and the Andaman Islands. The original division of British authority in India was between the Presidencies of Bengal, Madras and Bonbay, Bengal afterwards developed Into and was separated from the Government of India and then was gradually divided into provinces as the tide of conquest brought under administration areas too large to be controlled by a single authority. The status and area of these provinces have been varied from time to time to meet the changed condifrom time to time to neet the changed condi-tions of the day. The most recent of these changes was the separation of the North-West Frontier from the Punjab in 1901; the divi-sion of Bengal into two provinces in 1905; and the final adjustment made in accordance with His Majesty the King's announcement at the Durbar of 1911, whereby the newly-created province of Eastern Bengal and Assam disappeared, and Bengal was re-divided into the Presidency of Bengal, the Lieutenant-Governorship of Behar and Orissa, and the Chief Commissionership of Assam, whilst the beadquarters of the Government of India were moved from Calcutta to Delhi, and the City of Delhi, with an encluse of territory surround-ing it, was taken under the direct administrado of the Government of India. All Local Governments alike are under the superintendence and control of the Governor-General in Council. They must obey orders received from him, and they must communicate to him their own proceedings. But each Local Government is the Executive head of the administration within the province. By custom, all appointments to Local Governments are for a term of five years.

The Three Classes. The three Presidencies occupy a superior position. The Civil administration of each is vested in a Governor-in-Council, appointed by the Crown, and usually drawn from English public life. On certain matters they correspond directly with the Secretary of State. correspond directly with the Secretary of State, a privilege not possessed by other provincial Governments. The Governors are assisted by a Council composed of three members, two members of the Civil Service and, under the Indian Councils Act of 1909, a fourth member who is usually an Indian. Like the Governor-General they are addressed as Your Excellency, and they are escorted by a body-guard. The maximum salaries as fixed by Act of Parliament are Rs. 1,20,000 for a Governor and Rs. 44 000 for a premer of Council por and Rs. 64,000 for a member of Council.

Licutenant-Governors are appointed by the Governor-General subject to the approbation Governor-General subject to the approportion of the Governor-General and may be dis-of the Crown. They must have served for at allowed by the Crown. In constitution, in functions, and in the Councils at power was taken to create executive councils in the Lieutenant-Governor of special electorates, the Legislative councils in the Lieutenant-Governor is assisted by a Coun-library of Bombay.

provinces and six lesser charges, each of which vice and one Indian. Licutenant-Governors is termed a Local Government. The eight are addressed as Your Honour. Their maximalor provinces are the Presidencies of Madras. Parliament.

Chief Commissioners stand upon a lower footing, being delegates of the Governor-General-in-Council. In theory, a Chief Commissioner administers his province on behalf of the Governor-General-in-Council, who may resume or modify the powers that he has himself conferred. In practice, the powers en-trusted to Chief Commissioner of the Central Provinces are as wide as those exercised by a Lieutenant-Governor. The salary of a Chief Commissioner is Rs. 50,000 but in the case of the Central Provinces this was raised to Rs. 62,000 in consideration of the addition

of Berar to his Government.

Provincial Councils.

The changes made in the constitution and non-legislative functions of the Legislative Councils of Madras and Bombay by the Act of 1999 more than doubled the number of members, election by specially constituted electorates was introluced, and powers were given to members to debate and move resolutions on the previousle of the product of the province tions on the provincial financial statements, to move resolutions on matters of general public interest, and to ask supplementary questions. A description of the system in Bombay will show how the scheme works. The Bombay Legislative Council is composed of four actificiates and the scheme works. of four ex-officio members (the three members of the Executive Council and the Advocate-General) and 44 additional members. Of the additional members the Governor nominates twenty-three (of whom not more than fourteen twenty-three (of whom not more than fourteen may be officials) and 21 are elected. The Government is thus without a majority of officials in the Council. Of the elected members, eight are elected by groups of municipalities and the District Boards, four by Mahomedan electorates, and three by electorates of the land-holding classes. The Bombay Univ.rsity, the Bombay Municipal Corporation. the Bombay Chainber of Commerce, the Karachi Chamber of Commerce, and the Millowner's Association, and the Indian Commercial Community, each elect one member. The regulations for the formation of electorates, and as to the qualifications and disqualiand as to the qualifications and disquali-fications of candidates and voters, are similar to those made in the case of the Supreme Council.

The rules for the discussion of the annual The rules for the discussion or the annual financial statement are similar to those applicable to the Supreme Council. The Financial Statement is presented and considered as a whole and then in detail, and resolutions may be moved. The Government is not bound by any resolutions which the Council may pass. Matters of general public interest under the control of Local Governments may be made the subject of resolutions. Laws passed by these Legislative Councils require the sanction of the Governor-General and may be dis-

The Secretariat.

Each Local Government works through a Secretariat, which is divided into various departments, each under a Secretary. In addition to the Secretaries, there are special departmental heads such as the Inspectors General of Public Instruction, the Inspector-General of Public Instruction, the Inspector-General of Civil Hospitals or Surgeon-General the Sanitary Commissioner and the Superintendent of the Civil Veterinary Department. There are also Chief Engineers for Public Works and Irrigation, who are likewise Secretaries to Government. In nearly all the Provinces except Bombay, the revenue departments are administered, under Government, by a Board of Revenue.

The District Officer.

The administrative system is based on the repeated sub-division of territory, each administrative area being in the responsible charge of an officer who is subordinate to the officer next in rank above him. The most important of these units is the District, and India em-braces more than 250 Districts, with an average area of 4,430 square niles and an average population of 931,000. In Madras there is no local officer above the head of the District: elsewhere a Commissioner has the supervision of a Division comprising from four to six Dis-tricts. The head of a District is styled either the Collector and District Magistrate or the Deputy Commissioner. He is the representative of the Government and embodies the power of the State. He is concerned in the first place with the land and the land revenue. He has also charge of the local administration of the excise, income tax, stamp duty and other sources of revenue. As a Magistrate of the first class. he can imprison for two years and fine up to a thousand rupees. In practice he does not try many criminal cases, although he super-vises the work of the other Magistrates in the District.

In addition to these two main departments, the Collector is intorested in all matters pertaining to the welfare of the people. In some brauches of the administration his functionare, in consequence of the formation of special departments, such as those of Public Works, Forests, Jails, Sanitation, and Education less direct than was formerly the case. But even in matters dealt with by separate departments, his active co-operation and direction in counsel are needed. The Municipal Government of all considerable towns is vested in Municipalities but it is the duty of the Collector to guide and control their working. He is usually the Chairman of the District Board which, with he aid of subsidiary boards, maintains roads, schools and dispensaries, and carries out sanitary improvements in rural areas.

Other Officers.

Other important district officers are the Superintendent of Police, who is responsible for the discipline and working of the police force, and the Civil Surgeon, who (except in Bombay) is the head of the medical and sanitary administration. The local organisation of Government Public Works, Forests, Education and other special departments varies in different parts of the country. Each District has its own law officer, styled the Government Pleader.

The Districts are split up into sub-divisions; under Junior Officers of the Indian Civil Service or members of the Provinceal Service called Deputy Collectors. In Madras, Bombay and the United Provinces there are smaller sub-district units called taluks or tahsils, administered by tahsildars (Bombay Mamlatiars); with naib tahsildars or mahalkarris. The tahsildar is assisted by subordinate officers, styled revenue inspectors or kanungos and the village officers. The most important of the latter are the headman who collects the revenue, the karnam, karkun or patwari who keeps the village accounts, and the chaukidar or village watchman.

Administrative Divisions.

	Pr	ovinc	es.			No. of Districts.	Area in Square miles.	Population (1911).
Ajmer Merwar	а		••			2	2,711	501,395
Andamans and		rs					3,143	26,459
Assam.	••			• •	••	12	52,959	6,713,635
Baluchistan						6	45.804	414,412
Bengal			• •		••	28	78,412	45,483,077
Bihar and Ori				••	••	21	83,205	34,490,084
Bombay (Pres	idency)					26	123,064	19,672,642
Bombay		::	::			26	75,918	16,113,042
Sind		::				6	47,066	3,513,435
Aden				•••		••••	80	46,165
Burma						41	236,738	12,115,217
Central Provin	nces and	Bera				22	100,345	13,916,308
Coorg						ī	1,582	174,976
Madras	••		••	••		24	141,726	41,405,404
North-West :			vince	(Dis	tricts	5	16,466	2,196,933
Punjab		••	• •	••	••	29	97,209	19,974,956
United Provin	ices of A	gra &	Oudl	h		48	107,164	47.182.044
Agra						36	83,198	34,624,040
Oudh	••	••	••	••	••	12	23,966	12,558,004
į	Fotal Bri	itish T	Cerrito	ory		. 267	1,097,901	244,267,542

States a	ınd Aı	gencies	•		No. of Districts.	Area in Square miles.	Population (1911).
Baluchistan States Baroda State Bengal States	::	::	::	::		86,511 8,099 32,773	396,432 2,032,798 4,538,161
Bombay States Central India Agency Central Provinces Sta	tes	•	::	::		65,761 78,772 31,188	7,411,567 9,356,980 2,117,002
Eastern Bengal and . Hyderabad State Kashmir State	Assam	States	• • • • • • • • • • • • • • • • • • • •	:: •	••••	82,698 80,900	575,835 13,874,676 3,158,126
Madras States Cochin State Travancore Stat	 e	::	::	::		9,969	4,811,841 918,110 3,428,975
Mysore State North-West Frontic and Tribal areas). Punjab States			. •			29,444	5,808,193 1,622,094
Rajputana Agency	::	::	::	::	::::	36,532 127,541	4,212,794 10,530,432
Sikkim United Provinces St e	tes	::	::	::	::::	5,079	87,920 832,036
Tota	Nati	ive Sta	tes	٠		675,267	70,864,995
Gra	nd To	tal, In	lia	••	••••	1,773,168	815,182,537

The Bombay Presidency.

west coast of India, from Sind in the North to west coast of India, from Sind in the North to great personal rainfall, supplemented by feudatories and Aden, an area of 186,923 square miles and a population of 27,084,317. Of this total 65,761 square miles are in Native States, with a population of 7,411,675. Geographically included in the Presidency but under the great person of turisding rainfall in the Ghats, is the region of the presidency but under the great person of the presidency but under the great person of the presidency but under the greating complete. reudatories and a population of 27,984,317. Of this total 65,761 square miles are in Native States, with a population of 7,411,675. Geographically included in the Presidency but under the cany measured in the resource you must ender the Government of India is the first class Native State of Baroda, with an area of 8,182 square miles and a population of 2,032,798. The outlying post of Aden is under the jurisdiction of the Bombay Government: it has an area of 80 square miles and a population of 46,165.

The Presidency embraces a wide diversity of soil, climate and people. In the Presidency Proper are the rich plains of Gujarat, watered by the Nerbudda and the Tapti, whose fertility by the Neroudua and the laps, whose fertility is so marked that it has long been known as the Garden of India. South of Bombay City the province is divided into two sections by the Western Ghats, a range of hills running parallel to the coast. Above Ghats are the Decean Districts, with a poor soil and an arid climate, south of these come the Karnatic districts. On the sea side of the Ghats is the Konkan, a ricegrowing tract, intercepted by creeks which make communication difficult. Then in the far north is Sind, totally different from the Presidency Proper, a land of wide and monotonous desert except where irrigation from the Indus has brought abounding fertility.

The People.

The population varies as markedly as soil and climate. In Sind Mahomedans predominate. Gujarat has remained true to Hinduism although long under the dominion of powerful Mahomedan kings. Here there is an amplitude of caste divisions, and a people, who although softened by prosperity, are amongst the keenest trading races in the world. The Deccan peasant has heen seasoned by adversity; the saying goes that the Deccan expects a famine one year in every three, and gets it; the population is much more homogeneous than in Gujarat, and thirty per cent. are Mahrattas. The Karnatic is the per cent. are Mahrattas. The Karnatic is the land of the Lingayets, a Hindu reforming sect of the twelfth century, and in the Konkan there is a large proportion of Christians. Four main languages are spoken, Sindi, Gujarati, Marathi and Kanarese, with Urdu a rough lingua franca where English has not penetrated. The main castes and tribes number five hundred.

Industries.

The principal industry is agriculture, which supports sixty-four per cent. of the population. In Sind the soils are wholly alluvial, and under the influence of irrigation produce yearly increasing crops of wheat and cotton. In Gujarat they are of two classes, the black cotton soil, which yields the famous Broach cottons, the finest in India, and alluvial, which under careful cultivation in Ahmedabad and Kaira makes splendid garden land. The dominant soil characteristic of the Deccan is black soil, which produces cotton, wheat, gram and millet, and in certain tracts rich crops of sugar cane. The Konkan is a rice land, grown under the abundant rains of the submontane opening of the Suez Canal and the increasing regions, and in the south the Dharwar cotton size of ocean steamers have tended to concervies with Broach as the best in India. There trate it in modern ports with deep wateranchor-

The Bombay Presidency stretches along the are no great perennial rivers suitable for irridrought. More than any other part of India the Presidency has been scourged by famine and plague during the past fitteen years. The evils have not been unmixed, for tribulation has made the people more self-reliant, and the rise in the values of all produce, synchronising with a certain development of industry, has induced a considerable rise in the standard of living. The land is held on what is known as the ryotwari tenure, that is to say, each culti-vator holds his land direct from Government under a moderate assessment, and as long as he pays this assessment he cannot be dispossessed.

Manufactures.

Whilst agriculture is the principal industry. others have no inconsiderable place. The mineral wealth of the Presidency is small, and is confined to building stone, salt extracted from the sea, and a little manganese. But the handicrafts are widely distri-buted. The handloom weavers produce brightcoloured saris, and to a diminishing extent the exquisite kincobs of Ahmedabad and Surat. Bombay silver ware has a place of its own, as well as the brass work of Poona and Nasik. But the tendency is to submerge the indigenous handicrafts beneath industry organised on modern lines. Bombay is the great centre in India of the textile trade. This is chiefly found in the headquarter city, Bombay, where the industry embraces 2,925,986 spindles and 45,250 looms and employs 110,033 hands and consumes 3,762,983 cwts. of cotton. This industry is now flourishing, and is steadily rising in efficiency. In lieu of producing immense quantities of low grade yarn and cloth, chiefly for the China market, the Bombay mills now turn out printed and bleached goods of a quality which princes and oleached goods of a quanty which improves every year, and the principal market is at home. Whilst the industry centres in Bombay City, there are important offshoots at Ahmedabad, Broach and Sholapur. In Ahmedabad there are 929,702 spindles and 18,039 looms; in Sholapur 222,933 spindles and 3,055 looms; and in the Presidency 4,538,710 spindles and 69,121 looms. It is expected that the prosperity of the Bombay trade will be quickened, when a project, now approaching completion, for the substitution of electricity for steam—the electricity to be generated at a hydro-electric station in the Ghats, fifty miles distant—furnishes cheap and efficient power. Its situation on the western-sea-board, in touch at once with the principal markets of India and the markets of the west, has given Bombay an immense sea-borne trade. The older ports, Surat, Broach, Cambay and Mandvie, were famous in the ancient days, and their bold and hardy mariners carried Indian commerce to the Persian Guif and the coasts of Africa. But the opening of the Suez Canal and the increasing

ages, and the sea-borne trade of the Presidency ! is now concentrated at Bombay and Karachi, although attempts are being made to develop Mormugao, in Portuguese territory, into an outlet for the trade of the Southern Mahratta Country. The trade of Bombay is valued at County. The water of rupes; the foreign trade of the port of Bombay at 1682 crores (imports 94 crores, exports 74 crores); Karachi at 43,08 lakhs (imports 16,43, exports 26,65).

Administration.

The Presidency is administered by a Gover-nor-in-Council. The Governor is appointed by the Crown, and is usually drawn from the ranks of those who have made their mark in English public life. He is assisted by a Council of three members, two of whom are drawn from the Indian Civil Service, and the third in practice is an Indian. Each Member takes special charge of certain departments, and cases where differences of opinion occur, or of special importance, are decided "in Council." All papers relating to public service business reach papers relating to public service business reach Government through the Secretariat, divided into five main departments each under a Secretary (a) Revenue and Financial: (b) Political, Judicial, and Special: (c) General, Educational, Marine and Ecclesiastical: (d) Ordinary Public Works: (e) Irrigation. The senior of the three Chillin Contractics is antitled the Child Secretaria. Civilian Secretaries is entitled the Chief Secretary. The Government frequently moves. It is in Bombay from November to the end of is in homoay from november to the end of March; at Mahableshwar from April to June; in Poona from June to September; and at Mahableshwar from October to November; but the Secretariat is always in Bombay. Under the Governor-in-Council the Presidency is administrated by four Compilerioner Theorems. der ine Governor-in-tounen the Freshaency is administered by four Commissioners. The Commissioner in Sind has considerable inde-pendent powers. In the Presidency Proper there are Commissioners for the Northern Division, with headquarters at Ahmedabad; the Central Division at Poona; and the Southern Division at Belgaum. Each district is under a Collector, usually a Covenanted Civiunder a Conector, usuany a Covenance Civilian, who has under him one or more Civilians as Assistant Collectors, and one or more Deputy Collectors. A collectorate contains on an average from eight to ten talukas, each consisting of from one to two hundred villages consisting of from one to two hundred villages whose whole revenues belong to the State. The village officers are the patel, who is the head of the village both for revenue and police purpose; the talati or kulkarni, clerk and accountant; the messenger and the watchman. Over each Taluka or group of village is the mamilatdar, who is also a subordinate magistrate. The charge of the Assistant or Deputy Collector contains three or four talukas. The Collector and Magistrate is over the whole Collector and Magistrate is over the whole District. The Commissioners exercise general control over the Districts in their Divisions, The control of the Government over the Native States of the Presidency is exercised through Political Agents.

Justice.

The administration of justice is entrusted to the High Court sitting in Bombay, and comprising a Chief Justice, who is a barrister, and six puisme judges, either Civilians, Barristers, or Indian lawyers. In Sind the Court of the Judicial Commissioner (three

judges, one of whom must be a barrister) is the highest court of civil and criminal appeal. Of the lower civil courts the court of the first instance is that of the Subordinate Judge recruited from the ranks of the local lawyers. The Court of first appeal is that of the District or Assistant Judge, or of a first class subordi-nate judge with special powers. District and Assistant Judges are Indian Civilians, or members of the Provincial Service. In cases exceeding Rs. 5,000 in value an appeal from the decision of the Subordinate or Assistant Judge and from the decision of the District Judge in and from the decision of the District Judge in all original suits lies to the High Court. Dis-trict and Assistant Judges exercise criminal jurisdiction throughout the Presidency, but original criminal work is chiefly disposed of by the Executive District Officers. Capital sentences are subject to confirmation by the High Court. In some of the principal cities Special Magistrates exercises summary jurisdiction (Bombay has four Presidency Magistrates, as well as Honorary Magistrates exercising the functions of English Justices of the Peace) and a Court of Small Causes, corresponding to the English Country Courts.

Local Government.

Local control over certain branches of the administration is secured by the constitution of local boards and municipalities, the former exercising authority over a District or a Taluka, and the latter over a city or town. These bodies are composed of members either nominated by Government or elected by the people, who are empowered to expend the funds at their disposal on education, sanitation, the construction of roads and tanks, and general improvements. Their funds are derived from cesses on the land revenue, the toil and ferry funds. The tendency of recent years has been to increase the elective and reduce the nominated element, to allow these bodies to elect their own chairmen, whilst large grants have been made from the general revenues for water supplyand drainage.

Finance.

The finance of the provincial governments is marked by definite steps toward provincial financial autonomy. Up to 1870 there was one common purse for all India. Since then progressive steps have been taken to increase the independence of local Governments. Broadly, certain heads of revenue are divided with the Imperial Government, whilst certain growing heads of revenue, varying in each province, are allotted to the local Government. Thus in Bombay the land revenue, stamp revenue and revenue from assessed taxes are divided with the Government of India. All other local sources of revenue go intact to the local Government. The provincial Budget for 1914-15 loths shows an opening balance of Rs, 178 lakhs, revenue 758 lakhs, expenditure 823 lakhs and the closing balance Rs, 114 lakhs. These larg balances are due to grants from the Imperial Governments for non-recurring expenditure.

Under them are Superintending Engineers in charge of divisions and Executive Engineers in charge of districts, with the Consulting Architect. The chief irrigation works are in Sind and consist of a chain of canals fed by the annual inundations from the Indus and one perennial canal the Jamrao. In the Presidency proper the principal protective works are the Nera Canal, Gokak Canal, Mutha Canal and a large number of tanks. In addition there is under construction a chain of protective irrigation works, originating in reservoirs in the Ghat regions. The first of these the Godavari Scheme, is now in operation, the Pravara Scheme is in progress and the Nira Scheme has recently been sanctioned. The Public Works budget for the current year is 90 lakhs of rupees.

Police.

The Police Force is divided into three categories: District Police, Railway Police and the Bombay City Police. The District Police are under the Inspector-General who is either a member of the Gazetted Force or a Covenanted Civilian. Under him are the Deputy Inspector-Generals for Sind and the Northern and Southern Ranges of the Presi-dency proper, for Railways and for Criminal Investigation. District Superintendents Police have charge of each District with a regular cadre comprising Assistant Superintendents, Sub-inspectors, Chief Constables and Constables. The Bombay City Police is a separate force maintained by Government under a Commissioner who is responsible direct to Government. The Training School at Nasik prepares young gazetted officers and the rank and file for their duties. The cost of the Police is 106 lakhs.

Education.

Education is imparted partly through direct Government agency, partly through the medium of grants-in-aid. Government maintain Arts Colleges at Bombay, Poona and Gujarat; the Grant Medical College, the Poona College of Science, the Agricultural College, Veterinary College, School of Art, Law School and a College of Commerce A Science School and a College of Commerce. A Science College in Bombay is now in course of construction. Also in Bombay City, and the headquarters of each district, a model secondary school. The other secondary schools are in private hands; the majority of the primary schools are maintained by District and Local schools are maintained by District and Local Boards with a grant-in-aid. The Bombay Municipality is responsible for primary education in Bombay City. There are now in the Presidency 15 Arts Colleges; 607 Secondary Schools; 14,061 Primary schools; 137 Schools for Special Instructions; 3,094 Private Institutions, with 956,297 scholars. The Government Educational Pulgate is 109 labels. ment Educational Budget is 102 lakhs.

The Educational Department is administered by a Director, with an Inspector in each Division and a Deputy Inspector with Assistants in each district. Higher education is controlled by the Bombay University (established in 1857) consisting of the Chancellor (the Governor of the Presidency), the Vice-Chancellor (appointed by Government for two years), and 110 Fellows of whom 10 are ex-officio; 10 J. Crerar, I.C.S., J.P., Private Secy. elected by the Graduates, 10 by the Faculities, and 80 are nominated by the Chancellor.

J. Crerar, I.C.S., J.P., Private Secy.

Major J. G. Greig, C.I.E., 121st Pioneers; Military Secy.

The principal educational institutions are: -

Government Arts Colleges-Elphinstone College, Bombay, Principal Wilkinson.

Deccan College, Poona, Principal Mr. J. Bain. Gujarat College, Ahmedabad, Principal the Rev. W. G. Robertson.

Private Arts Colleges-

St. Xaviers, Bombay (Society of Jesus), Principal Rev. Father Sierp. Wilson College, Bombay (Scottish Mission), Principal Rev. Dr. Mackichan.

Ferguson College, Poona (Deccan Educational Society), Principal the Hon'ble

Mr. R. P. Paranipe.

Baroda College, Baroda (Baroda State);
Principal Mr. Clarke.

Samaldas College, Bhavnagar (Bhavnagar State), Principal Mr. Unwalla. Bahauddinbhai College, Junagadh State, Principal Mr. Scott.

Special Colleges-

Grant Medical College, Bombay (Government), Principal Lt.-Col. Street, I.M.S.

College of Science; Poona (Government); Principal Dr. Allen.

Agricultural College, Poona (Government), Principal Dr. Harold Mann. Chiefs' College, Rajkot, Principal Mr. Mayne. College of Science, Ahmedabad.

Law School, Bombay, Principal, Mr. Lang, College of Commerce, Bombay, Principal, Mr. P. Anstey.

Veterinary College, Bombay, Mr. K. Hewlett. Bombay Bacteriological Laboratory, Director Major Liston, I. M.S.

 Sir J. J. School of Art, Bombay (Government), Principal Mr. Cecil Burns.
 Victoria Technical Institute, Bombay, Principal cipal Mr. T. Dawson.

Medical.

The Medical Department is in charge of the Surgeon-General and Sanitation of the Sanitary Commissioner, both members of the Indian Medical Service. Civil Surgeons stationed at each district headquarters are re-sponsible for the medical work of the district, sponsible for the medical work of the district, whilst sanitation is entrusted to one of the Deputy Sanitary Commissioners. Three large hospitals are maintained by the Government in Bombay, and well-equipped hospitals exist in all important up-country stations. Over four million persons including 67,000 in-patients are treated annually. The Presidency contains 7 Lunatic Asylums and 16 institutions for the treatment of Lepers. Vaccination is carried out by a staff under the direction of the or the treatment of Lepers. Vaccination is carried out by a staff under the direction of the Sanitary Commissioner. Sanitary work has received an immense stimulus from the large grants made by the Government of India out of the opium surpluses.

Governor and President in Council. His Excellency The Right Hon'ble Freeman Freeman-Thomas Baron Willingdon of Ratton G.C.I.E. Took his seat 5th April 1913. Personal Staff.

Captain Rigby, R.A.M.C., Surgeon to H. E. the | Governor.

Capt. K. O. Goldie, 10th Duke of Cambridge's Own Lancers (Hodson's Horse), Aide-de-

Captain Eliot, Hampshire Territorials, Extra Aide-de-Camp.

Capt. Vere Arthur Coaker, 3rd Skinner's Horse, Commandant, H. E. the Governor's Body Guard. (On leave.)

Lieut. E. D. Metcalfe, 3rd Skinner's Horse, Adjutant, H. E. the Governor's Body Guard. (Acting Commandant.)

Subedar-Major Sher Muhammad Khan, 121st Pioneers, Indian Aide-de-Camp.

Members of Council.

Sir R. A. Lamb, K.C.S.I., C.I.E., I.C.S.

Mr. C. H. A. Hill, C.S.I., C.I.E., I.C.S.

Mr. Prabhashankar D. Pattani, C.I.E.,

Additional Members of Council.

Elected.

Rafiuddin Ahmad. Bar.-at-Law. Moulvie Elected by the Muhammadan Community of the Central Division.

Mr. D. V. Belvi, B.A., LL.B. Elected by the Municipalities of the Southern Division.

Mr. G. M. Bhurgri, Bar.-at-Law. Elected by the Jaghirdars and Zamindars of Sind.

Mr. F. M. Chinoy. Elected by the Muhammadan Community of the City of Bombay.

Sardar Sved Ali El Edroos. Elected by the Muhammadan Community of the Northern Division.

Mr. K. R. Godbole. Elected by the District Local Boards of the Central Division.

Shaikh G. H. Hidayatallah, LL.B. the District Local Boards of the Sind Division. Sardar Sir Chinubhai Madhavlal, Bart., C.I.E.

Elected by the Millowners' Association of

Sir Pherozeshah M. Mehta, K.C.I.E., M.A., Bar-at-Law. Elected by the Municipal Corpora-tion of the City of Bombay.

Mr. G. K. Parekh, B.A., ILB. Elected by the Municipalities of the Northern Division.

Mr. V. J. Patel, Bar.-at-Law. Elected by the District Local Boards of the Northern Divi-

Sardar B. A. Saheb Patwardhan, Chief of Kurundwad (Senior). Elected by the Sardars of the Deccan.

Mr. Abdul Hussein Adamji Peerbhoy. Elected by the Muhammadan Community of the Southern Division.

Sardar Dulabawa Raisingji, Thakor of Kerwada. Elected by the Sardars of Gujarat.

Mr. Manmohandas Ramji. Elected by the Indian Commercial Community.

Mr. T. W. Birkett. Elected by the Bombay Chamber of Commerce.

Rao Bahadur S. K. Rodda. Elected by the District Local Boards of the Southern Division.

Mr. C. H. Setalvad, B.A., LL.B. Elected by the University of Bombay.

Mr. S. B. Upasani. Elected by the Municipalities of the Central Division.

Mr. Harchandrai Vishindas, B.A., LL.B. Elect-ed by the Municipalities of the Sind Division. Mr. M. De Pomerory Webb, c.i.E. Elected by the Karachi Chamber of Commerce.

Nominated.

The Advocate-General (ex-officio).

Mr. R. P. Barrow, I.C.S.

Mr. G. S. Curtis.

Mr. J. E. C. Jukes.

Dr. Dominick Anthony D'Monte.

Mr. W. L. Graham.

Mr. G. W. Hatch.

Sir Jamsetjee Jeejeebhoy, Bart.

Mr. B. S. Kamat.

Mr. N. D. Khandalavala, LL.B.

Mr. J. H. Kothari.

Mr. J. A. D. McBain.

Mr. Lalubhai Samaldas Mehta.

Mr. G. P. Millet.

Rao Saheb V. S. Naik.

Mr. E. F. Nicholson.

Rao Bahadur R. M. Nilkantha, LL.B.

Mr. R. P. Pranipe.

Sir Ibrahim Rahimtoola, Kt., C.I.E.

Rao Bahadur G. K. Sathe.

Mr. W. H. Sharp.

Sir F. L. Sprott. Surgeon-General R. W. S. Lyons.

Mr. E. G. Turner.

SECRETARIES TO GOVERNMENT.

Political, Special and Judicial.-L. Robertson. I.C.S.

J. E. B. Hotson, I.C.S., Dy. Secretary, Judicial and Political Departments (Temporary).

Revenue, Financial and Separate.-The Hon'ble Mr. George Carmichael, C.S.I.

General, Educational, Marine and Ecclesiastical .- J. L. Rieu, I.C.S.

Legal Department and Remembrancer of Legal Affairs.-Philip Edward Percival.

Secretary, Legal G. D. French, I.c.s., Dy. Department (Temporary.)

Public Works Department.—H. F. Beale, and Lt.-Col. W. V. Scudamore, R.E. (Joint Secretary.)

MISCELLANEOUS APPOINTMENTS (S. C.)

Advocate-General, The Hon. Mr. T. J. Strang-

Inspector-General of Police, Michael Kennedy, C.S.I.

Director of Public Instruction, The Hon. Mr. W. H. Sharp. The Hon. Surgeon-General Surgeon-General,

R. W. S. Lyons, I.M.S. Oriental Translator, Sorab Maneckshah Bharucha

Talukdari Settlement Officer, The Hon. Mr. J. E. C. Jukes, I.C.S.	Rawson Hart Boddam 178
Settlement Commissioner and Director of Land	Andrew Ramsay (Officiating) 178
Records, C. N. Seddon, 10.8. Director of Agriculture and Co-operative Societies, G. F. Keatinge, C.LE	Major-General William Medows 178 Major-General Sir Robert Abercromby, 179 K.C.B. (a).
Registrar of Co-operative Societies, B. B. Ew-	George Dick (Officiating) 179 John Griffith (Officiating) 179
bank (on deputation). P. B. Haigh, i.c.s., Acting.	Jonathan Duncan
Municipal Commissioner, Bombay, P. R. Cadell, C.I.E.	Died, 11th August, 1811. George Brown (Officiating) 181
Vice-Chancellor, Bombay University, The Hon. Mr. Justice Heaton, I.C.S.	Sir Evan Nepean, Bart
Registrar, Bombay University, Fardunji Dastur.	The Hon. Mountstuart Elphinstone 181 Major-General Sir John Malcolm, G.C.B. 182
Commissioner of Police, Bombay, S. M. Edwardes, C.V.O., I.O.S.	LieutGeneral Sir Thomas Sidney Beck- 183
Sanitary Commissioner, Major F. H. G. Hutchinson,	with, K.C.B. Died, 15th January, 1831.
Accountant-General, D. Dewar, I.C.S.	John Romer (Officiating) 183
Inspector-General of Prisons, LtCol. J. Jackson,	The Earl of Clare 183
I.M.S. Postmaster-General, E. A. Doran, C.I.E.	Sir Robert Grant, G.C.H 183; Died, 9th July, 1838.
Commissioner of Customs, Salt, Opium and	James Farish (Officiating) 1838
Excise, H. O. Quin. Collector of Customs, Bombay, R. F. L. Whitty	Sir J. Rivett-Carnac, Bart 1839
Collector of Customs, Bombay, R. F. L. Whitty. Consulting Architect, G. W. Wittet.	Sir William Hay Macnaghten, Bart. (b)
Consulting Surveyor, A. E. Mirams, F.S.I.	George William Anderson (Officiating) 184
GOVERNORS OF BOMBAY.	Sir George Arthur, Bart., K.C.H 1842
Sir Abraham Shipman 1662	Lestock Robert Reid (Officiating) 1846
Died on the island of Anjediva in October 1664	George Russell Clerk 1847
Humfrey Cooke 1665	Viscount Falkland 1848
Sir Gervase Lucas	Lord Elphinstone, G.C.H., P.C 1853
Died, 21st May, 1667.	Sir George Russel Clerk, K.c.B. (2nd time) 1860
Captain Henry Garey (Officiating) 1667	Sir Henry Bartle Edward Frere, K.c.B. 1862
Sir George Oxenden 1668 Died in Surat, 14th July, 1669.	The Right Hon. William Robert Seymour 1867 Vesey FitzGerald.
Gerald Aungier 1669 Died in Surat, 30th June, 1677.	Sir Philip Edmond Wodehouse, K.C.B 1872 Sir Richard Temple, Bart., K.C.S.L 1877
Thomas Rolt 1677	Lionel Robert Ashburner, C.S.I. (Acting). 1880
Sir John Child, Bart 1681	The Right Hon. Sir James Fergusson, 1880
Bartholomew Harris 1690 Died in Surat, 10th May, 1694.	Bart., K.C.M.G. James Braithwaite Peile, C.S.I. (Acting) 1885
Daniel Annesley (Officiating) 1694	Baron Reay 1885
Sir John Gayer 1694	Baron Harris 1890
Sir Nicholas Waite 1704	Herbert Mills Birdwood, C.S.I. (Acting) 1895
William Aislabie 1708	Baron Sandhurst 1895
Stephen Strutt (Officiating) 1715	Baron Northcote, C.B 1900
Charles Boone 1715	Sir James Monteath, K.C.S.I. (Acting) 1903
William Phipps 1722	Baron Lamington, G.C.M.G., G.C.I.E 1903
Robert Cowan 1729 Dismissed.	J. W. P. Muir-Mackenzie, C.S.I. (Acting). 1907 Sir George Sydenham Clarke, G.C.M.G., 1907
John Horne 1734	G.C.I.E. (c).
	Baron Willingdon, G.C.I.E 1913
John Geekie (Officiating) 1742	(a) Proceeded to Madras on duty in Aug., 1793,
William Wake 1742	and then joined the Council of the Gover- nor-General as Commander-in-Chief in
Richard Bourchier 1750	7 1: 44 a 004h Oct 1703
Charles Crommelin 1760	(L) Was experienced Covernor Of Bollings VI
Thomas Hodges 1767 Died, 23rd February, 1771.	the Honourable the Court of he could take
William Hornby 1771	charge of his appointment, he was assassinated in Cabul on the 23rd Dec., 1841.
Rawson Hart Boddam 1784	(c) Afterwards (by creation) Baron Sydenham.
THE THE POPULATION OF THE PARTY.	• •

The Madras Presidency.

The Madras Presidency, officially the Presi- recent progress of the application of machidency of Fort St. George, together with the nery to irrigation on a small scale has been Native States, occupies the whole southern por-remarkable. tion of the peninsula, and, excluding the Native States, has an area of 141,075 square miles. It has on the east, on the Bay of Bengal, a coast-line of about 1,200 miles; on the west, on the Indian Ocean, a coast-line of about 450 miles. In all this extent of coast, however, there is not a single natural harbour of any importance; the ports, with the exception of Madras, which has an artificial harbour, are merely open roadsteads. A plateau, varying in height above sea-level from about 1,000 to about 3,000 ft., and stretching northwards from the Nilgiri Hills, occupies the central area of the Presidency; on either side are the Eastern and the Western Ghats, which meet in the Nilgiris. The height of the western mountain-chain has an important effect on the rainfall. Where the chain is high, the intercepted rain-clouds give a heavy fall. which may amount to 150 inches, on the seaward side, but comparatively little rain falls on the landward side of the range. Where the chain is low, rain-clouds are not checked in their westward course. In the central tableland and on the east coast the rainfall is small and the heat in summer excessive. The rivers, which flow from west to east, in their earlier course drain rather than irrigate the country; but the deltas of the Godaveri, Kistna and Cauvery are productive of fair crops even in time of drought and are the only portions of the east coast where agriculture is not dependent on a rainfall rarely exceeding 40 inches and apt to be untimely.

Population.

The population of the Presidency in 1911 was 41,402,000 and that of the Native States was 4,813,000. Hindus account for 89 per cent., Mahomedans for 6, Christians for 3, and Animists for 2. The vast majority of the population is of Dravidian race, and the prinpopulation is of Dravidian race, and the principal Dravidian languages, Tamil and Telugu, are spoken by 15 and 14 million persons, respectively. Of every 1,000 people, 407 speak Tamil, 377 speak Telugu, 74 Malayalam, 37 Canarese and 23 Hindustani, It is remarkable that of the 41 millions of population all but during of the 41 millions of population all but during of the 41 millions of population all but quarter of a million belong to it by birth.

Agriculture.

About 68 per cent. of the population is occupied in Agriculture. About 49 per cent. having a direct interest as land-owners or tenants. About 86 per cent. of the cultivated acre is under food crops, the principal control of the cultivated acre is under food crops, the principal control of the cultivated acre is under food crops, the principal control of the contro varea acre is uneer 1000 crops, the principal being rice (10.7 million acres), cholum or great millet (5.8 million acres), spiked millet (3.3 million acres) and ragi or millet (2.5 million acres) 24,023 acres are under wheat, 3,079 acres are under barley. About 3.2 million acres are under oil seeds, about 2.7 million acres are under cotton, 26,822 acres are under tea and 43,522 acres are under coffee. Irrigation is unnecessary on the West Coast but on the East

Industries.

Comparative poverty in readily exploitable mineral wealth and the difficulty of coal supply prohibit very large industrial deve-lopment in the Presidency, but excellent work, both in reviving decadent industries and testing new ones, has been done under Government auspices. The only indigenous art employing a considerable number of workers is weaving There is no system of regular registration in vogue, and the figures given can be regarded only as approximate, but returns show a total of 1,231 factories driven by engines of an aggregate H. P. of 33,417. Of these factories 179 are concerned with cotton.

Trade.

The grand total of sea-borne trade of the Madras Presidency in 1913-14 was Rs. \$8,15,93,000; the average for the 5 years ending 1910-11 was Rs. 45,01,10,000. The total foreign imports were valued at Rs. 16,97,76,951 and the total foreign exports were valued at Rs. 26,90,23,740, Under imports articles wholly or partly manufactured amounted to Rs. 1,350 lakhs, of which cotton manufactures reached Rs. 4,68,59,000. Under exports 'raw produce and articles mainly unmanufactured' amounted to 1,137 lakhs; the most important items were seeds (Rs. 5,32,89,000), leather (Rs. 3,47,72,000), cotton (Rs. 3,08,06,000), grain and pulse, coffee and tea. About 63 per cent. of the trade of the Presidency was with the British Empire and about 42 per cent, with the United Kingdom. The port of Madras accounted for 41 per cent. of the whole sea-borne trade of the Presidency.

Education.

The literate population numbers 3,130,000 in every 1,000, 138 men and 13 women can read and write. Of every 1,000 persons, 6 are literate in English, but the total number of women literate in English is only 4,000. There were in 1913-1914, twenty-nine Arts Colleges, five Oriental Colleges, three Professional Colleges, 364 Secondery Schools and 26,018 Elementary Schools for males; for females there were two Arts Colleges, 69 Secondary Schools and 1,443 Elementary Schools. In addition to these, all of which were public institutions; there were 368 advanced and 4,222 elementary private institutions for male scholars and 122 for females. The total number of scholars in educational institutions of all kinds was 1,409,945 including 7,094 students in Arts and Oriental Colleges, 986 in Professional Col-leges, 128,157 in Secondary Schools and 1,200,249 in Elementary schools. The Madras Thistostic Todal Colleges 100,000 in 100, University produces each year about 600 graduates in Arts.

Government.

The Madras Presidency is governed on a system generally similar to that obtaining in Bombay and Bengal. At the head unnecessary on the west coast but on the East a system generally similar to about 30.5 per cent, of the cultivated area has obtaining in Bombay and Bengal. At the head ordinarily to be irrigated. Irrigation works is the Governor, usually selected from the ranks include 28,806 tanks, 6,164 river channels, 6,114 of British public near or of ex-Governors of spring channels, 1,391 anicuts, 391,659 ayakat (Colonies: with the Governor is associated an wells and 215,736 supplemental wells. The whom must have served for ten years under the Crown in India, while the third, of whom official experience is not required, is in practice, but not of necessity, an Indian. Madras administra-tion differs, however, in some important res-pects from that of other major Provinces. There is no intermediate local authority between the Collector of the District and the authorities at headquarters, the Commissioner being unknown in Madras. Part of the power which would be reserved elsewhere for the Commissioner is given to the Collector, whose status is rather higher in Madras than elsewhere, and part is exercised by the Board of Revenue. Each member of the Board of Revenue is in fact a Commissioner for specific subjects throughout the Presidency. This conduces to administra-tion by specialists and to the maintenance of equal progress in specific matters in every part of the Presidency, but it leaves the Government without an official who can judge of the general administration of large parts of the country. For these and other reasons the Decentralisation Commission has recommended that a system of Commissionerships be introduced in Madras.

Finance.

The revenues of the Presidency according to the revised estimates, 1912-13, amounted to Rs. 740 37 lakhs, derived mainly from land revenue (Rs. 348 35 lakhs) and excise (Rs. 174 lakhs). The last figure is unprecedentedly large. The expenditure amounted to Rs. 817.06 lakhs, the main heads being land revenue administration main nears being land revenue administration (Rs. 146°78 lakhs), education (Rs. 81°67 lakhs), police (Rs. 92°69 lakhs), "civil works, civil" (Rs. 95°63 lakhs), "civil works, public works department" (Rs. 72°40 lakhs), courts of law (Rs. 69°22 lakhs), medical (Rs. 29°16 lakhs).

The impression conveyed by considerable surpluses is misleading. Madras has been living to a great extent on windfalls in the form of grants from the Government of India and a good deal of technically non-recurring expenditure is in fact recurring. The excess of recurring revenue over recurring expenditure is thus largely illusory.

Governor and President-in-Council.

His Excellency the Rt. Hon. Baron Pentland, G.C.I.E., P.C. Took his seat 30th October, 1912.

Personal Staff.

Private Secy., C. B. Cotterell.
Military Secy., Capt. C. J. L. Allanson, 6th Goorka Rifles.

Ardes-de-Camp, Lieut. R. B. Butler, 30th Lancers; Lieut. R. H. V. Cavendish, M. V. O. Grenadier Guards.

Extra Aide-de-Camp, Lieut. J. R. W. Grove.
Honorary Aides-de-Camp, Col. F. D. Bird,
V.D., Comdr. W. B. Huddleston, B.I.M.
Native Aide-de-Camp, Risaldar Major Malik
Sher Bahadur.

Surgeon, Capt. Hugh Stott, M.B., I.M.S. Commandant of Body Guard, Capt. C. Jarvis, 20th Deccan Horse. Adjutant of Body Guard, Lieut. J. H. Muir,

19th Lancers.

Members of Council. P. S. Aiyar Sivaswami Aiyar, C.S.I.; C.I.E. Sir H. A. Stewart, K.C.V.O., C.S.I. Mr. A. G. Cardew, C.S.I., I.C.S. Additional Members of Council, Elected.

Dr. T. M. Nair. Rev. G. Pittendrigh.

B. N. Sarma.

M. Ramachandra Rao Pantulu. A. Subba Krishna Rao Pantulu.

Pattu Kesava Pillai.

A. Subbarayulu Reddiyar. B. V. Aiyar Narasinha Aiyar. K. P. Raman Menon.

N. I. Adjangar Ramanujachariyar. Krishnaswami Rama Aiyangar. K. R. Venkata Krishna Rao Pantulu. Diwan Bahadur Venkataswami Ramabhadra

Nayudu Garu.

C. V. Surya Narasima maja. K. Chidambaranatha Mudaliyar.

V. Kunhiraman Nayanar. T. Zain-ul-abiden Sahib Shifa-ul-Mulk. Ahmed Tambi Ghulam Muhiuddin Marakkayar.

J. O. Robinson. Sir Hugh Steiu Fraser.

E. F. Barber.

Nominated.

F. H. M. Corbet. N. S. Brodie. L. Davidson, C.S.I.

L. E. Buckley. J. H. Stone.

W. Francis. S. B. Murray.

R. C. C. Carr.

A. Butterworth. Surg.-Gen. W. B. Bannerman, C.S.I., M.D., I.M.S.

P. Rajagopala Achariyar. H. F. W. Gillman. C. R. M. Schmidt.

Diwan Bahadur L. D. Swamikannu Pillai. Haji Ismael Sait, Khan Bahadur.

T. Richmond. Sir F. J. E. Spring, K.C.I.E.

P. Somasundara Chettiyar. V. S. Srinivasa Sastri.

A. Muirhead, C.I.E.

Raja Sri M. M. Simha Devu Garu.

SECRETARIES TO GOVERNMENT.

Chief Secretary to Government, A. G. Cardew; A. Butterworth, I.C.S. (Ag.)

Revenue, L. Davidson, C.S.I., 1.C.S.
Local and Municipal, Education and Legislative, W. Francis, 1.C.S.
Public Works (General), Col. W. M. Ellis, R.E.

Joint Secretary (Irrigation Branch), S. B. Murray.

BOARD OF REVENUE.

First Member, W. O. Horne, I.C.S. Second Member, R. B. Clegg, I.C.S. Third Member, R. C. C. Carr, I.C.S. Fourth Member, A. Butterworth, I.C.S.

MISCELLANEOUS APPOINTMENTS.

Commissioner of Revenue Settlement, L. E. Buckley, 1.C.S.
Revenue Survey Department, Director, D. G.

Hatchell. Director of Public Instruction, J. H. Stone, C.I.E.

(Ag.)
Vice-Chancellor of Madras University—Justice
Sir John Wallis.

Registrar of Madras University, F. Dewsbury.

30	1 100 211	xaras i restactory:
Inspector-General of Police, P. L.	Moore, c.i.E	
Lo.s.	. 1 377 7	T-mi Trobant
Surgeon-General, Surgeon-General Bannerman, C.S.I.	al W, I	Major-General George Harris (Acting) 1798
Accountant-General, Krishna Lal I	oatta, M. A.	Lord Clive
Inspector-General of Prisons, I		Lord William Cavendish Bentinck 1803
Macnamara, I.M.S.		, , , , , , , , , , , , , , , , , , ,
Postmaster-General, H. C. Sherida	n.	Sir George Hilaro Barlow, Bart., R.B 1807 LieutGeneral the Hon. John Aber- 1813
Collector of Customs, Percy Eccl		eromby.
Commissioner of Sall, Abkari, Brodie.	etc., N.	Major-General Sir Thomas Munro, Bart.; 1820
Inspector-General of Registration Schmidt.	, C. R. M	L. R.C.B. Dled, 6 July, 1827.
President, Madras Corporation,	P. L. Moor	
O.I.E. Director of the Kodaikanal and	Madeas Obsa	Light General Sir Frederick Adam F.C.B. 1839
Director of the Kodaikanal and a vatories, J. Evershed.		
Supt., Govt. Central Museum, Librarian, Connemara Pul. J. R. Henderson.	and Princip blic Librar	4
Piscicultural Expert, H. C. Will	SOT.	Henry Dickinson (Acting) 1848
Persian and Hindustani Transla ment, Major A. R. Nethersol	tor to Govern	t Henry Pottinger, Bart., G.C.B.
Registrar of Co-operative Cre		Daniel Eliott (Acting) 1854
L. D. Swamikannu Pillai, Di	wan Bahadu	
Scientific Officer for Planting In		on Chance Edward Lievelyan, R.C.B 1000
India, R. D. Anstead.	removed of t	(Think it in project more thank (Acting) 2000
Consulting Architect, E. M. Tho	mas.	Sir Henry George Ward, G.C.M.G 1860 Died at Madras, 2 August, 1860.
Presidents and Governor	rs of For	
St. George in Mad		Sir William Thomas Denison, K.C.B 1861
William Cufford	7.00	Acting Viceroy, 1863 to 1864.
Elihu Yale	300	Edward Maltby (Acting) 1863
Nathaniel Higginson	169	2 Lord Napier of Merchistoun, K.T. (a) 1866
Gulston Addison	. 170	
Died at Madras, 17 Oct., 1708).	Lord Hobert 1872
Edmund Montague (Acting) .	170	Died at Madras, 27 April, 1875.
Edward Harrison		o will main hose hobitson, C.S.I. (Acting) 1010
Joseph Collet		1 The Duke of Buckingham and Chandos 1875
Francis Hastings (Acting)	172	7 The Right Hon. W. P. Adam 1880
Nathaniel Elwick		7 Died at Ootacamund, 24 May, 1881.
George Morton Pitt		
Richard Benyon		
Nicholas Morse	17	
		tion).
Thomas Saunders	17	
George Pigot Robert Palk	1.0	Daton Welliock 1891
Robert Palk	170	33 Sir Arthur Elibank Havelock, G.C.M.G 1896
	17	37 Daron Ampenin
Alexander Witneh	17	1904.
Lord Pigot (Suspenden)	17	James Thomson, C.S.I. (Acting) 1904
George Stratton	17	6 Cabilel Stokes, C.S.I. (Acting) 1900
Gir Mhamas Dumhaid Dank	17	77 Hon. Sir Arthur Lawley, K.O.M.G., G.C.I.E. 1906
	17	o con include David Gibson-Carmichael, 1911
John Whitehill (Acting)		Daile, R.U.M.G., G.C.I.E. (b)
John Whitehill (Acting) Charles Smith (Acting)		
John Whitehill (Acting) Charles Smith (Acting)	17	the state of Dongar, I lightly to
John Whitehill (Acting) Charles Smith (Acting) Lord Macartney, K.B.	17	Sir Murray Hammick, K.C.S.I., C.I.E. 1912 (Acting).
John Whitehill (Acting) Charles Smith (Acting) Lord Macartney, K.B Governors of Mac		Sir Murray Hammick, K.C.S.I., C.I.E. 1912 (Acting).
John Whitehill (Acting) Charles Smith (Acting) Lord Macartney, K.B. Governors of Mac Lord Macartney, K.B. Alexander Davidson (Acting)	17: 17: 1ras. 17:	Sir Murray Hammick, K.O.S.I., C.I.E. 1912 (Acting). Right Hon. Baron Pentland, P.C., G.C.I.E. 1912 (a) Afterwards (by creation) Baron Napier
John Whitehill (Acting) Charles Smith (Acting) Lord Macartney, K.B. Governors of Mac Lord Macartney, K.B. Alexander Davidson (Acting) Major-General Sir Archibald Camp	17: 17: 18: 18: 17: 17: 17: 17: 18: 18: 18: 18: 18: 18: 18: 18: 18: 18	Sir Murray Hammick, K.C.S.I., C.I.Z. 1912 (Acting). Right Hon. Baron Pentland, P.C., G.C.I.E. 1912 (a) Afterwards (by creation) Baron Napier of Ettrick.
John Whitehill (Acting) Charles Smith (Acting) Lord Macartney, K.B. Governors of Mac Lord Macartney, K.B. Alexander Davidson (Acting)	17: 17: 17: 18: 17: 17: 17: 18: 18: 18: 18: 18: 18: 18: 18: 18: 18	Sir Murray Hammick, K.C.S.I., C.I.Z. 1912 (Acting). Right Hon. Baron Pentland, P.C., G.C.I.E. 1912 (a) Afterwards (by creation) Baron Napier of Ettrick.

The Bengal Presidency.

The Presidency of Bengal, as constituted on the 1st April 1912, comprises the Burdwan and Presidency divisions and the district of Darjee-ling, which were formerly administered by the Lieutenant-Governor of Bengal; and the Rajshahi, Dacca and Chittagong divisions which by the partition of the old Province had been placed under the administration of the Lieutenant-Governor of Eastern Bengal and Assam. The area of the Presidency is 84,092 square miles, and it possesses a population of 46,305,642 persons; included within this area are the two Native States of Cooch Behar and Hill Tippera, which are under the general supervision of the Government of Bengal. The area of the British territory is 78,699 square miles. Bengal comprises the lower valleys and deltas of the Ganges and Brahmaputra, and in the main consists of a great alluvial plain intersected in its southern portion by innumerable waterways. In the north are the Himalayan mountain and submontane tracts of Darjeeling and Jalpaiguri, and on the south-east the hills in Hill Tippera and Chittagong, while on the west the Chota Nagpur plateau is continued by an undulating tract running through the western portions of Midnapur, Bankura, Burdwan and Birbhum. The general range of the country however is very low, and a great fertile plain extends southward from Jalpaiguri to the forests and swamps known as the Sunderbans, which lie between the area of cultivation and the Bay of Bengal.

The People.

Of the inhabitants of the Presidency 24,237,238 or 52 4 per cent. are Mahomedana and 20,945,379 Hindus. These two major religions embrace all but 2 4 per cent. of the population. Christians, Buddhists, and Animists combined number a little over 1,100,000.

Bengali is spoken by ninety-two per cent. of the population of the Presidency and Hindi and Urdu by four per cent. The Orlya-speaking people number nearly 300,000 and Naipali is the tongue of 89,000 persons principally residents in the Darjeeling and Jalpaiguri districts. The great majority of the speakers of the Munda languages are Santals in West and North Bengal.

Industries.

According to the returns of the Census of 1911 nearly 35½ million persons of three-fourths of the population derive their support from pasture and agriculture, and of these 30 millions are cultivators, and 3½ millions farm servants and field labourers. The jute crop has greatly improved the economic status of the cultivator, previally in Eastern Bengal, and the area under the fire in 1914 is estimated at 2,872,604 acres are 10 to the most important rice-producing frea y Northern India and it is computed that the cent. Include barley, wheat, pulses, and oils and the control of the cultivated area of the President of the area devoted to the last named being a produced both in the sugar-cane and the date palm, and place is grown for local consumption in nearly very district of Bengal. There are over 370 tag gardens in the Presidency with a planted prea of 150,000 acres.

Manufactures.

The jute mills of Calcutta which constitute the principal manufacturing industry of the Presidency give employment to over 200,000 hands. The total export of jute and jute manufactures in 1913-14 exceeded £ 39 millions of which £ 20 millions represented the raw material. The industry has suffered from time to time from over-production but at present is experiencing exceptional prosperity and new mills are being erected, equipped with the most modern machierected, equipped with the most modern mannery. Other principal industries are cotton twist and yarn, silk yarn and cloth, hand-made cloth, sugar, molasses and paper. The silk weaving industry is in a declining state. The manufacture of tea is carried on an extensive scale in Darjeeling and Jalpaiguri. In 1913-14 which the maritime trade of Bengal reached a total of Rs. 214'85 crores 97 per cent. of which passed through the Port of Calcutta. The foreign trade amounted to Rs. 174.83 crores of which Rs. 72.08 crores represented imports and Rs. 102.75 crores exports. Of the foreign trade 39 per cent. passed through Calcutta and 1 per cent. through Chittagong. The growth of Calcutta's commerce has been so rapid in recent years that the maritime trade exceeds the port accommodation available and urgent demands are being advanced for extensions both by importers of foreign merchandise and exporters of coal. With the re-adjustment of the boundaries of Bengal and the creation of a new Province of Behar and Orissa the more important coal-fields have passed into the new Province. The production of 1913 for Bengal itself, with Behar and Orissa, reached nearly 14 million tons.

Administration.

The present form of Government dates from the 1st of April 1912, when the administrative changes announced by the King-Emperor at Delhi in December 1911 came into operation. A Governor was then substituted for a Lieutenant-Governor, who had previously been at the head of the Province, and Lord Carmichael of Skirling assumed charge of the office. The Governor is assisted by an Executive Council, two of whom are at present members of the Indian Civil Service and the third an Indian. The Civil Secretariat consists of the Chief Secretary, who is in charge of the Political Appointment and Judicial Departments, the Revenue Secretary, the Financial Secretary, who also deals with Commercial question. The General Secretary who deals with questions of Local Self Government and Education and the Legislative Secretary, Tour Under-Secretaries and one Assistant Secretary. The Government divides its time between Calcutta, Darjeeling and Dacca.

Bengal is administered by five Commissioners under the Governor in Council, the divisions being those of the Presidency, Burdwan, Rajshahl, Dacca and Chittagong. The unit of administration is the District Magistrate and Collector. As Collector he supervises the ingathering of the revenue and is the head of all the Departments connected with it, while as District Magistrate he is responsible for the administration of Criminal justice in the district. The immediate superior of the District

Magistrate is the Divisional Commissioner. Commissioners are the channels of communication between the local officers and the Government. In certain revenue matters they are, in their turn, subject to the Board of Revenue in Calcutta; in other matters they are under the direct control of Government.

Justice.

The administration of justice is entrusted to the High Court of Calcutta which consists of the Chief Justice who is a barrister and 18 puisne judges who are barristers, civilians or vakils. Below the High Court are the District and Additional Judges, the Small Cause Court and Subordinate Judges and the Munsifs. Of these officers the District and Additional Judges and a certain number of subordinate judges are also endowed with the power of a Criminal Court while the remainder have jurisdiction in Civil matters only. Criminal justice is administered by the High Court, the Courts of Session and the courts of the various classes of magistrates. On its appellate side the High Court disposes of appeals from the order of a Court of Session, and appears from the order of a Court of Session, and it also confirms, modifies or annuls sentences of death passed by Sessions Courts. Calcutta has four Presidency Magistrates, one Municipal Magistrate and also a number of Honorary Magistrates and it possesses a Court of Small Causes with six judges who dispose of cases of the class that are usually heard in County Courts in England.

Local Government.

By the Bengal Act of 1884 which regulates municipal bodies in the interior and its subsequent amendments the powers of Commissioners of municipalities have been increased, and the elective franchise has been extended. Municipal expenditure now comprises a large number of objects, including veterinary insti-tutions and the training and employment of female medical practitioners. The Commissioners also have large powers in regard to the watersupply and the regulation of buildings. In Calcutta Act (III) of 1899 created three cordinate municipal authorities, the Corporation, the General Committee, and the Chairman. The total number of Commissioners is fifty, of whom 25 are elected, and the remainder appointed by Government and by commercial bodies. eq by Government and by commercial bodies. In order to improve the insanitary and congested areas of the city, the Calcutta Improvement Trust has been created with extensive powers. In the mofussil, District and Local Boards exercise considerable powers, with regard to Public Works, Education and Medical relief and Union Committees have been formed which deal for the most part with the control of village roads, sanitation and water-supply.

Finance.

As in other Provinces, the revenue is divided between the Local Government and the Government of India. The Budget for 1914-15 showed an opening balance of Rs. 3 . 04 crores, estimated revenue amounted to Rs. 6 30 crores and expenditure aggregated 7 36 crores. Of the closing balance of Rs. 198 lakhs, Rs.1691 lakhs was earmarked for various objects, including the Calcutta Improvement Trust, the new Dacca of whom nearly 31,100 are in-patients. In the University, police re-organisation and education. mofussil districts there are several hundred

Public Works.

The Public Works Department is at present under the charge of a Chief Engineer and a temporary Chief Engineer whose appointment has been sanctioned for five years. The redistribution of territories on 1st April 1912 caused considerable changes in this Department. and almost all the irrigation works in the old province of Bengal as well as two out of the three Canal Revenue Divisions went to the new Province of Behar and Orissa. There was also a considerable reduction in the staff and in the number of Public Works Circles and Divisions. Public buildings are erected by the Department which also constructs roads and carries out miscellaneous improvements. Irrigation works in Bengal are under the charge of the Irrigation Department which deals with the numerous waterways that intersect the Province.

The Bengal Police force composes the Military Police, the District Police, Railway Police, and River Police (now in course of formation). The District Police are under the control of the Inspector-General of Police, who is usually a Covenanted Civilian, although the usuauy a Covenanted Civilian, although the office is open to gazetted members of the Force. Under him are Deputy Inspectors-General for the Dacca range, the Rajshahrange, and the Presidency range, and also a Deputy Inspector-General in charge of the C.I.D., the Railway and River Police. Each district is in charge of a Superintendent, and an Additional Superintendent. The cadre comprises Assistant's Superintendents. Denuty prises Assistant Superintendents, Deputy Superintendents, Inspectors, Sub-inspectors, head constables and constables. The River Police Force, the formation of which has not yet been completed, will be under the Deputy Inspector-General who has charge of the C.I.D. There is also a Village Police, comprised of duffadars, and chowkidars, who are paid a monthly salary which is collected from the villages of the Panchyat. The Calcutta City Police is a separate force maintained by Government under a Commissioner who is responsible direct to Government. The Commissioner has under him Deputy Commissioners, Inspectors, Sub-Inspectors, head constables and constables, and a reserve force of about 100 European sergeants. There is a training college European sergeants. There is a training college and school at Sarda, in the district of Rajshahi where newly appointed gazetted officers, Sub-Inspectors and constables learn their duties. The annual cost of the Police is nearly Rs. 100 lakhs.

Medical.

The head of the Medical Department is the Surgeon General with the Government of Bengal, and Sanitation is in charge of the Sanitary Commissioner, both these officials being members of the Indian Medical Service. There is also a Sanitary Engineer for the Presidency. In the districts the civil Surgeons are responsible for medical work. are responsible for medical work. There are 19 hospitals in Calcutta, 9 of which are supported by the Government and 348,600 persons are treated at these institutions annually,

hospitals and dispensaries, the number of patients treated annually in the Province, were 51,07,500 including 54,300 in-patients.

Education.

In the Presidency of Bengal education is imparted partly through Government agency and partly through private bodies, assisted in large measure by Government grants-in-aid. Government maintains three Arts colleges in Calcutta (of which one is a college for women and one the Sauskrit College) one at Hooghly, one at Krishnagar, one at Dacca, one at Rajshahi and one at Chittagong. one at It also maintains two training colleges for teachers in high schools at Calcutta and Dacca, an engineering college at Sibpur and an engineering school at Dacca, a medical college, a veterinary college, a school of art and a commercial school in Calcutta and a weaving school at Scrampore. It also provides at the head quarters of all dis-tricts except Burdwan and Midnapore, and also at certain other mofussil centres model high English schools for the education of boys, while each Government Arts college has a collegiate school attached also under Government control. In Calcutta there are two Model High Schools for boys, both attached to Presidency Coilege. Government high schools for girls exist only in the head-quarters' stations of Calcutta, Dacca, Mymensingh and Chittagong. The other se-condary schools, with the exception of a few middle schools managed either by Government or by Boards, are under private control. The administration of primary education mainly with the district and local boards, large grants being given from provincial revenues to the boards, which contribute only slightly from their own funds. Only in backward localities are such schools either entirely managed, or directly aided, by Government. Apart from the institutions referred to above, 130 institutions called Guru Training Schools are maintained by the Department for the training of vernacular teachers. For the education of Mahomedans, there are senior madrasas at Calcutta, Dacca, Chittagong and Hooghly, which are managed by Government. There are also certain Government institutions for technical and industrial education. A large proportion of educational work of every stage is under the control of various missionary bodies, which are assisted by Government grants-in-aid.

The municipalities are required to expend a certain proportion of their ordinary income on education. They are mainly responsible for primary education within their jurisdiction, but schools in these areas are eligible also for grants from Government. These bodies maintain a second grade Arts College and a high school at Midnapore, a high school at Burdwan, and a high school at Chittagong.

There are now in the	Presi	dency	:
Arts Colleges		*	33
Law "			9
Medical ,,			1
Engineering Colleges	3		2
Training Colleges			3
Secondary Schools			2,317
Primary Schools			35,186
Special ,,			3,008
Private Institutions			2,380
with 16,97,714 pupils in	n all.		

The Government Educational Budget allotment for the province for 1914-1915 is Rs. 1,45,43,000. Of this a large proportion represents the grants recently allotted by the Government of India.

The Department is administered by a Director of Public Instruction assisted by an Assistant Director and an Officer on special duty for work in connection with general education, and by a special officer in connection with Technical and Industrial Education. A Special Officer is shortly to be appointed in connection with development of Mahomedan education. Each division is in charge of a Divisional Inspector assisted by a certain number of Additional and Assistant Inspectors according to the requirements of the several divisions. Similarly the administrative charge of the Primary education of each district is in the hands of a Deputy Inspector assisted by Additional Deputy and Sub-Inspectors of Schools, the latter class officers being in some instances helped by officers of humbler status called Assistant Sub-Inspectors numbier status caned assistant sub-inspectors and Inspecting Pandits. Higher education is controlled by the University (Calculta) established in 1857, administered by the Chancellor, (the Governor General and Viceroy of India), the Rector (the Governor of Bengal), the Vice Chancellor (appointed by the Government of India, usually for two years at a time) and 100 follows: fellows, of whom 10 are ex-officio, 10 are elected by the Graduates, 10 by the Faculties and the remainder (70) are nominated by the Chancellor. This University maintains one Law College called the University Law College, Cal-cutta. The University is mainly an examining University, but is rapidly developing into a teaching University also. Four University pro-fessorships (Minto, Carmichael, Hardinge and King George V) have recently been founded.

The principal educational institutions are:-

GOVERNMENT ARTS COLLEGES.

Presidency College, Calcutta, Principal, H R James.

Dacca College, Principal, W. A. J. Archbold.

Rajshahi College, Principal, Rai K. Banerjee Bahadur.

Chittagong College, Principal, F. C. Turner.

Sanskrit College, Calcutta, Principal, S. C. Acharyya.

Hooghly College, Principal, S. P. Dass.

Krishnagar College, Principal, S. C. Dey.

Bethune College, Calcutta, Lady Principal, Mrs. K. Das.

PRIVATE ARTS COLLEGES.

Aided.

Scottish Churches College, Calcutta, Principal, Rev. J. Watt.

St. Xavier's College, Calcutta, Principal, Rev. Father Crohan.

L. M. S. College, Bhowanipore (Calcutta), Principal, Rev. W. G. Brockway.

Jaganath College, Dacca, Principal, L. M. Chatteril.

Braja Mohan College, Barisal, Principal, N. L. Mookherjee.

Victoria College, Comilla, Principal, Satyendra Nath Basu.

Wesleyan College, Bankura, Principal, Rev. J. Mitchell.

Victoria College, Narail, Principal, Gopal Chandra Maitra.

Hindu Academy, Daulatpur, Principal, Kamakhya Charan Nag.

Unaided.

City College, Calcutta, Principal, Heramba Chandra Maitra.

Ripon College, Calcutta, Principal, Ramendra Sundar Trevedi.

Bangabasi College, Calcutta, Principal, G.C.Bose. Metropolitan Institution, Calcutta, Principal Saradaranjan Roy.

Bishop's College, Calcutta, Principal, Rev. R. Gee.

Central College, Calcutta, Principal, Khudiram Bose.

C. M. S. College, Calcutta, Principal, Rev. W. S. Holland.

Diocesan College, Calcutta, Lady Principal, Sister Mary Victoria.

Krishna Chandra College, Hetampur, Principal, Dhurmadas Dutt.

Burdwan Raj College, Principal, Umacharan Bandhyopadhyay.

Uttarpara College, Principal, Jogendra Nath

Serampore College, Principal, Dr. George

Krishnath College, Berhampore, Principal, E. M. Wheeler, M. A.

Edward College, Pabna ; Principal, Chandra Sen. Loreto House, Calcutta, Lady Principal, Mother

Gonzaga. MUNICIPAL.

Midnapore College, Principal, Jogendra Nath Hazra.

COLLEGES FOR PROFESSIONAL TRAINING. Engineering-Government

Civil Engineering College, Sibpur, Principal B. Heaton.

Teaching-Government.

David Hare Training College, Principal, W. E.

Dacca Training College, Principal, E. E. Biss. Aided.

M. S. Training College, Bhowanipore, (Calcutta), Principal, Rev. W. G. Brockway. L. M. S. Training Medicine-Government.

Medical College, Calcutta, Principal, Lt.-Col. J. T. Calvert.

Law.

University Law College, Calcutta, Principal Dr. Satis Chandra Bagchi.

The Law Department attached to the Dacca College, Vice-Principal, Muazzam Ali.

Ananda Mohan College, Mymensingh, Principal | The Law Department attached to the Ripon J. C. Ghosh. | College, Calcutta, Principal, Janaki Nath Bhattacharii.

> There are also Pleadership classes attached to the Government Colleges at Dacca, Rajshahi, Chittagong and Krishnagar and in the unaided college at Berhampore, the Ripon College and the Metropolitan Institution, Calcutta, and the Municipal College at Midnapore.

Administration.

GOVERNOR AND PRESIDENT IN COUNCIL.

His Excellency The Rt. Hon. Thomas David, Baron Carmichael of Skirling, G.C.I.E., K.C.M.G. Took his seat, 1st April, 1912.

PERSONAL STAFF.

Private Secretary, W. R. Gourlay.

Military Secretary, Major H. F. Bateman-Champain, 9th Gurkhas.

Surgeon, Capt. W. L. Harnelt, I.M.S.

Aides-de-Camp, Lieut. H. G. Vaux, Cornwall Light Infantry; Lieut, C. A. Granthan, 33rd Q. V. O. Light Cavalry.

Honorary Aides-de-Camp. Lieut.-Col. C. M. Pearce, v.D., Commander E. A. Constable, R.N.; Lt.-Col. R. Glen, v.D.; Hony. Col. C. Routh; Lt.-Col. R. S. Hawkins v.D.

Extra Aide-de-Camp, Lieut. J. F. B. Morrell M.V.O.

Indian Aide-de-Camp, Risaldar Ismail, Khan Bahadur.

Commander of Body Guard, Capt. Walter Kenworthy, 33rd Cavalry.

Adjutant of Body Guard, Lieut. H. A. Garstin, 21st Cavairy.

BENGAL EXECUTIVE COUNCIL.

N. D. Beatson Bell. Took his seat, November

P. C. Lyon, C.S.I. Took his seat, 1st April 1912. Syed Shamsul Huda. Took his seat, 1st April-1912.

> LEGISLATIVE COUNCIL OF BENGAL. Councillors, Ex-Officio.

Mr. P. C. Lyon, c.s.i., i.c.s.

Nawab Syed Shams-ul-Huda.

Nominated, Officials.

Mr. C. J. Stevenson-Moore.

" F. J. Monahan.

" J. G. Cumming, c.i.E.

J. H. Kerr, c.i.e.

" H. L. Stephenson, C.I.E.

" CH. Bompas.

" H. F. Samman.

Lt. Col. A. C. DeLaJolyde Lotbiniere, R.E.

Mr. H. H. Green.

" Binod Chandra Mitra.

" W. W. Hornell.

Rai Priya Nath Mukharji Bahadur.

Mr. C. F. Payne.

,, A. H. Cuming.

The Benga	Presidency. 43
Nominated, Non-officials. Nawab Sir Khwaja Salimullah Bahadur, G.C.I.E.,	Inspector-General of Police, B. B. Hughe Buller, C.I.B.
K.C.S.I. Mr. H. J. Hilary.	Commissioner, Calcutta Police, Sir F. L Halliday, C.I.E., M.V.O.
,, Satyendra Prasanna Sinha.	Conservator of Forests, C. E. Muriel.
Dr. Nilratan Sarkar.	Inspector-General of Civil Hospitals, Col. G. F.
Raja Hrishikesh Laha, C.I.E.	Harris, C.I.E.
Lt, Col. R. Glen.	Sanitary Commissioner, Major W. W. Clemesha
Elected.	Deputy Sanitary Commissioner for Malaria Research, Major A. B. Fry.
Mr. Byomkes Chakravarti.	Collector of Customs, Calcutta, E. G. L. Z
Sir Bijay Chand Mahtab.	MacGregor, I.C.S.
Maharaja Jagadindra Nath Ray.	Commissioner of Excise and Salt, A. N. Moberly.
Raja Soshi Kanta Acharyya Chaudhuri Bahadur.	Accountant-General, H. G. Tombins, C.I.E.
Dr. Deba Prosad Sarbadhikari.	Inspector-General of Prisons, LtCol. W. J.
Maulvi Muhamad Ismail Khan Chaudhuri	Buchanan, C.I.E.
Rai Radhacharan Pal Bahadur.	Postmaster-General, P. G. Rogers, 1.0.8.
Mr. N. McLeod.	Inspector-General of Registration, P. N. Mukharji.
" F. H. Stewart, C.I.E.	Director of Agriculture, J. B. Blackwood.
" W. T. Grice.	Protector of Emigrants, C. Banks, M.D.
"G. A. Bayley. "A. W. Cresswell Chaplin.	Chairman of Calcutta Corporation, C. F. Payne.
" Golam Hoossain Cassim Ariff.	Superintendent, Royal Botanic Gardens, Major
Munshi Mazharul Anwar Chaudhuri.	A. T. Gage.
Maulvi Musharraf Hussain.	Coroner, F. K. Dobbin.
Maulvi Abdul Kasem Fazl-ul-Haq.	Registrar of Co-operative Credit Societies, J. M. Mitra.
Nawab Saiyid Hoosain Haidar Chaudhuri,	
Khan Bahadur.	LIEUTENANT-GOVERNORS OF BENGAL.
Maharaja Ranajit Sinha of Nashipur.	Frederick J. Halliday 1854
Rai Nalinaksha Basu Bahadur.	John P. Grant 1859
Raja Mahendra Ranjan Ray Bahadur.	Cecil Beadon 1862
Nawab Saiyid Nawab Ali Chaudhuri, Khan	William Grey 1867
Bahadur.	George Campbell 1871
Babu Prasanna Kumar Roy.	Sir Richard Temple, Bart., K.C.S.I 1874
Babu Surendra Nath Banarji.	The Hon. Ashley Eden, C.S.I 1877
Babu Surendra Nath Roy.	Sir Steuart C. Bayley, K.C.S.I., (Offig.) 1879
Babu Mohendra Nath Ray.	A. Rivers Thompson, C.S.I., C.I.E 1882
Rai Hari Mohan Chandra Bahadur.	H. A. Cockerell, C.S.I. (officiating) 1885
Raja Dinendra Narayan Ray.	Sir Steuart C. Bayley, K.C.S.I., C.I.E 1887
Babu Upendra Lal Ray.	Sir Charles Alfred Elliott, K.c.s.i 1890
SECRETARIAT.	Sir A. P. MacDonnell, K.C.S.I. (Offig.) 1893
Chief Secretary to Government, J. G. Cumming, C.I.E.	Sir Alexander Mackenzie, K.C.S.I 1895 Retired 6th April 1898.
Secretary, Revenue Department, J. H. Kerr, C.I.E.	Charles Cecil Stevens, C.S.I. (Officiating) . 1897
Secretary, General Department, H. F. Samman. Secretary, Financial Department, H. L. Stephen- son.	Sir John Woodburn, K.C.S.I 1898 Died, 21st Nov. 1902.
Secretary, Judicial Department, E. P. Chapman.	J. A. Bourdillon, c.s.I. (Officiating) 1962
Secretary to the Council and Secretary, Legislative	Sir A. H. Leith Fraser, K.C.S.I 1908
Department, A. W. Watson.	Lancelot Hare, C.S.I., C.I.E. (Offig.) 1906
Secretary to Government, Public Works Depart-	F. A. Slacke (Officiating) 1906
ment, and Chief Engineer, H. H. Green.	Sir E. N. Baker, K.C.S.I 1908
Under Secretary to Government, Public Works	Retired 21st Sept. 1911.
Department, (Irrigation Branch), Anadi Nath Mitra.	Es it Dane, cibiz (optoming)
BOARD OF REVENUE.	The office of Lieutenant-Governor of Bengal was abolished on April 1st 1912, when Bengal
dember, D. J. Macpherson, C.I.E.	was raised to a Governorship.
Secretary, W. A. Marr.	GOVERNORS OF THE PRESIDENCY OF FORT
Miscellaneous Appointments.	WILLIAM IN BENGAL.
Director of Public Instruction, W. W. Hornell-	· -
Principal, School of Arts, P. Brown.	The Rt. Hon. Baron Carmichael of 1912 Skirling, G.C.I.E., K.C.M.G.

The United Provinces.

The United Provinces of Agra and Oudh lie in practically the centre of Upper India. They are bounded on the north by Tibet, on the north-east by Nepal, on the south and south-east by Bengal, on the south by two of the Chota Nagpur States of the Central India Agency and the Saugor District of the Central Provinces, and on the west by the States of Gwalior, Dholpur, Bharatpur, Sirmor, and Jubbal, and by the Punjab. Their total area amounts to 107,287 square miles, to which may be added the area of the two Native States of Tehri and Rampur, both of which lie within the United Provinces, 5,079 square miles and the newly-created independent State of Benares with an area of 865 miles, giving a total of 112,346 square miles. The total population is 48,014,080, out of which Tehri and Rampur account for 832,036.

The Provinces, originally termed the North-Western Provinces and so amalgamated in 1877, receiving their present designation in 1902, include four distant tracts of country: portions of the Himalayas, the sub-Himalayan tracts (the Kumaon), the great Gangetic plain and por-tions of the hill systems of Central India (Bundelkhand). The first two of these tracts are infertile and support a very sparse population and the Central Indian plateau is almost equal ly infertile, though better populated. The soil of the Gangetic plain, however, possesses an extreme fertility and here the density of population rises from 512 persons per square mile in the west, to 549 in the centre and 718 in the east, which gives the Provinces as a whole a greater population pressure on the soil than any other Provinces in India. In the south there are low rocky hills, broken spurs of the there are low rocky fills, broken spurs of the Vindhyan mountains, covered with stunted trees and jungle, and in the North the lower slopes of the Himalayas, clothed with dense forest, affording excellent big and small game shooting, and rising beyond in a tangled mass of ridges, ever higher and higher, until is reached the line of the eternal snows, but the greater part of the provinces consists of level part of the provinces consists of level plain, teeming with highly-cultivated fields and watered by four rivers-the Ganges, Jumna, Gogra and the Gumti.

The People.

The population is mainly Hindu, 85 per cent. ranking as such whilst Mahomedans number 14 per cent., the total of all other religions being less than 0.6 per cent. composed of Christians (Europeans and Indians), Jains, Aryas and Sikhs; the Aryas are the followers of the Arya Samaj sect, which obtains widely in the Punjab and has extended its influence to the United Provinces. The three main physical types are Dravidian, Aryan and Mongoloid, the latter being confined to the Himalayan and sub-Himalayan districts and the former to South Mirzapur and Bundelkhand, whilst the high-caste Aryans frequent the western Districts of the Province. Most of the people, however, show a mixed Arya-Dravidian origin. Three languages are spoken by the great majority of the people in the plains—Western Hindi, Eastern Hindi and Behari; Urdu, or Hindustani, is a dialect of Western Hindi, though it contains a large admixture of Persian and Arabic words, which makes it a lingua franca.

Industries.

The principal industry is agriculture, which supports no less than 71.7 of the population. The soils of the Provinces fall into three groups; the valley soils of the Himalgroups; the valley soils of the Himalayas, the main alluvium and the Central Indian alluvium; the chief characteristic soil of the Central Indian alluvium is the black soil, with a lighter variant, though here also there are light loams and gravel. The Himalayan soils are of local origin and vary with the nature of the rock from which they have been formed. whilst the main alluvium soils are sand, clay and loam, the loam being, naturally, the most and loam, the loam being, naturally, the most productive. The soil generally yields excellent crops of rice, millet, maize, linseed, cotton, wheat, sugarcane, pulses, barley and poppy, rice being grown mostly in low-lying, heavy clays. The greater part of the Provinces is highly cultivated, the rainfall varies from 50 to 60 inches in the Hills, to 40 inches in the Benares and Gorakhpur Divisions, whilst the Agra Division receives about 25 to 30 inches annually colly. Drought, seriously, affected Bundelally only. Drought seriously affected Bundel-khand and the Agra Division, in the past, but improved drainage, and irrigation (a protective system of irrigation works exists and is being extended) have enabled a complete recovery to be made and the agricultural prorecovery to be made and the agricultural presence of the Provinces is now high, though it varies with the rainfall. The great scourge has been, and is, that of plague, which hampers the agriculturists severely, and in the Tersi, malaria still exacts a large toll. Land is miniaria suni exacts a large toil. Land is held mostly on the ryotwari tenure in Bundel-khand and Kumaon, on zemindari tenure in Agra and taluqdari tenure in Oudh. The principal land owners in Oudh are the Taluqdars, some of whom own very large estates. The area held in taluqdari tenure area weld in taluqdari tenure area weld in taluqdari tenure area. area held in taluqdari tenure amounts to 51 per cent, of the total area in Oudh.

Manufactures.

The Provinces are not rich in minerals. Coal exists in Southern Mirzapur, iron and copper are found in the Himalayan Districts, and there were mines of importance there formerly, but increased difficulty of working them as veins became exhausted resulted in the closure of most of them. Gold is found in minute quantities by washing in some of the rivers in the Hills. Limestone is found in the Himalayas and stone is largely quarried in the Mirzapur District. Cotton is ginned and spunthroughout the provinces, as a home industry, and weaving, by means of hand-booms, is carried on in most districts. In 1901 nearly a million persons were dependent on weaving, 140,000 on spinning and 136,000 on cleaning, pressing, and ginning, but during the last decade these industries have been on the decrease. The largest industry is in Azamgarh district, where there are 130,000 looms. Silk spinning is confined almost entirely to the district of Benares, where the famous Kinkob brocade is made. Embroidery is manufactured in Lucknow, where the noted chikan work of silk on cotton or muslin is produced, and in Benares, where gold and silver work on velvet silk, crepe and asreenet obtains. The glass industry is important in some districts, Benares and Moradabad are noted for their lacquered brass work, porcelain

is manufactured at Ghazipur, and other indus- tance in the settlement of land revenue. Subtries are those of paper-making (Lucknow) dyeing, leather-work and freworks. The chief centre of European and Indian industry is Cawnpore, which, situated in most advantageous position on the Ganges, possesses tanneries, cotton, woollen, jute and other mills, which have a large and ever increasing output (the woollen mill is the largest in India). There are cotton factories at Aligarh (famous for its locks) Meerut and Bareilly; Mirzapur (which produces also excellent carpets), Hardoi and Hathras have cotton mills. Excellent furniture is made at Bareilly, at Allahabad there are stone works, at Rosa there is a very large English distillery, with patent still, and the provinces can claim six breweries, with an out-turn of over a million gallons.

The largest trade centres are Cawnpore, Allahabad, Mirzapur, Benares, Lucknow, Meerut, Aligarh, Hathras, Muttra, Agra, Farukhabad, Moradabad, Chandausi, Bareilly, Saharanpur, Muzufarnagar, Ghaziabad, Khurja, Gorakhpur, Ghazipur, Pilibhit and Shahjahanpur,

Administration.

The Provinces are administered by Lieutenant-Governor, who is generally chosen from among the members of the Indian Civil Service who have served in the Province. The medium for the transaction of public business is the Secretariat, the Staff of which consists of five Secretaries and five Under-Secretaries. The Chief Secretary is in charge of the Revenue, Appointment, General Administra-tion, Political and Forest Departments; another Secretary attends to the Medical, Judicial, Police, Educational and Sanitation Depart-ments; whilst a third looks to the local Self-Government, Financial, Municipal, Miscel-laneous and Separate Revenue Departments. The other two Secretaries belong to the Public Works Department, and are also Chief Engineers, one of whom deals with Irrigation, and the other with Roads and Buildings. Government spends the cold weather, October to April, in Lucknow and Allahabad, mostly in Lucknow, the Secretariat moves between these two places. The Lieutenant-Governor and the Secretariat spend the hot weather in Naini Tal, but during the monsoon the Lieutenant-Governor tours the plains, as he does also in the cold weather. The Board of Revenue is the highest court of appeal in revenue and rent cases, and it has important executive duties, being the chief revenue authority in the Provinces. There are fortyauthority in the Provinces. eight British districts, thirty-six in Agra and twelve in Oudh, average area 2,000 square miles and average population a million. Each District is in charge of a District Officer, termed a Collector and Magistrate in Agra and a Deputy Commissioner and Magistrate in Oudh and Kumaon, who is an Indian Civilian. The Districts are grouped together in Divisions under cricis are grouped together in Divisions under a Commissioner. There are nine Divisions, having an average area of nearly 12,000 square miles and a population of from 5 to 6 millions. The District are sub-divided into takels, of which there are 217, with an average area of 500 square miles and a population of 220,000. Each Tahsil is in charge of a Tahsildar, who is responsible for the collection of revenue, and responsible for the collection of revenue, and also exercises judicial powers. Tahsils are divided nto parganas which are units of impor-

ordinate to the Tahsildars are kanungos, of whom there are, on an average, three to a tahsü. These officials supervise the work of the patwaris, or village accountants, check their papers and form a link direct between the vil-lagers and Government. For judicial purposes (revenue and criminal), the District Officer assigns a subdivision, consisting of one or more tahsils, as the case may be to each of his subordinates, who may be covenanted civilians, (Joint and Assistant Magistrates and Collectors) or members of the Provincial Service (Deputy Collectors and Magistrates). The Commissioner of the Bareilly and Kumaon Divisions are Political Agents for the Native States of Rampur and Tehri respectively and the Commissioner of Benares is the Political Agent for Benares State.

Justice.

Justice is administered by the High Court in the Province of Agra, and the Court of the Judicial Commissioner, in Oudh, which are the final appellate authorities in both criminal and civil cases. The former, which consists of a Chief Justice and five puisne Judges, two of whom are Indians, sits at Allahabad, and the latter, represented by a Judicial Commissioner and two Additional Commissioners, one of whom is an Indian, sits always in Lucknow. There are twenty-seven District and Additional District Judges, (Indian Civilians) twenty-one in Agra and six in Oudh, who have both original and appellate jurisdiction in civil and criminal cases, and occasional appellate jurisdiction in rant cases, but District Officers and their assistants, including Tahsildars, preside in both criminal and rent and revenue courts, and dispose of a good deal of the work. In Kumaon, the Commissioner is a High Court Judge in Civil cases, and a District Judge in Criminal cases. In the larger Cantonments, the Cantonment Magistrates have limited powers as Judges of a Small Cause Court. There are also Subordinate Judges, Judges of Small Cause Courts and Munsiffs, who dispose of a large number of small civil suits, being specially empowered, in some cases, to decide suits up to Rs. 2,000, but generally they take cases up to Rs. 1,000. whilst Subordinate Judges hear cases up to Rs. 5,000. Appeals from Munsifs and Subordinate Judges go to the District Judges. Small Cause Court Judges try suits to the value of Rs. 500. There are also Honorary Munsifs, limited to Rs. 200 suits, and village Munsifs, whose jurisdiction is fixed at Rs. 20. a Small Cause Court. There are also Subor-

Local Government.

Local Government is exercised by means of District and Municipal Boards, the former levying local rates on land-owners: the local rates on land-owners; the deriving its revenue from octroi levying latter and other forms of taxation. The aim is to abolish octroi, because it interferes with through trade. Eighty-five Municipali-The aim ties possess the privilege of electing their own members and some of them have non-official Chairman. They are generally composed of nominated and elected members, with an official Chairman, who guides them in their duties. They deal with questions of sanitation, comcases for special purposes from general reve- The administration of the Jaul department is nues. There is a tendency in the Provinces to in charge of an Inspector-General of Prisons, give local self-government a wider extension by means of an increase in the number of boards with non-official Chairmen and recently this privilege has been extended to fifteen Muni-cipalities. Small towns, termed Act XX towns also enjoy some measure of local self-govern-ment and it is under consideration to extend the principle here, too.

Finance.

The Financial history of the Province not been a happy one, inadequate settlements, ..., contracts between the Government of India and the local Government, and the severe famine in 1896 having caused Provincial bankruptcy, which for a long time necessitated rigid economy in order to accumulate reserves which could be spent on productive works. Recently liberal Imperial assignments have been made by the Government of India and the financial prospects are accordingly much brigh-ter, giving hopes that ambitious schemes of reform will be able to be carried into effect. The local Government gets 3-8 only of the land revenue. The Provincial Budget for 1914-15 shows an opening balance of 182 lakhs, revenue 659 lakhs, and expenditure 731 lakhs, and a closing balance of 110 lakhs.

Public Works.

The Public Works Department is divided nto the Roads and Buildings branch and the Irrigation branch, each of which is administered by a Chief Engineer, who is also a Secretary to Government. The Provinces are divided into three circles and ten divisions for the administration of roads and buildings, and into four circles and twenty divisions for irrigation purposes. Each circle is in charge of a Superintending Engineer, and each divi-sion is in charge of an Executive Engineer. The whole of the irrigation works constructed or maintained by Government are in charge of the Department, nearly all metalled roads, and also bridges on second-class roads, and generally, all works costing more than Rs. 1,000, except in Municipalities. The most important irrigation works within the last twenty years have been the construction of the Betwa Canal. the Fatchpur branch of the Lower Ganges Canal, the Mat branch of the main Ganges Canal, improvements in the Robilthand and Terai Canals and extensive drainage operations in the Doab districts of the Meerut and Agra division. Important irrigation extension works are now being considered. The budget for irrigation and other public works for the present year is 140 lakhs.

Police.

The Police Force is divided into District and Railway Police and is administered by an Inspector-General, with five Deputies, one by an Inspector-teneral, with rive Deputies, one of whom is in charge of Railways, and two Assistants, forty-nine District Superintendents, two Railway Superintendents, and thirty Assistant Superintendents, There is a Police Training School at Moradabad. There is a local C. I. D. forming a separate detective department, under a Deputy Inspector General, with an assistant. There is an armed police, specially recruited, and armed with the Martini Rifle. The present cost of the force is 124 lakhs.

who is a member of the Indian Medical Service.

Education.

Education is in part wholly State-maintained; and partly by means of grants-in-aid. There is a State University at Allahabad, a Government Sanskrit College at Benares, whilst Arabic and Persian are taught in special classes at the Muir College, Allahabad, which also has a special science side, which of late has been greatly extended, and there is a Gov-ernment Engineering College at Roorkee (Thomason College). There are aided Colleges in Lucknow (Canning College), (Reid Christian College), and (Isabella Thoburn College), Agra (St. John's), Aligarh (the Mahomedan Oriental College), Gorakpur, Cawnpore and Meerut, and an unaided College at Benares, the Central Hindu College. In Lucknow there is the Martiniere school, an entirely independent institution, for European and Anglo-Indian children, and there is a Girls' Martiniere connected with it, whilst in the Hill-Stations, Naini-Tal and Mussoorie, there are many excellent private scholastic institutions for European boys and girls, which are attended by students from all over India. Government maintain Training Colleges, for teachers in Lucknow and Allahabad, an Art Crafts and an Industrial School in Lucknow, and an Agricultural College at Cawnpore. Public Schools are almost entirely resistance by the Distress of Municipal Beards maintained by the District and Municipal Boards and primary education is almost entirely in their hands. Primary and female education are in a very backward condition and a Commitee has recently been sitting at Naini Tal to suggest a remedy. Technical education is being pushed forward and there is a proposal to establish a Technological Institute in Cawnpore. At the close of 1912 there were 1689 urban schools, attended by 103,138 scholars and 10,003 rural schools attended by 482,355 scholars, and the number of secondary schools for Indian boys was 545, viz, Anglo-Vernacular High Schools 102 with 42,611 scholars, Vernacular Middle Schools 375 with 45,378 scholars and English Middle Schools 68 with 10,284 scholars. The amount budgetted for education this year is 79 lakhs.

Higher education is controlled by the Allahabad University (constd. in 1887) which consists of a Chancellor, Vice-Chancellor and seventyof a Chancellor, Vice-Chancellor and seventyfive ordinary and four ex-officio Fellows, of
whom some are elected by the Senate or by
registered graduates and the Faculties, and
the remainder nominated by the LieutenantGovernor, in his capacity of Chancellor. The
Faculties are those of Art, Science, Law and
Medicine, and the University possesses an
important Law School. It is proposed to establish a Mahomedan University at Aligarh
and a Hindu University at Benares, identifying the M. A. O. College with the former and
the Central Hindu College with the latter. the Central Hindu College with the latter.

The principal educational institutions are:ne Mahomedan Anglo-Oriental College, Aligarh—Principal, J. H. Towle.

The Central Hindu College, Benares-Principal, P. B. Adhikari, offg. St. John's College, Agra—Principal, Rev. A. W. Davies

Muir College, Allahabad-Principal, S. G. Jennings.

Queen's College, Benares-Principal, A. Venis. Canning College, Lucknow-Principal, M. B.

Agra College-Principal, T. Cuthbertson Jones.

Reid Christian College, Lucknow-Principal, Rev. T. C. Badley.

Meerut College-Principal, William Jesse.

Woodstock College, Mussoorie, -- Principal. Rev. H. M. Andrews.

Bareilly College-Principal, J. H. Alderson. Christian College, Allahabad-Principal, Rev. C. A. R. Jauvier.

Christ Church College, Cawnpore-Principal, Rev. M. S. Douglas.

Isabella Thoburn College, Lucknow-Principal, Miss Robinson.

Thomason College, Roorkee—Principal, Lt.-Col. E. H. de Vere Atkinson.

King George's Medical College, Lucknow— Principal, Colonel Selby, I. M. S.

Medical.

The Medical Department is in charge of Inspector-General of Civil Hospitals. Civil Surgeon is in charge and is responsible for the medical work of each district, and in a few of the larger stations he has an assistant. In two stations (Ranikhet and Almora) Medical Officers in military employ hold collateral civil charge. There are eightythree Assistant Surgeons in charge of important dispensaries and a large number of Indian hospital assistants. Lady doctors and female hospital assistants visit purda nashin women in their own homes and much good work is done in this manner.

The best equipped hospitals, for Indian patients are the Thomason Hospital at Agra and the Balrampur Hospital at Lucknow. The Ramsay Hospital for Europeans at Naini Tal is a first class institution and there are also the Lady Dufferin Hospitals. King George's Medical College and the hospital in connexion with it have been opened recently in Lucknow. The College is one of the best equipped in the country, with a staff of highly efficient pro-fessors, and the hospital is the first in the Provinces. There is an X-Ray Institute at Dehra Dun, where valuable research work has been carried out and the Pasteur Institute at Kasauli take cases from all parts of India, and there are sanatoria for British soldiers in the Hills.

Administration.

Lieutenant-Governor, Sir J. S. Meston, K.C.S.I., Assumed charge of office, 16th September1912. Private Secretary, Capt. C. A. Watson Smyth

(1st Brahmans). Aide-de-Camp, Capt. G. C. S. Black (8th Rajputs).

Honorary Aides-de-Camp, Lieut.-Col. P. H. Clutterbuck, Lieut.-Col. J. H. E. Beer, C.L.E., V.D., Lieut.-Col. J. Walker, V.D., Hony. Capt. Subadar Major Kanhai Prasad Dube. Risaldar Major Qudrat Khan Bahadur.

LEGISLATIVE COUNCIL OF THE LIEUTENANT-GOVERNOR.

President, The Lieutenant-Governor.

Vice-President, J. M. Hoims, C.S.I.

Members.

H. H. Nawab Sir Muhammad Hamid Ali, Khan Bahadur, G.C.I.E., G.C.V.O., Wali of Rampur.

Kunwar Aditya N. Singh, of Benares.

J. S. Campbell, C.S.L., C.I.E.

Raja Sir Muhammad Tasadduk Rasul Khan, K.C.S.I.

Nawab Mumtaz-ud-daula Sir Muhammad F. Ali Khan, K.C.I.E., K.C.V.O., C.S.I., of Pahasu.

A. L. Saunders, C.S.I.

R. Burn.

Rai Nathi Mal Bahadur, C.I.E.

Narsingh Prasad.

S. P. O'Donnell.

C. H. Hutton.

W. G. Wood.

Col. C. C. Manifold, C.B., I.M.S.

Lieut.-Col. C. Mactaggart, C.I.E., I.M.S.

C. F. de la Fosse.

D. M. Straight.

H. R. C. Hailev.

H. C. Ferard.

F. Mackinnon. Dr. Tej Bahadur Sapru.

Chaudri Maharai Singh.

Raja F. X. S. Rikh.

Mahadeo Prasad.

Dr. Sundar Lal. C.I.E.

Saiyid Muhammad Abdur Rauf.

Shankar Sahai Sahib.

Balak Ram.

Raja Kushalpal Singh.

Brij Nandan Prasad.

Moti Lal Nebru.

Gopal Prasad.

Maharaja Sir Bhagwati Prasad Singh: K.C.I.E. of Balrampur.

Moti Chand.

Khwaja Ghulam-us-Saglain.

Saivid Raza Ali. Shaikh Shahid Hosain.

Asghar Ali Khan.

H. Ledgard.

Bishambhar Nath.

Sukbir Singh.

O R. Lyle.

H. V. Lovett.

Raja Ramlal Singh, C.I.E., of Kurri-Sudanli.

SECRETARIAT.

Chief Secretary to Government, R. Burn.

Financial Secretary to Government, A. W. Pim. S. P. O'Donnell ' Judicial

Secretary to Government, Public Works Dept. (Buildings & Roads, & Railways), W.G. Wood. C.S.I.	The Right Hon. the Governor-General 1842 in the North-Western Provinces (Lord Ellenborough).
Secretary to Government, Public Works Dept.	Sir G. R. Clerk, K.C.B 1843
(Irrigation), C. H. Hutton.	James Thomson. Died at Bareilly 1843
Registrars, F.E. Lowe, A. Grant, W.J. Summers. F. C. Richardson.	A. W. Begbie, In charge 1853
	J. R. Colvin. Died at Agra 1853
BOARD OF REVENUE.	E. A. Reade, In charge 1857
Members, J. M. Holm, c.s.I.	Colonel H. Fraser, C.B., Chief Commis- sioner, NW. Provinces.
J. S. Campbell, c.s.I., c.I.E.	The Right Hon, the Governor-General 1858
Secretary, J. E. Goudge.	administering the NW. Provinces
MISCELLANEOUS APPOINTMENTS.	(Viscount Canning).
Opium Agent, Ghazipur, C. E. Wild.	Sir G. F. Edmonstone 1859
Director of Land Records and Agriculture, H. R.	R. Money, In charge 1863
C. Hailey.	The Hon. Edmund Drummond 1863
Director of Public Instruction, C. F. de la Fosse.	Sir William Muir, K.C.S.I 1868
Inspector-General of Police, D. M. Straight.	Sir John Strachey, K.C.S.I
Inspector-General of Civil Hospitals, Col. C. C.	Sir George Couper, Bart., C.B 1876
Manifold, I.M.S.	LIEUTENANT-GOVERNORS OF THE NORTH-
Sanitary Commissioner, LieutCol. S. A. Harriss	WESTERN PROVINCES AND CHIEF COMMIS-
Inspector-General of Registration, W. Raw.	SIONERS OF OUDH.
Commissioner of Excise, T. A. H. Way.	Sir George Couper, Bart, C.B., K.C.S.I. 1877
Accountant-General, J. H. Graham.	Sir Alfred Comyns Lyall, K.c.B 1882
Inspector-General of Prisons, Lt. Col. C. Mac-	Sir Auckland Colvin, K.C.M.G., C.I.E 1887
taggart, C.I.E., I.M.S.	Sir Chas. H. T. Crosthwaite, K.C.S.I 1892
Postmaster-General, C. J. H. Hogg.	Alan Cadell (Officiating) 1895
Chemical Analyser and Bacteriologist, Dr. E. H.	Sir Antony P. MacDonnell, K.C.S.I. (a) 1895 Sir J. J. D La Touche, K.C.S.I 1901
I Tryman Commence	(a) Afterwards (by creation) Baron MacDonnell.
LIEUTENANT-GOVERNORS OF THE NORTH	
WESTERN PROVINCES.	PROVINCES OF AGRA AND OUDH.
Sir C. T. Metcalfe, Bart., G.C.B 1836	
The Right Hon, the Governor-General 1999	DIF J. d. II to Toucho was a see
In the North-Western Provinces (Lord	Sir J. J. D. La Touche, K.c.s.i 1902
in the North-Western Provinces (Lord	Sir J. P. Hewett, K.C.S.L. C.I.E. 1907
Auckland).	Sir J. P. Hewett, K.C.S.L., C.I.E
Auckland).	Sir J. P. Hewett, K.C.S.L. C.I.E. 1907

The Puniab.

The Punjab, or land of the five rivers, is so is largely urban. The western plains cover lied from the five rivers by which it is encalled from the five rivers by which it is enclosed, namely, the Jhelum, Chenab, Ravi, Beas and Sulej. Together with the North-West Frontier Province and the Native State of Jammu and Kashmir which lie to the north, the Punjab occupies the extreme north-western corner of the Indian Empire, and with the exception of the above-mentioned province, comprises all of British India north of Sind and Rajputana and west of the river Jumna. Previous to October 1912, the Punjab with its feudatories embraced an area of 136,330 square miles and a population at the Census of 1911 of 24,187,750 (inclusive of 28,587 transfrontier Baluchis) that is to say, about one-thirteenth of the area and population of the Indian Empire. But the formation of a separate province of Delhi reduced the area and rate province of Deini requeed the area and population of the Punjab by about 450 square miles and 380,000 souls respectively. Of the total area of the Punjab, 36,551 square miles are in Native States (34 in number) with a population of 4,212,794, and 2,568 square miles are tribal territory on the wastern border of Dera Ghazi Khan district with a popula-tion of 28,587.

Physical Features.

The greater part of the Punjab consists of one vast alluvial plain, stretching from the Jumna in the east to the Suleman Range in The north-east is occupied by a section of the Himalayas and the Salt Range forms its north-western angle. A few small spurs of the Aravalli mountain system traverse spurs of the Aravan mountain system traverse the extreme south-east and terminate in the Ridge at Delhi. The Punjab may be divided into five natural divisions. The Himalayan tract includes an area of 22,000 square miles, with a scanty population living scattered in tiny mountain hamlets. The Salt Range tract includes the districts of Attock, Rawal-pindi and Jhelum and part of Shahpur district. Its physical configuration is broken and confused and the mountainous tracts of Murree and Kahuta approximate closely in character-istics to the Himalayan tract. Except in the hills, the rainfall leaves little margin for protection against distress in unfavourable seasons and irrigation is almost unknown. Skirting the base of the hills and including the low range of the Siwaliks, runs the narrow sub-montane tract. This tract, secure in an ample rainfall, and traversed by streams from the hills, comprises some of the most fertile and thickly popuprises some of the most fertile and thickly populated portions of the province. Its population of over four millions is almost wholly agricultural and pastoral but it includes one large town in Sialkot. Of the plains of the Punjab, the eastern portion covers an area of some 36,000 square miles with a population of 10½ millions. East of Lahore, the rainfall is everywhere so far sufficient that cultivation is possible without inviration is faithfurware. is possible without irrigation in fairly favour-

lation of a little over six millions. The rainfall in this area, heaviest in the north and east and decreasing towards the west and south, is everywhere so scanty that cultivation is only possible with the aid of artificial irrigation or upon the low-lying river-banks left moist by the retreating floods. In this very circum-stance, these tracts find their ecarcity against stance, these tracts find their scarcity against famine, for there cultivation is almost independent of rain, a failure of which means nothing worse than a scarcity of grass. So little rain is sufficient, and absolute drought occurs so seldom that the crops may be said never to fail from this cause. The western plains embrace the great colony areas on the Lower Chenab and Lower Jhelum Canals which now challenge the title of the eastern plains as the most fertile, wealthy and populous por-tions of the province. Multan and Lyallpur are the largest towns in the western area. Owing to its geographical position, its scanty rainfall and cloudless skies, and perhaps to its wide expanse of untilled plains, the climate of the Punjab presents greater extremes of both heat and cold than any other portion of India. The summer, from April to September, is scorchingly hot, and in the winter, sharp frosts are common. But the bright sun and invigorating air make the climate of the Punjab in the cold weather almost ideal.

The People.

Of the population roughly one half is Mahomedan, three-eighths Hindu and one-eighth Sikh. Socially the landed classes stand high and of these the Jats, numbering nearly five millions, are the most important. Roughly speaking, one half the Jats age Mahomedan, one-third Sikh and one-sixth Hindu. In distribution they are ubiquitous and are equally divided over the five divisions of the province. Next in importance come the Rajputs, who number over a million and a half. The manumber over a million and a half. The majority of them are Mahomedans by religion, about a fourth are Hindus and a very few Sikhs. They are widely distributed over the province. Both Jats and Rajputs of the Punjab provide many of the best recruits for the Indian Army. The Gujars are an important agricultural and pastoral tribe, chiefly found in the eastern half of the province and in the extreme north-west. In organisation they have the state of the appropriate of the province and state of the closely resemble the Jats and arc often absorbed closely resemble the Jats and are often absolute into that tribe. There are many minor agricultural tribes, priestly and religious castes (Brahmans, Sayads and Kureshis), most of whom are landholders, the trading castes of the Hindus (Khatris, Aronas and Banias) and trading castes of the Mahomedans (Khojas, Parachas and Khakhas), and the numerous artisan and menial castes. There are also vagrant and criminal tribes, and foreign eleable seasons, but over the greater part of the rea the margin is so slight that, except where in the rainfall involves distress, if not actual famine. Within the eastern plains lie the large cities of Lahore and Amritsar, and the population is comparison with the western Punjab scattered all over the province engaged in

horse-dealing, labour and trade.

Languages.

The main language of the province is Punjabi, which is spoken by more than half the population. Western Punjabi may be classed as a separate language, sometimes called Lahudi, and is spoken in the north and west. The next most important languages are Western Hindi, which includes Hindustani, Urdu (the polished language of the towns) and other Hindi; Western Pahari, which is spoken in the hill tracts; and Rajasthani, the language of Rajputana. Baluchi, Pushto, Sindhi and Tibeto-Burman languages are used by small proportions of the population.

Agriculture.

Agriculture is the staple industry of the province, affording the main means of subsistence to 56 per cent. of the population. It is essentially a country of peasant proprietors. About one-sixth of the total area in British districts is Government property, the remaining five-sixths belonging to private owners. But a large part of the Government land is so situated that it cannot be brought under so situated that it cannot be orough under cultivation without extensive irrigation. Thus the Lower Chenab Canal irrigates nearly 1,900,000 acres of what was formerly waste land and the Lower Jhelum Canal 390,000 acres, and the Lower Barl Doab Canal when completed will add considerably to this total. Large areas in the hills and elsewhere which are unsuited to cultivation are preserved as forest lands, the total extent of which is about 8,700 square miles. Of the crops grown, wheat of the square mines. Of the crops grown, wheat is the most important and the development of irrigation has led to a great expansion of the wheat area, which now occupies in an average year over 83 millions of acres. The average annual outturn of wheat is 3,000,000 tons, valued at present prices at approximately £20,000,000. Next in importance to wheat is gram, the average annual produce of which is a million tons valued at £5,000,000. Other important excellences have a service of the service of important staples are barley, rice, millets, maize, oilseeds (rape, toria and sesamum, cotton and sugarcane. Cotton is grown generally throughout the province but the rayages rally throughout the province but the ravages of boll-worm have affected the popularity of the crop. The cotton grown is of the short stapled variety, known as 'Bengals'. The country being preponderantly agricultural, a considerable proportion of the wealth of the people lies in its live-stock. The latest cattle census gives the following figures:—cattle, nearly 8,000,000 bead: buffalces, about 850,000; beams a young stock 8,800,000; sheep, 4,500,000 nearly 8,000,000 nead: numaioes, about 850,000; bovine young stock, \$,800,000; sheep, 4,500,000, goats, 4,250,000. Large profits are derived from the cattle and dairy trades and wool is a staple product in the south-west in Kulu and Kangra and throughout the plains generally. rally. The production of hides and skins is also an important industry.

Industries.

The mineral wealth of the Punjab is small. rock salt, saltpetre, and limestone for road-building being the most important products. There are some small coal mines in the Jhelum district and gold-washing is carried on in most or more Assistant Commissioners (Coven-

A small; of the rivers, not without remunerative results. Tibetan element is found in the Himalayan Iron and copper ores are plentiful but difficulties of carriage and the absence of fuel have hitherto prevented smelting on a large scale. The Punjab is not a large manufacturing country, the total number of factories being only, 268 of which 202 are devoted to cotton ginning, cleaning and pressing. Cotton weaving as a domestic industry is carried on by means of hand looms in nearly every village. The Salvation Army has shown considerable enterprise in improving the hand-weaving industry. Blankets and woollen rugs are also produced in considerable quantities and the carpets of Amritsar are famous. Silk-weaving is also carried on and the workers in gold, silver, brass, copper and earthernware are fairly numerous and ivory carving is carried on at Amritsar and Patials. The trade of the pro-vince is steadily expanding, the total internal trade being valued at 57½ crores of rupees. The external trade with Afghanistan, Ladakh and Tibet is valued at 6½ lakhs.

Administration.

The administrative functions of Government are performed by a Lieutenant-Governor, appointed by the Governor-General with the approval of the Crown. The Lieutenant-Governor in practice is always a member of the India Civil Scaule through allicent warm. the Indian Civil Service though military members of the Punjab Commission are eligible for the position. The Punjab Commission, the body which is responsible for the Civil administration of the province, is recruited from the Indian Civil Service and the Province cial Civil Service. Up to the date of the separation of the North-West Frontier Province from the Punjab, one-fourth of the cadre was drawn from the Indian Army. The business of Government is carried on through the usual or tovernment is carried on through the usual Sceretariat which consists of three Secretaries, designated (1) Chief, (2; Revenue and (3) Financial Secretaries, and three Under-Secretaries. In the Public Works Department, there are also three Secretaries (Chief Engineers), one in the Buildings and Roads Branch and two in the Investical Branch The heads and two in the Irrigation Branch. The heads of the Police and Educational Departments are also Under-Secretaries to Government. The Government spends the winter in Lahore and the summer (from the middle of May to the middle of October) in Simla. The Lieute-nant-Governor has no Executive Council, but is assisted in legislative business by a Legislative Council, our are elected and 16 nominated by the Lieutenant-Governor. Of the nominated members, not more than ten may be officials, in addition there may be two nominated expert members. Under the Lieutenent-Governor, the province is administered by five Commissioners (for Ambala, Jullundur, Lahore, Rawalpindi and Multan) who exercise general control over the Deputy Commissioners—28 in number—each of whom is in charge of a district. A district on an average contains four tabells, each conon an average contains four tabells, each con-sisting of about 300 villages. The Deputy Commissioner is usually a Covenanted Civilian or military member of the Punjab Commis-sion, although two Deputy Commissionerships are "listed" for Provincial Civil Servants. The Deputy Commissioner has under him one

anted Civilians) and one or more Extra Assist- limited to suits not exceeding Rs. 1,000 ant Commissioners (Provincial Civilians). In in value. The assistants to Deputy Comsome cases, one or more tablis form, a sub- missioners are always invested with the ant Commissioners (Provincial Civilians). In some cases, one or more tahsils form a subdivision under the charge of a sub-divisional officer who has wide powers. The tahsil is in charge of a Tahsildar, in some cases assisted by one or more Naib Tahsildars. The village is under a Lambardar or headman and in most district the village care ground into rolls. is under a Lambardar or neadman and in most districts the villages are grouped into zails, each under a zaildar. The lambardars and zaildars are "village officers" and not Gov-ernment-servants. The district Land Re-cords and Excise staff, though organised for special departmental purposes, is available for general administrative work. The Native States of the province are arranged for the purposes of supervision into five groups, each under the charge of a Political Agent. Except in the case of the Sikh Phulkian States (Patiala, Jhind and Nabha) and Bahawalpur, the Political Agent is either the neighbouring Commissioner or Deputy Commissioner. The principal heads of Department in the province are the two Financial Commissioners (who are the highest Court of Revenue jurisdiction, and heads of the departments of Land and Separate Revenue and of Agriculture and the Separate Revenue and of Agriculture and the Court of Wards), the three Chief Engineers, the Inspector-General of Police, the Director of Public Instruction, the Inspector-General of Prisons, the Inspector-General of Civil Hospitals, the Sanitary Commissioner, the Conservator of Forests, the Director of Agriculture and Industries, the Inspector-General of Registration and the Legal Remembrancer. The Accountant-General, the Postmaster-General the Director of Telegraph Provincents The Accountant-General, the Postmaster-General, the Director of Telegraph Engineering, and the Agent, North-Western Railway, represent Imperial Departments under the Government of India.

Justice.

The administration of justice is entrusted to a Chief Court, which is the final appellate authority in civil and criminal cases, and has powers of original criminal jurisdiction in cases where European British subjects are charged with serious offences and original civil juris-diction in special cases. The Court sits at Lahore and is composed of a Chief Judge and four puisne judges (either Civilians or barris-ters), a sixth additional judge whose appointment is sanctioned for two years and a seventh and eighth additional judge whose appointment is sanctioned for one year. Owing to the accumulation of arrears of business a further increase in the permanent strength of the Court is only a question of time, and there is a strongly supported movement in the province in favour of raising the Court to the status of a High Court. Subordinate to the Chlef Court are the District and Sessions Judges (22 in the District and Sessions Judges (22 in number) each of whom exercises civil and criminal jurisdiction in a civil and sessions division comprising one or more districts. They hear most of the first appeals in Civil suits and try sessions cases and hear criminal appeals from the district and first class magistrates. One or two divisions heave an additional trates. One or two divisions have an additional judge and in many districts a Subordinate Judge exercising unlimited civil jurisdiction, is appointed to assist the District Judge but the ments in the proportion of one half to each majority of civil suits are tried in the first majority of civil suits are tried in the first instance by Munsifs whose jurisdiction is

missioners are always invested with the powers of a Munsif, but the former practice of investing Tahsildars with Munsif's powers is being gradually discontinued. At Lahore, Amritsar and Simla there are Courts of Small Causes. The Deputy Commissioner is the District Magistrate and controls the subordinate Criminal Courts of the District. All the assistants of the Deputy Commissioner as well as the District and Subordinate Judges, but not the Munsifs, are invested with magis-terial powers. Tahsildars usually exercise the powers of a second class magistrate and Naib Tahsildars those of the third class, and considerable assistance is obtained from Honorary Magistrates who sit either singly or as a bench. In districts in which the Frontier Crimes Regulation is in force the Deputy Commissioner on the finding of a Council of Elders (Jirga) may pass sentence up to four years' imprisonment. In all cases capital sentences require the confirmation of the Chief Court. Special Revenue Courts to decide all suits regarding tenant right, rents and cognate matters in which civil courts have no jurisdiction have been established under the Punjab Tenancy Act. The Financial Commissioners are the final court of appeal in revenue cases.

Local Government.

Local control over certain branches of the administration is secured by the constitution of district boards exercising authority over a district and of municipalities exercising authority over a city or town. A few districts have local boards which exercise authority over a tahsil. These bodies are composed of members either nominated by Government or selected by the people and they are empowered to spend the funds at their disposal on schools and dispensaries, vaccination, sanita-tion, roads and rest houses and general improvements. The funds of district boards are derived mainly from a cess on the land revenue of the district supplemented by grants from Provincial Funds, and those of municipalities from octroi, local taxation and Government ment grants. In the smaller towns which are known as "notified areas", a simpler form of government than the municipal system is in force. Where the elective principle is in force as regards both district boards and municipalities, the public shows very little interest in the elections, except in a few cases where sectarian feeling runs high.

Finance.

Under the present system of decentralisation in finance, the Imperial Government delegates to the Punjab Government the control of expenditure on the ordinary administra-tive services together with the whole or a certain proportion of certain heads of revenue sufficient to meet those charges. Of the vasumicient to meet those enarges. Of the Various heads of revenue post office, telegraphs, railways, opium and salt are entirely Imperial. Land revenue, stamps, excise, incometax and major irrigation works are divided between the Imperial and Provincial Governments in the proportion of one half to each. Minor irrigation works and some minor heads a divided in verying proportions. while the

revenue from forests, registration, courts of law, jails, police and education are wholly provincial as well as the income of district boards and municipalities. The Budget for 1914-15 shows a total revenue (including opening balance) of Rs. 6.44,50,000, and a total expenditure of Rs. 5,00,20,000, leaving a closing balance of Rs. 1,44,21,000.

Public Works.

As was stated in the section on "Administration" the Public Works Department is divided into two branches one for Buildings and Roads and the other for Irrigation. In the former branch, under the Chief Engineer, the province is divided into three circles under Superintending Engineers and 11 divisions Executive Engineers, while under Edward Memorial at Lahore also constitutes a special division. The primary object of this branch is the construction and maintenance of Imperial and Provincial works, but it also assists municipalities and district but it also assists municipalities and district boards. The Irrigation branch is under two Chief Engineers, one of whom is also Chief Engineer of Irrigation Works in the North-West Frontier Province. Under them are nine Superintending Engineers in charge of circles and 39 Executive Engineers in charge of divisions. In addition to the work of con-struction and maintenance Irrigation Officers are responsible for the assessment of water rates leviable on irrigated areas and in several districts where the land revenue demand is assessed on the fluctuating principle, for the formulation of this demand on irrigated crops as well.

Irrigation.

The canal system of the Punjab is admittedly one of the greatest achievements of British rule in India. Not including the enormous Triple Canal project now in process of completion, the total irrigated area in British districts and Native States amounts to 8,269,233 acres. The Beas is the only one of the great rivers of the province from which no canal takes off. The Indus provides supplies for two large series of inundation canals, one on either bank. Taking off from the Jhelum is the Lower Jhelum perennial canal, with 150 miles of main channel and 1,000 miles of distributaries and lower down the river is a large series of inundation canals. The Lower Chenab perennial canal takes off from the Chenab and comprises 427 miles of main channel and branches and 2,278 miles of branches, while below the junction of the Chenab and Ravi rivers is a series of inundation canals on both banks. The Ravi provides supplies for the Upper Bari Doab Canal, which has 370 miles of main line and branches and 1,571 miles of distributaries. Some small inundation canals and the Sidhani system with a length of 200 miles also take off from the Ravi. The Sirhind Canal, which has a main line and branches of 538 miles and distributaries amounting to 3,703 miles, takes off from the Sutlei, and there are two systems of inundation canals deriving their supplies from the Upper and Lower Sutlei respectively in addition to the Grey Canals maintained on the cooperative system in the Ferozepore district and a vast series of inundation canals in Baháwahur

State. The Western Jumna Canal which takes off from the right bank of the Jumna has a main line and branches of 377 miles and distributaries of 1,764 miles. The Triple Canal project is intended to carry surplus water from the Jhelum and the Chenab to supplement the scanty supplies in the lower reaches of the Ravi and incidentally to afford irrigation to the tracts through which the supply channels pass. The three canals included in the project are known as the Upper Jhelum, Upper Chenab and Lower Bari Doab Canals. Of these the Upper Chenab was opened in April 1912 and the Lower Bari Doab in April 1913 and it is hoped that the Upper Jhelum will be ready for opening before long. The most interesting feature of this great work is the level crossing at Balloki, 40 miles from Lahore, where the Upper Chenab canal supply is passed across the Ravi into the Lower Bari Doab Canal. The revised estimate of the cost of the whole scheme is £64 millions.

Police.

The Police force is divided into District and Railway Police. The combined force is under the control of the Inspector-General, who is a member of the mazetted force and has under him three Deputy Inspector-Generals, for the Eastern (Ambala), Central (Lahore) and Western (Rawalpindi) Ranges respectively and a fourth Deputy Inspector-General in charge of Railway Police, Criminal Investigation, the Police Training School and Finger Print Bureau at Phillaur. The Railway Folice are divided into two districts, Northern and Southern, each under a Superintendent. The District Police are controlled by Superintendents, each of whom is in charge of a district, and has under him one or more Assistant Superintendents. The district is divided into circles under charge of Inspectors, and again into thanas in charge of a Sub-Inspector. The staff of a thana consists on an average of one Sub-Inspector, two head constables and 10 constables. A service of Provincial Police officers has also been established consisting of 18 Deputy Superintendents, who are employed as assistants to the Superintendents. The total police force of the province exclusive of gazetted officers, consists of 1,075 officers and 19,974 men, practically half of whom are armed with revolvers and bored out riffes. The village police or chaukidars are under the control of the Deputy Commissioner of each district not of the Police Superintendent.

Education.

athough the Punjab is usually considered rather a backward province, education has miles of distributaries. Some small inundation canals and the Sidhani system with a length of 200 miles also take off from the Ravi. The Sirhind Canal, which has a main line and branches of 538 miles and distributaries amounting to 3,703 miles, takes off from the Sutiej, and there are two systems of inundation canals deriving their supplies from the Upper and Lower Sutlej respectively in addition to the Grey Canals maintained on the cooperative system in the Ferozepore district and a vast vastem of inundation canals in Baháwalpur leges for males and 2 for females; 101 High

Schools for boys and 16 for girls; 211 middle schools for boys and 36 for girls; 3,417 Primary Schools for boys and 637 for girls; 31 schools for special instruction for boys and 25 for girls. The number of pupils attending schools of all classes is 276,000 boys and 36,400 girls. The nine arts colleges are:—The Government, Oriental, Forman Christian, Dayanand, Islamia and Dayal Singh Colleges at Lahore; Khalsa, Amritsar; Murray, Sialkot; Gordon, Rawaipindi. Professional education is represented by the Law, Medical and Veterinary Colleges at Lahore, the Agricultural College at Lyalpur, the Clerical and Commercial School at Amritsar, the Engineering School at Rassaul, the Mayo School of Art and the Railway Technical Schools in the Province maintained by Municipalities or District Boards and others maintained by Missionary bodies, the Arya Samaj, etc., which receive grants-in-aid. The education of the domiciled community is provided for by a number of secondary boarding schools in the plains. The aristocracy of the province is provided for by the Aitchison Chiefs' College for boys and the Queen Mary's College for girls, both at Lahore.

The Education Department is administered by the Director of Public Instruction, who has under him an Inspector of Schools in each civil division with two or more assistants, a District Inspector, with assistants, in each district, two Inspectresses of girls' schools and an Inspector of European schools. Higher education is controlled by the Punjab University (incorporated in 1882) which has the Lieutenant-Governor as ex-officio Chancellor, a Vice-Chancellor appointed by Government and a Senate. In addition to the nine arts colleges already mentioned and the Law and Medical Colleges at Lahore, St. Stephen's College, Delhi, and the Hindu College, Delhi, and six other colleges in Kashmir, Patiala, Bahawalpur, Kapurthala and the North-West Frontier Province are affiliated to the Punjab University.

Medical.

The Medical Department is controlled by the Inspector-General of Civil Hospitals (a member of the Indian Medical Service) who also supervises the departments of the Chief Plague Medical Officer and the Chief Malaria Medical Officer. Sanitation is controlled by the Sanitary Commissioner (also a member of the Indian Medical Service) who has under him a Deputy Sanitary Commissioner and is advised by the Sanitary Board, with the Sanitary Engineer as Technical Adviser. Medical work in the districts is in charge of the Civil Surgeons, of whom fourteen are members of the Indian Medical Service and others Military Assistant Surgeons and unconvenanted Medical Officers, chiefly Civil Assistant Surgeons. The Mayo Hospital at Lahore and special railway, canal and police hospitals are maintained by Government, but the ordinary hospitals and dispensaries in the districts are maintained by municipal or district funds. Certain private institutions such as the Walker Hospital at Simila and many mis-

sion dispensaries receive grants-in-aid. The Mayo Hospital at Lahore is being greatly extended and improved as a memorial to King Edward VII. The total number of patients treated at all hospitals and dispensaries in the year is over four millions, including nearly 75,000 in-patients. A temporary department to combat plague has been organised under the Chief Medical Plague Officer. In the districts the Civil Surgeons are generally in charge of the operations against plague, but additional officers are employed from time to time. There is only one lunatic asylum in the Province at Lahore, but there are ten leper asylums. The Pasteur Institute at Kasauli performs the functions of a provincial laboratory for the Punjab. Vaccination is supervised by the Sanitary Commissioner, but is more particularly the concern of the Deputy Sanitary Commissioner, who has under him a special staff. Civil Surgeons also have a local staff of vaccinators under them.

Lieutenant-Governor, Sir M. F. O'Dwyer, K.C.S.I. Assumed charge 1913.

PERSONAL STAFF.

Private Secretary, Lieut.-Col. E. C. Bayley, C.I.E., I.A.

Aide-de-Camp, Mr. P. Stuart, I.C.S.

Honorary Aides-de-Camp, Lieut.-Col. W. T Wright, Hony. Capt. Gopala, Risaldar Major Muhamud Hayat Khan, Subedar Bahadur Gulab Singh.

LEGISLATIVE COUNCIL.

President, The Lieutenant-Governor. Vice-President, A. H. Diack, c.v.o.

MEMBERS.

Nominated.

Nawab Sir Bahram Khan, K.C.I.E.

J. C. Godley, c.s.i.

Sir A. M. Ker, Kt., C.I.E., M.V.O.

Mian Muhammad Shafi, Khan Bahadur. Sundar Singh, Majithia, Sardar Bahadur.

H. J. Maynard.

R. A. Mant.

A. H. Diack, c.v.o.

C. A. Barron, C.I.E.

P. J. Fagan.

S. W. Gracey.

Sardar Daljit Singh, C.S.I.

Khwajah Yusuf Shah, Khan Bahadur. Nawab Ibrahim Ali Khan of Kunjpura.

J. P. Thompson.

Col. R. S. Maclagan, C.B., C.S.I.

Elected.

J. Currie.

Lala Kashi Ram of Ferozepore. Ram Saran Das of Lahore. Hari Chand of Multan.

Gaijan Singh of Ludhiana.

Bakhshi Sohan Lal of Lahore.	Conservator of Forests, R. McIntosh.
Malik Muhammad Amin Khan of Shamsabad. Sir P. C. Chatarji, C.I.E.	Inspector-General of Civil Hospitals, Col. C. J. Bamber, M.V.O.
Secretary, S. W. Gracev.	Sanitary Commissioner, LtCol. E. Wilkinson,
SECRETARIAT.	Inspector-General of Prisons, LtCol. G. F. W. Braide.
Chief Secretary, C. A. Barron, C.I.E.	Accountant-General, A. M. Brigstocke, I.C.S.
Revenue Secretary, J. P. Thompson.	Postmaster-General, C. H. Harrison, I.C.S.
Financial Secretary, R. A. Mant. Registrar, W. Burr-Bryan, 1.S.O.	Registrar of Co-Operative Credit Societies and Joint Stock Companies, A. Langley.
PUBLIC WORKS DEPARTMENT.	LIEUTENANT GOVERNORS OF THE PUNJAB.
Irrigation Branch.	Sir John Lawrence, Bart., G.C.B 1859
Secretaries, R. E. Purves, F. E. Gwyther.	Sir Robert Montgomery, K.C.B 1859
Buildings and Roads Branch.	Donald Friell McLeod, c.B 1865
Secretary, Col. R. S. Maclagan, C.B., C.S.I. R. E.	Major-General Sir Henry Durand, 1870 K.C.S.I., C.B., died at Tonk, January 1871.
REVENUE DEPARTMENT.	R. H. Davies, c.s.i 1871
Financial Commissioners, A. H. Diack, C.V.O.	R. E. Egerton, C. S. T 1877
Sir M. W. Fenton, K.C.S.I.	Sir Charles U. Aitchison, K.C.S.I., 1882
Director of Agriculture and Industries W.	C.I.E.
S. Hamilton.	James Broadwood Lyali 1887
Director of Land Records, Inspector Genl. of	Sir Dennis Fitzpatrick, K.C.S.I 1892
Registration, and Registrar-General, B. T. Gibson.	William Mackworth Young, c.s.i 1897
Director of Fisheries, G. C. L. Howell.	Sir C. M. Rivaz, K.C.S.I 1902
Miscellaneous Appointments.	Sir D. C. J. Ibbetson, K.C.S.I., resigned 1907 22nd January 1908.
Director of Public Instruction, J.C. Godley, C.S.I.	T. G. Walker, C.S.I., (offg.) 1907
Inspector-General of Police, LicutCol. H. T.	Sir Louis W. Dane, K.C.I.E., C.S.I 1908
Dennys, I.A.	James McCrone Douie (offg.) 1911
A. H. Close (N. W. Frontier Province).	Sir M. F. O'Dwyer, K.C.S.I 1913

Burma.

The Province of Burma lies between Assam | the only means of communication. The Irraon the North-West and China on the North-East, and between the Bay of Bengal on the West and South-West and Siam on the South-East. Its area is approximately 261,899 square miles of which 169,000 are under direct British Administration and 68,000 belong to Native independent or semi-independent States. The main geographical feature of the country is the series of rivers and hills running fan-like from North to South with fertile valleys in between widening and flattening out as they approach the Delta. On the West are the high hills of the Chin country, Manipur and Assam, and on the East the uplands of the Shan States. On the South are the hill ranges of Siam. The country is divided East and West by the Dry Zones which has most of the features of the highlands of India. South and North of these are the Wet Zones with a rich tropical of these are the wet zones with a near tropical vegetation. The climate of the Dry Zone resembles that of Behar, the temperature in May rising to 116°; the climate of the Watzones is moist but fairly equable. The magnificent rivers, the number of hilly ranges (You mas) and the abundance of forests, all combine to make the scenery of Burma exceedingly varied and picturesque.

The People.

The total populations of Burma at the census of 1911 was 12,115,217. Of this total, 7,642,204 are Burmans, 996,420 Shans, 919,641 Karens, 239,953 Kachins, 306,486 Chins, 344,123 Arakanese and 320,629 Talaings. There is also a large alien population of Chinese 108,877 and Indians about 600,000, while the European population is 24,355.

The Burmans who form the bulk of the population belong to the Tibetan group and their language to the Tibeto-Chinese family. They are essentially an agricultural people, 80 of the agriculture of the country being in their hands. Their chief concern is with their fields and their pagodas. As long as they are left in peaceful enjoyment of these, they are ap-parently indifferent as to the Government of the country. In appearance the Burman is usually somewhat short and thick-set with Mongolian features. His dress is most distinctive and exceedingly comfortable. It consists of a silk handkerchief bound round his sists of a six mandacture both a round round round round round round in forehead, a loose jacket on his body and a long skirt-loongyi tied round his waist, reaching to his ankles. The Burman woman, perhaps the most pleasing type of femininity in the East, lead a free and open life, playing a large part in the household economy. Their dress is somewhat similar to the man's minus the silk kershift on the head and the loongyl is silk kerchief on the head and the loongyl is tucked in at the side instead of being tied in front. A well dressed and well groomed Burmese lady would, for grace and neatness, chal-

waddy Flotilla Company, with a fine fleet of mail cargo and ferry boats, gives the Irrawaddy and the Delta rivers and creeks a splendid river service.

The Burma Railways Company has a length of 1,528 miles open line. The principal lines are from Rangoon to Mandalay; from Sagaing to Myitkyina, the most northern point in the system: the Rangoon-Prome line, and the Pegu-Martaban line which serves Moulmein on the further bank of the Salween River. An important branch line runs from Thazi on the main line across the Meiktila and Myingyan Districts to Myingyan Town on the Irrawaddy. Another branch goes from Sagaing on the Irra-waddy to Alon on the Chindwin. A small branch on the Sagaing-Myitkyina line runs from Naba to Katha on the Irrawaddy. A branch on the right bank of the Irrawaddy runs from Bassein to Kyangin. An important line, the Southern Shan States Railway, is under construction. It leaves the main line at Thazi and will run due East along the uplands to Yawnghwe, the principal town on the rich valley of the Nam Pilu.

The length of metalled roads is 2,006 miles and of unmetalled roads 10,440. The number of roads for a rich province like Burma is quite inadequate. One of the most urgent needs of the Province is a very generous extension of roads both metalled and unmetalled.

Industry.

Agriculture is the main industry of the Province, 71.63 per cent. of the population being engaged in it. The net total cropped area was in 1912-13, 14‡ million acres. The bulk of the crop is paddy of which a surplus of 2,620,000 tons was exported in 1912-13. Paddy forms 62 per cent. of the total exports of the Province. Over 45,000 bales of cotton were produced. The outturn of groundnut in 1912-13 was 75,000 tons. Sesamum and wheat are also produced.

Forests play an important part in the industrial life of the Province. The total area of reserved and unclassed forests is 133,613 square miles. Wood is extracted by lessees, of whom the Bombay-Burma Trading Corporation and Messrs. Steel Brothers are the principal. In 1912-13 Government extracted 41,000 tons of teak, while purchasers extracted 214,000 tons.

A third important branch of industry consists of working in mines and quarries in which Burma is particularly rich. The petroleum fields are in the Dry Zone, chiefly at Yenangyaung in the Magwe District where the principal extractor is the Burma Oil Company. The total output of petroleum for the Province in 1912-13 was 245 million gal-Communications.

The Irrawaddy and to a less extent the Chindwin afford great natural thoroughfares to the country. At all seasons of the year these rivers, especially the Irrawaddy, are full of salling and steam craft. In the Delta, the net-work of water ways is indeed practically 56 Burma.

The Burma Mines Company at Badwin in i the Northern Shan States produced 22,563 tons of lead slag, valued at Rs. 8.96 lakhs and 2,950 tons of silver lead ore valued at Rs. 61,415. Tavoy and Mergui Districts produced 8,026 cwts, of Wolfram valued at Rs. 4.99 lakbs. The Tawmaw Mines of the Myitkyina District produced 806 cwts. of jade, valued at Rs. 24,299.

The rubber industry is still in its infancy, only 10 plantations employing more than 20 persons. The plantations are situated in the Mercui, Amherst, Hanthawaddy and Toungoo Districts. At the Census of 1911, 4,047 people were returned as engaged in the production of rubber. The total quantity exported in 1913-14 was 6,831 cwts. The proexported in 1913-14 was 0,001 cwest. The production for 1915 is estimated at 1,500,001, and 1917 at 3,000,000. The prospect of rubber in this Province is very promising. Well managed estates have proved that the products of rubber in Burma is a success. Rubber is grown on ground unsuitable for paddy and the area available is very considerable.

Manufacturers.

Out of a total of 307 factories, 165 are engaged in milling rice. Of the rest 88 are Saw Mills. At the Census of 1911, 469,743 or only 6.6 of the total population were engaged outside agriculture and production. As is the case in other parts of the Indian Empire, the imported and factory made article is rapidly ousting the home made and indigenous. But at Amaranura in the Mandalay District

But at Amarapura in the Mandalay District a revival is being made of hand silk-weaving. Burman wood carving is still famous and many Burman wood carving is still tamous and many artists in silver still remain, the finish of whose work is sometimes very fine. Bassein and Mandalay parasols are well known and much admired in Burma. But perhaps the most famous of all hand-made and indigenous in the leaguest week. dustries is the lacquer work of Pagan with its delicate patterns in black, green and yellow traced on to a ground work of red lacquer over bamboo. Lacquered articles ranging from those of the most exquisite finish to those of ranging from a coarse description are produced at Pagan on the Irrawaddy and are sold throughout the length and breadth of Burma.

Trade.

The total value of the foreign trade was Rs. 4,326 lakhs, imports being Rs. 2,535 lakhs. Rangoon is facile princeps in the trade of the Province, accounting for 82.22 per cent. of the total, at a value of Rs. 4,419 lakhs. The net Customs duty was Rs. 184 lakhs.

The most important item of merchandise The most important item of merchandise imported into Rangoon is manufactures of cotton, which account for 25 per cent, of the total import trade. These imports are valued at Rs. 575.60 lakbs. The United Kingdom possesses 83 per cent. of the total

members, one of whom is elected by the Burma jurisdiction in Rangoon Town.

Chamber of Commerce and the remaining fourteen are nominated by the Lieutenant-Governor. Not more than six members may be official; the rest must be non-officials and at least four must be selected from the Burmese population, one from the Indian and one from the Chinese community.

Burma is divided administratively into Upper Burma (including the Shan States and Chin Hills) and Lower Burma. The Shan States are administered by the Chiefs of the States, subject to the supervision of the Superintendents in the case of the Northern and Southern Shan States, and to the super-vision of the Commissioners of the adjoining Divisions in the case of the other States. The Civil, Criminal and Revenue administration is vested in the Chief of the State subject to the restrictions contained in the sanad. The law administered is the customary law of the

The Chin Hills are administered by a Superintendent.

Under the Lieutenant-Governor are eight Commissioners of divisions, four in Upper and four in Lower Burma. Commissioners in Upper Burma and the Commissioner of the Arakan Division are ex-officio Sessions Judges, but the other three Commissioners have been relieved of all judicial work.
Under the Commissioners are 39 Deputy
Commissioners including the Police officers

in charge of the Hill Districts of Arakan and the Salween District, who exercise the powers of Deputy Commissioner. Deputy Commis-sioners are also District Magistrates, Collectors, and Registrars, except in Rangoon where there is both a District Magistrate and a Collector. Subordinate to the Deputy Commissioner are Assistant Commissioners. Extra Assistant Commissioners and township officers, Assistant Commissioners and township oncers, called Myooks. In the villages are the village headmen, thugyis, assisted in Lower Rurma by the Seelngaungs (rural policemen in charge of ten houses.) The revenue administration is controlled by a Financial Commissioner is controlled by a Financial Commissioner assisted by two Secretaries. Subordinate Departments are in charge of a Commissioner of Settlements and Land Records, a Director of Agriculture, a Superintendent of the Civil Veterinary Department and a Registrar of Co-operative Credit Societies.

Justice.

The administration of Civil and Criminal Justice is under the control of the Chief Court of Lower Burna with five judges, and of the Judicial Commissioner. Upper Burna, with an Assistant Judicial Commissioner. There are six Divisional and eight District Judges. There are also separate Provincial and Subordinate Judicial Services. Divisional Judges are also Sessions Judges. The Chief Court at Rangoon valued at Rs. 575.60 lakhs. The United Kingdom possesses 83 per cent. of the total import trade.

Administration.

In 1807 the Province which had formerly been administered by a Chief Commissioner was raised to a Lieutenant-Governorship. The head of the Province is therefore now the Lieutenant-Governor. He has a Council of fifteen members, one of whom is elected by the Burma.

In Criminal and Civil matters the Judicial Commissioner, Upper Burma, exercises the power of a High Court for appeal, reference and revision, except in respect of criminal cases in which European British subjects are concerned.

All village headmen have limited Magisterial powers and a considerable number are also invested with civil jurisdiction to a limited

Municipalities.

The Rangoon Municipality is the most important, with an income of Rs. 41.61 lakhs and an expenditure of Rs. 39.19 lakhs. The Chairman is a member of the Indian Civil Service, of Deputy Commissioner's rank. members of the Committee are elected by wards.

There are 45 minor Municipalities of which the most important are those at Mandalay Moulmein. The average incidence of Municipal taxation is Rs. 2-6-6.

Local Funds.

No Local Boards nor District Boards exist in Burma. In their place in Lower Burma, there are District Cess Funds, derived mostly from a 10 per cent. cess on collections of ordi-nary local revenue and from collections from markets, ferries, slaughter houses, etc. The total receipts amount to over 30'97 lakhs.

In Upper Burma, there are District Funds. The

They are derived from market, ferry and license fees and occasional grants from Provincial revenues. The total revenue was over 6:17 lakhs.

There are 7 Cantonment Funds, 17 Town

Funds and, excluding the Rangoon Port Trust, 6 Port Funds.

Finance.

As in the case of all other Provinces, the finances of Burma are based on a "Provincial Settlement." In the case of Burma, it came into force on the 1st April 1907 and the Government of India retains in the first place the entire profts of the commercial departments, such as Posts and Telegraphs, and in the second place, all the revenue where the locale is no guide to its true incidence, such as the net receipts from Customs, Salt and Opium. But as the income from these sources is inadequate for the purpose of meeting the cost the Imperial Services, special arrangements are made as with other Provinces for the division of the remaining sources of revenue between Imperial and Provincial Funds.

In 1910-1911, as a result of the Report of the Decentralisation Committee, modifications were introduced into the Settlement. Briefly, the Local Government, retains 5-8ths of the net Land Revenue instead of a half and the whole of the net Forest revenue. The following figures show the gross revenue and expenditure for

1912-13 :--

		Recei	pts.	Expend	iture.
		Rs	3.	Rs	
Imperial .		374.13	lakhs	77:38	lakhs
Donated and the state of the st				519.58	,,
Local Funds .		37.14	,,	33.20	,,
Municipalities		110.42	1)	106.40	"
Other Funds		104.00	**	116.83	,.
The Imperi	. 1	Corre	m mont	moleog	Avoi

Government assignments of approximately to the Burma Government.

Public Works.

This Department is administered by two Chief Engineers who are also Secretaries to Government in the Public Works Depart-Superintending Engineers ment. There are (including one for Irrigation and a Sanitary Engineer), 83 Executive Engineers and As-sistant Engineers. A Consulting Architect is attached to Head Quarters.

There are four Major Irrigation Works-Mandalay, Shwebo and Mon Canals. The Ye-U canal in the Shwebo District is under construc-

Police.

The Police Force is divided into Civil Hilitary and Rangoon Town Police. The first two are under the control of the Inspector-General of Police: the latter is under the orders of the Commissioner of Police, Rangoon, an officer of the rank of Deputy Inspector-General.

There are three other Deputy Inspectors-General, one for the Eastern and Western Range and one for the Military Police.

The Civil Police Force numbered at the end of 1912, 1,343 officers and 13,361 men. strength of the Military Police on the 1st January 1913 was 15,829 officers and men. The Rangoon Town Police stand at 79 officers and 1.191 men.

A special feature of Burma is the Military Police. Its officers are deputed from the Indian Army. The rank and file are recruited from natives of India with a few Kachins, Karens and Shans. The organisation is Military, the force being divided into Battalions. The object of the force is to supplement the regular troops in Burma. Their duties, apart from their Military work, is to provide escorts for specie, pri-soners, etc., and guards for Treasuries, Jails and Courts.

Education.

At the head is the Director of Public Instruction with an Assistant Director. There are 6 Inspectors of Schools belonging to the Imperial and one belonging to the Provincial Service, and 7 Assistant Inspectors belonging to the Provincial Service. The Rangoon College is staffed by a Principal and five Professors drawn from the Imperial Service. Outside the Education Department is the Educational Syndicate whose aim is to promote education throughout the Province.

Burma has no University, but it has two Colleges, the Rangoon College and the Baptist College which are affliated to the Calcutta University. Under Government there are-

An Arts College, Law School, Reformatory School, School of Engineering, Apprentice School, High School for Europeans, High School at Taunggyi for the sons of Shan Chiefs, 5 Normal Schools, 8 Anglo-Vernacular High Schools, 18 Anglo-Vernacular Middle Schools, and 28 Vernacular Middle Schools.

A remarkable feature of education in Burma makes fixed netations ago, by the genius of the people.

8s. 49 lakhs Nearly every village has a monastery (hpoonsyikyaung); every monastery is a village school

and every Burman boy has, according to his | Maung Tun Myat, and every Surman boy has, according to his religion, to attend that school, shaving his head and for the time wearing the yellow robe. At the hpoongyi-kyaungs the boys are taught to read and write and an elementary and native system of arithmetic. The result is that there are very few boys in Burma who are not able to read and write and the literacy of Burman men is 412 per mille.

Another feature of education in Burma is the excellent work of the American Baptist Mission which has established schools in most of the important towns in Burma, as well as a College in Rangoon.

Medical.

The control of the Medical Department is vested in an Inspector-General of Civil Hos-pitals. Under him are 41 Civil Surgeons. There is also a Sanitary Commissioner, a Deputy Sanitary Commissioner, an Inspector-General of Prisons, three whole time Superintendents of Prisons, a Chemical Examiner and Bacteriologist and Superintendent of the Lunatic Asylum.

A Civil Surgeon is in charge of each District while at the Summer Head Quarters of Maymyo. there is a special Civil Surgeon.

The total number of hospitals and Dispensaries is 265 at the end of 1912-13. The Rangoon General Hospital is perhaps the finest in the East.

The total number of patients treated in 1911 was 1,567,009.

Administration.

Lieutenant-Governor, Sir Harvey Adamson, Kt., K.C.S.I., LL.D., Assumed charge, 19th May 1910.

Private Secretary, Capt. E. C. Lentaigue.

Aide-de-Camp, Lieut. N. H. Hutcheson, 1st Royal Irish Rifles.

Honorary Aides-de-Camp, Lt.-Col.H. Des. Voeux, C.I.E., I.A.; Major E. J. Foucar, v.D.

Indian Aides-de-Camp, Hony. Capt. Muzaffar Khan, Sardar Bahadur; Subadar-Major Amar Singh, Rai Bahadur.

> LEGISLATIVE COUNCIL OF THE LIEUTENANT-GOVERNOR.

> > Officials.

W. J. Keith.

Lt.-Col. E. C. Townsend. H. Thompson.

Non-Officials.

Merwanjee Cowasiee. Lim Chin Tsong. Sao Mawng, C.I.E.

Mirza Abdul Hussein, Khan Bahadur.

Maung Mye.

Maung Pe.

B. J. B. Stephens. J. E. Du Bern.

Secretary, C. M. Webb.

SECRETARIAT.

Chief Secretary, W. F. Rice, C.S.I. Revenue Secretary, W. J. Keith.

Secretary, P.W.D. and Chief Engineer, G. C. Stawell.

Joint Secretary, P.W.D., D. W. Aikman. Financial Commissioner, H. Thompson. Senior Registrar, E. A. C. Walker, 1.S.o.

Miscellaneous Appointments.

Settlement Commissioner and Director of Land Records, H. M. S. Matthews, C.S.I. Director of Agriculture, H. Clayton. Consulting Architect, H. S. Morris.

Superintendent and Political Officer, Southern Shan States, G. C. R. Stirling,

Superintendent and Political Officer, Northern Shan States, H. A. Thornton. Director of Public Instruction, J. G. Covernton.

Inspector-General of Police, Lt.-Col. H. Des

Chief Conservator of Forests, C. G. Rogers. Inspector-General of Civil Hespitals, Col. A. O.

Sanitary Commissioner, Lt.-Col. C. E. Williams. Inspector-General of Prisons, Lt.-Col. G. H. J. Bell.

Commissioner of Excise, Major W. R. Stone. Chief Customs Authority, Herbert Thompson, Accountant-General, A. Newmarch, L. E. Pritchard (Ag.)

Chief Commissioners of Burma.

	LieutColonel A. P. Phayre, C.B		••	1862
	Colonel A. Fytche, c.s.i			1867
	LieutColonel R. D. Ardagh			1870
	The Hon. Ashley Eden, C.S.I.			1871
	A. R. Thompson, c.s.i.			1875
i	C. U. Aitchison, c.s.i.			1878
	C. E. Bernard, C.S.I.			1880
	C. H. T. Crosthwaite			1883
	Sir C. E. Bernard, K.C.S.I.			1886
1	C. H. T. Crosthwaite, c.s.I.			1887
l	A. P. MacDonnell, c.s.I. (a)			1889
	Alexander Mackenzie, C.S.I.			1890
	D. M. Smeaton			1892
	Sir F. W. R. Fryer, K.C.S.I.			1895
	(a) Afterwards (by creation)	Baron	Мас	-

Lieutenant-Governors of Burma

united the state of the st	
	 1897
Sir H. S. Barnes, K.C.S.I., K.C.V.O.	 1903
	 1905
Sir Harvey Adamson Rt. R C S T . TT D	1010

Bihar and Orissa.

vinces of Bihar, Orissa and Chota Nagpur, and is bounded on the north by Nepal and the Darjeeling district of Bengal; on the east by Bengal; on the south by the Bay of Bengal and Madras; and on the west by the United Pro-vinces of Agra and Oudh and the Central Provinces.

The area of the British territories which constitute the Lieutenant-Governorship of Bihar and Orissa is 83,181 square miles inclusive of the area of large rivers. In addition to the districts which are directly under British rule, there are two groups of petty estates which lie to the south and south-west of the Province and which under the names of the Tributary States of Orissa and the Political States of Chota Nagpur are governed each by its own Chief under the superintendence and with the advice of the Commissioner of the nearest British Adminis-trative division. The area of these territories is 28,648 square miles and as it is usual to include them when speaking of Bihar and Orissa the area of the whole Province may be stated at 111,829 square miles. Two of the provinces of the Lieutenant-Governorship of Bihar and Orissa, viz., Bihar and Orissa, consist of great river valleys, the third, Chota Nagpur, is a mountainous region which separates them from the Central Indian Plateau. Orissa embraces the rich deltas of the Mahanadi and the neighbouring rivers and is bounded by the Bay of Bengal on the south-east and walled it on the north-west by Tributary Hill States. Bihar lies on the north of the Province and comprises the higher valleys of the Ganges from the spot where it issues from the territories of the Lieutenant-Governor of the United Provinces of Agra and Oudh. Between Bihar and Orissa, but stretching further westward and deep into the hill country, lies Chota Nagpur.

The People.

The temporary head-quarters of Government are at Ranchi in Chota Nagpur, while the permanent Capital at Patna is under construction. The Province has at present no hill station.

The Province has a population of 38,435,293 persons which is very little less than that of France and rather more than that of the Bombay Presidency. The province is almost entirely rural, no fewer than 966 per mille of the population living in villages. Even so with 344 persons per square mile, Bihar and Orissa is more thickly populated than Germany. There are only three towns which can be classed as cities namely, Patna, Gaya and Bhagalpur. During the last thirty years the population of Patna, the capital designate, has been steadily dimi-nishing. Hindus form an overwhelming majority of the population. Though the Muhammadans form less than one-tenth of the total population they constitute more than one-fifth of urban population of the province. Animists account for 7 per cent. These are inhabitants of the Chota Nagpur plateau and the Santal Parganas.

Bihar and Orissa lies between 19°-02' and of India." Rice is the staple crop but the spring 27°-30' N. latitude and between 82°-31' and crops, wheat, barley, oats and the like are o 88°-26 E longitude and includes the three pro- considerable importance. It is estimated that the normal area cultivated with rice in this Province is 17,200,000 acres or 63 per cent. of the cropped area of the Province. Wheat is grown on about 11 million acres, barley on 1,428,200 acres, maize or Indian-corn on 1,769,300 acres the latter being an autumn crop. Oilseeds are an important crop, the cultivation having been stimulated by the demand for them in Europe. The exports in various kinds of oilseeds amounted to 5,758,390 maunds valued at Rs. 3,58,63,482. It is estimated that 2,021,300 acres of land are annually cropped with oil-seeds in the Province. There is irrigation in Gaya, Champaran and Muzaffarpur districts in Bihar and in Balasore and Cuttack in Orissa. The Indigo industry has been steadily on the decline during the last twenty years, the total areas sown having decreased from 342,000 acres in 1896 to 109,600 acres in 1911. The principal cause of this has been the discovery of the possibilities of manufacturing synthetic or chemically prepared indigo on a commercial scale, a process chiefly carned out in Germany. All the districts of Bihar with the exception of Purneah are liable to famine. The last serious famine was in 1895-96. In any year in which monsoon currents from either the Bay of Bengal or the Arabian Sea are unduly late in their arrival or cease abruptly before the middle of September the agricultural situation is very grave. It may be said that for Bilar the most important rainfall is that known as the hatia, due towards the end of September or up to middle of October. Rain at this time not only contributes materially to an increased outturn of the rice crop, but also provides the moisture necessary for starting the spring or rabi crops.

Manufactures.

Opium was formerly, with indigo, the chief manufactured product of Behar, but in conse-quence of the recent agreement with the Chinese Government the Patna Factory has been closed. At Monghyr the Peninsular Tobacco Company have erected one of the largest cigarette fac-tories in the world and as a result tobacco is being grown much more extensively. neung grown much more extensively. There are two important iron works in the Singhbhum District, Messrs. Tata & Co.'s Iron and Steel Works at Sakchi and the Bengal Iron and Steel Company at Dhuia. Both these works possess considerable economic possibilities and are likely to have a far reaching effect on the iron and steel trade of trade in the future. By far and steel trade of India in the future. By far the most important of the mineral industries in the province is that concerned in the raising of coal. The coalfields in the Manbhum District have undergone an extraordinary development in the past twenty years. Though the limits of the district include a portion of the Raniganj instruct instruct a portion of the Rangani field, its fame as a coal-producing area is now identified practically with the Jharla field. The importance of the industry may be said to date from the opening of the railway from Barakar to Dhanbaid and Katras in 1894, and from Kusuffat to Pathordi in 1895. In 1894 the outturn of all the mines in the district was Industries.

Industries.

The principal industry is agriculture; Bihar tons the enormous increase being almost entiremore especially North Bihar, being the "Garden ju from the Jharia field. In the two succeeding

years there was a set back, but from 1898 there i was a steady rise in the outturn which first touched two million tons in 1901. In 1905 the outturn had swelled to nearly three million ton and in 1906 to nearly four millions; in 1907 over 5,800,000 tons were raised and in the following year no less than seven million tons. The Jharia field is, of course, the one which accounts for the bulk of the increase in outturn, but there has also been a very considerable expansion in the Raniganj field and many new mines have been opened out. The entrance of the Bengal-Nagpur Railway in the Jharia field in 1904, and the subsequent extension of various small loops and branches, besides in-numerable sidings from both systems, the doubling of the line from Barakar to Dhanbaid. the opening of the section of the East Indian Railway of the Grand Chord from Dhanbaid to Gomoh have all contributed to this rapid development. The tendency, however, which was manifest in 1907 and 1908 to open out new collieries has been checked. From two concerns representing half a dozen mines in 1891, the number of collieries has grown to 251 in 1911, 196 in the Jharia and 55 in the Raniganj field producing respectively, 6½ million and 450,000 tons annually, just about double the output of the Burdwan mines in the same year, and nearly seven-twelfths of the total output of British India. Giridih in Hazaribagh is also the centre of a considerable coal-mining industry, containing, as it does, mines owned and worked by the East Indian Railway Com-pany. In 1911 the output was 700,000 tons. The Bokaro-Ramgarh field in the same district is likely to be of great economic importance as soon as the area is fully opened up by the rail-way now under construction. It immediately adjoins the Jharia field across the Hazaribagh border. There is a large undeveloped coal supply, it is believed, in the Districts of Palamau and Hazaribagh.

Administration.

The Province is administered by a Lieutenant-Governor in Council. The Lieutenant-Gover-nor is appointed by the Crown and is a senior member of the Indian Civil Service. He is assisted by a Council of three members, two of whom are drawn from the Indian Civil Service while the third, in practice, is an Indian. Each member takes charge of departments and in the event of any difference of opinion regarding inter-departmental references the matter is decided in Council. In practice all important cases are submitted through the member concerned to the Lieutenant-Governor.

The unit of executive administration is the District. The District Officer is styled District District. The District of their is sycled district Magistrate and Collector, except in the Scheduled districts where he is known as the Deputy Commissioner. The ordinary district jails are placed in charge of a Superintendent, usually the Civil Surgeon while the Magistrate pays periodical visits of inspection. All District Officers are exoficito Registrars; and as exoficito Chair-exoficity Registrars. men of the District Boards, they have control over elementary education, and are charged with the execution and administration of all local public works. In a word, the District Officer is

magistracy who tries all cases, except the more important which are sent for trial at the Sessions, but except in the Scheduled districts he seldom presides in Court, and his share in this part of the administration is practically confined to the distribution of work, the hearing of petty appeals and the general superintendence of his subordinates. The latter combine revenue with their magisterial functions and as Deputy Collector exercise under his control many of the powers of a Collector. The police, by whose aid he carries on the criminal administration, have as their local superior a Superintendent, who in all matters, except those concerning the discipline and internal economy of the force, has cipine and internal economy of the force, has to carry out such instructions as he receives from the District Magistrate. The Sub-divisional Officers, who are Joint, Assistant and Deputy Magistrates in charge of divisions of districts, occupy, to a great extent, in their own jurisdictions, the position of the District Officer, parameters, the position of the district office, over whom they have only judicial and no executive control. There are 21 Districts.

Above the District Magistrates are the Divisional Commissioners. Their duties are principally those of supervision. In almost all matters they exercise a general superintendence, and especially in the Revenue Department they control the Collectors' proceedings. Commissioners are the channels of communication between the local officers and Government, sisting, collating and bringing together, in a compact form the information they receive. In revenue matters the Commissioner forms a Court of appeal and in this and other respects is subject to the orders of the Board of Revenue. With this exception he is in subordination to Government direct.

The Civil Secretariat consists of the Chief Secretary, who is in charge of the Judicial, Political, Appointment and Education Departments; the Revenue Secretary, the Financial and Municipal Secretary and their three Under Secretaries.

Finance.

The Province of Bihar and Orissa was formed with five divisions, detached from the old province of Bengal with effect from the 1st April 1912. The old arrangements made with the Government of Bengal regarding the financial administration of the Province therefore ceased to apply from that date. A fresh arrangement has, however, been made, with the approval of the Secretary of State. As the method adopted was in some measure tentative and provisional. a temporary settlement for a period of three years only has been effected. It is expected that after the expiry of this period, it will be possible to gauge the needs of the province more accurately, so as to make a permanent arrange-ment possible. Under the terms of this settlement the whole of the receipts under the heads of Provincial Rates, Forest, Registration, Courts of Law, Jails, Police, Ports and Pilotage, Education, Medical have been made over entirely to the local Government together with their corresponding charges. In addition to these, it receives three-fourths of the receipts from stamps, assessed taxes, major and minor irrigation works, the whole of the Land Revenue the executive chief and administrator of the trigation works, the whole of the Land Revenue tract of country committed to him. As Discillected from Government Estates, one-half of trict Magistrate he is also local head of the the receipts under all other sub-heads excepting

recoveries from zamindars and raivats on account of survey and settlement in Bihar and other similar special surveys and the whole of the receipts under Scientific and other Minor Departments.

The only expanding items of revenue are Excise and Stamps. The Provincial Budget for 1914-15 shows an opening balance of Rs. 1,88,25,000, Receipts Rs. 2,97,13,000, Rs. 1,88,25,000, Receipts Rs. 2,9 kxpenditure Rs. 3,67,75 and the balance Rs. 4,17,63,000. closing

Public Works.

The Public Works Department in the Pro-The Fudic works Department in the Pro-vince of Bihar and Orissa, consists of two bran-ches, viz:—(1)Roads and Buildings, which also deals with Railways and Miscellaneous Public Improvements and (2) Irrigation and Marine. Each branch has a Chief Engineer, who is also Secretary to the Local Government with an Engineer Officer as Under Secretary under him. There is also a non-professional Assistant Secretary, a Consulting Architect and a Sanitary Engineer, who works under the Sanitary Board. The electrical work of the Province is carried out by an Electrical Inspector and a staff of subordi-

The Roads and Buildings branch consists of two Circles under the superintendence of two Superintending Engineers who control the Public Works Divisions held by the Executive Engineers for the execution of Imperial and Provincial works. The Superintending Engincers are also the Inspectors of Works under the Local Self-Government Act, in respect of all local works of the District Boards and, in this capacity, are the professional advisers of the Chairman and of the Divisional Commissioners who control the operation of such Boards. They also supervise all works carried out by District

The Irrigation branch is composed of three Circles, each of which is held by a Superintending Engineer. In the Irrigation Circles, the Executive Engineers carry out the works of the Roads and Buildings Branch, within the limits of their divisions, in addition to their irrigation duties. The Superintending Engineers of Irrigation Circles also act as Inspectors of Works in regard to local works in the districts in their Circles. In the Sone and Orissa Circles there are two Revenue Divisions under Deputy Collectors who deal with the assessment and collection of water-rates on the Orissa and Sone Canals under the control of the Superintending Engineers.

Justice.

The administration of justice is at present entrusted to the High Court sitting in Calcutta, but shortly jurisdiction will be transferred to a High Court at Pataa, the building for which is now in cause of erection. In the administration of civil justice below the High Court are the District Judges as Courts of Appeal, the Subordinate Judges and the Mun-sifs. The jurisdiction of a District Judge or Subordinate Judge extends to all original suits cognizable by the Civil Courts. It does not, however, include the powers of a Small Cause Court, unless these be specially conferred. The ordinary jurisdiction of a Munsif extends to all suits in which the amount or value of the subject matter in dispute does not exceed Rs. 1,000

though the limit may be extended to Rs. 2,000. On the criminal side the Sessions Judge hears On the criminal side the Sessions Judge nears appeals from Magistrates exercising first class powers while the District Magistrate is the appellate authority for Magistrates exercising second and third class powers. The District Magistrate can also be, though in point of fact he very rarely is, a court of first instance. It is usual in most districts for a Joint Magistrate or a Deputy Magistrate to receive complaints and police reports, cases of difficulty or importance being referred to the District Magistrate who is responsible for the peace of the district. In the non-regulation districts the Deputy Commissioner and his subordinates exercise civil powers and hear rent suits.

Local Self-Government.

Bengal Act III of 1884, which regulates the constitution, powers and proceedings of Muni-cipal bodies in this Province has been amended by the Bengal Acts IV of 1894 and II of 1896. By these enactments the elective franchise has been further extended, and now provides for the establishment and maintenance of veterinary institutions and the training of the requisite staff, the improvement of breeds of cattle, the training and employment of female medical practitioners, the promotion of physical culture, and the establishment and maintenance of free libraries. The Commissioners may order a survey and organise a fire brigade, they may control the water-supply when its purity is suspected, even to the extent of interference with private rights, larger powers of precaution are conferred in the case of ruined and dangerous houses and other erections, as well as increased optional powers for the general regulation of new buildings.

The total number of Municipalities at present in existence is 55, of which 6 were established during the last decade. The ratepayers of 48 Municipalities have been granted the privilege of electing two-thirds of the number of Commissioners fixed in each case, whilst in 24 cases the Commissioners are authorised to elect their own Chairman. In the remaining towns Government has reserved to itself the power of appointing the Commissioners or Chairman, as the case may be, owing either to the backwardness of the place or to the necessity for holding the balance against contending interests or strong party feeling. It is only in 7 towns, however, that Government exercises complete control in the appointment of both Commissioners and Chairmen.

Apart from Municipalities; each district with the exception of Santal Parganas and Singh-bhum has District and Local Boards. Municipal areas are excluded in accordance with the provisions of section 1. Local Boards have been formed in all districts where there are sub-divisions, except in Champaran and Ranchi. There are at present 18 District Boards, 40 Local Boards, and 5 Union Committees in the Province.

In accordance with the provisions of section 7 of the Act, a District Board is to consist of not less than 9 members. Local Boards are entitled to elect such proportion (as a rule one-half) of the whole of the District Board as the Lieutenant-Governor may direct. In districts where there are no Local Boards, the whole of the members are appointed by Government.

Chairman of the District Board is appointed by Government; he is usually the Magistrate of the district.

Land Tenures.

Estates in the Province of Bihar and Orissa are of three kinds. Permanently settled from 1793 to be found in the Patna, Tirhut and Bhagalpur divisions; Temporarily settled as in Chota Nagpur and parts of Orissa; and estates held direct by Government whether as proprietor or managed in the Court of Wards. The passing of the Bengal Tenancy Act (VIII of 1885) safeguarded the rights of the cultivators under the Permanent Settlement Act. Further, the Settlement Department under the supervision of the Director of Land Records takes periodical survey and settlement operations in the various districts both permanently and temporarily settled. In the former, the rights of the under tenants are accorded and attested, while in the latter there is the re-settlement of rents. In the re-settlement proceedings, rents are fixed not only of landlords but also for all the tenants. A settlement can be ordered by Government on application made by raiyats.

The tenures of Orissa are somewhat different. Under the zamindars, that is, the proprietors who took settlement from Government and pay revenue to Government direct, is a class of sub-ordinate proprietors of proprietary tenure holders, who were originally village headmen, dealing more or less direct with the revenue authorities. They have a variety of names, such as mukadam, padhan, maurusi, sarbarakar, pursethi, khariddar and shikmi zamindar. These sub-proprietors or proprietary tenure holders pay their revenue through the zamin-dars of the estates within which their lands lie. In Chota Nagpur, Orissa and the Santal Par-ganas, the rights of village headman have been recognised. The headman collects the rents and is responsible for them minus a deduction as remuneration for his trouble. revenue to Government direct, is a class of subas remuneration for his trouble.

Police.

The Departments of Police, Prisons and Registration are each supervised and inspected by an Inspector General with a suitable staff of assistants under the general direction of Government. The Commissioner of Excise and Salt is also Inspector General of Registration.

Under the Inspector General of Police are three Deputy Inspectors General and 25 Super-intendents. There are also 25 Assistant Superintendents of Police and 14 Deputy Superintendents. The force is divided into the District Police, the Railway Police and the Military Police. A Criminal Investigation Department has also been formed for the collection and distribution of information relating to profes-sional criminals and criminal tribes whose operations extend beyond a single district and to control, advise, and assist in investiga-tions of crime of this class and other serious cases in which its assistance may be invoked. There are two companies of Military Police which are maintained as reserves to deal with serious and organised disturbances and perform Serious and optimary civil duties. The work of the special institutions are 36 Industrial and Artisan Railway. Police is practically confined to Schools, two Commercial Schools and 14 Madoffences actually committed on the railways, but rassas, where instruction is given in Arabic and they are under the control of the Deputy Ins- Persian. The expenditure on public education

Department, and an important part of their duties is to co-operate with the District Police in watching the movements of bad characters by rail. The prevention and detection of crime in the Province generally is entrusted to the District Police. In that work they are assisted by the rural police, known as chaukidars and dafadars, who form no part of the regular force, but are under a statutory obligation to report all cognizable crime at the police station, and generally to assist in the prevention and detecgenerally to assist in the prevention and detection of crime. They are not whole-time servants of Government, but they are paid a small monthly salary which is realized from the villagers by the panchayat. The cost of the police is Rs. 46,48,000.

Education.

The Department of Public Instruction is controlled by a Director. There are four Divisional Inspectors of Schools, one of whom inspects European schools in addition to his own duties. 2 Additional Inspectors, 3 Assistant Inspectors, including the Agency Inspector in Orissa, 4 special officers for Muhammadan Education, 24 Deputy Inspectors (exclusive of one in Native States), 182 Sub-Inspectors (exclusive of five paid by Native States), 46 Assistant Sub-Inspectors (exclusive of one paid by a Native State) and 259 Guru Instructors (exclusive of nine paid by Native States).

The main divisions of Educational institutions are Primary, Secondary, Collegiate and Training.

The main object of Primary Schools is to provide the masses with sufficient knowledge of reading, writing, and arithmetic, to secure them in their dealings with the money lender and zamindar or zamindar's underlings. Primary Schools for Indian boys are of two classes. Upper and Lower.

It is probable that there will eventually be a new University situated at Patns. The important Secondary Schools are the district or ZillaSchools to be found at the head-quarters of each district. The Higher English Schools which include private institutions as well as Government aided schools at sub-divisional head-quarters and Middle English and Middle Vernacular Schools which are under the control of District Boards. The District and Local Boards are also responsible for Primary Education with the assistance of the expert advisers of the Education Department. There are at present seven colleges in the province—two at Patna, one at Bhagalpur, one at Cuttack, one at Hazaribagh, (managed by the Dublin Mission), one at Muzaffarpur and a small College at Monghyr. The number of High Schools for Indian pupils under Public management is 21 with 6,200 pupils, while 44 with 9,350 pupils are aided by public funds. There are 23,231 Primary Schools with an attendance of 645,252 pupils. Of these, 16,802 are maintained or aided by public funds. The village schoolmaster or guru is now receiving special training. There are 130 Guru Training Schools for masters and 8 Training Schools for Mistresses. Other special institutions are 36 Industrial and Artisan pector General of the Criminal Investigation from public funds amounts to Rs. 48,98,000.

Medical.

The Medical Department is under the control of the Inspector-General of Civil Hospitals who is a Member of the Indian Medical Service. Under him there are 20 Civil Surgeons who are responsible for the medical work of the districts at the head-quarters of which they are stationed. 47 Dispensaries are maintained by Government-

, orman				
State Public				15
State Special P	olice			23
State Canal		••		4
State Others		••		5
		Total	-	477

Besides these there are 281 Dispensaries maintained by Local bodies, Railways, private persons, etc. 29,76,709 patients including 44,550 in-patients were treated in 1912. There is one Lunatic Asylum and 7 institutions for the treatment of lepers.

The Sanitation Department is in charge of the Sanitary Commissioner who is directly subordi-pate to Government as its expert adviser in regard to sanitation. There are three Deputy Sanitary Commissioners who work under the control of the Sanitary Commissioner. Vacci-nation is carried out by a staff under the direction of the Sanitary Commissioner. There is also a qualified Sanitary Engineer.

Administration,

Lieutenant-Governor, Sir Charles Stuart Bayley, K.C.S.I., I.S.O., Assumed charge of office, 1st April, 1912.

PERSONAL STAFF.

Private Secretary, C. B. Bayley, c.v.o. Aide-de-Camp, Capt. H. F. Collingridge. Extra Indian Aide-de-Camp, Hon. Capt. Sardar Bahadur Hira Singh. Honorary Aides-de-Camp, Lieut.-Col. V. N.

Hickley, V.D., Major A. T. Peppe.

EXECUTIVE COUNCIL.

E. A. Gait, C.S.I., C.I.E. Took his seat, 1st August, 1912.

E. V. Levinge, C.S.I. Took his seat, 1st August 1912.

Maharaja Bahadur Sir Rameswar Singh, K.C.I.E., of Darbhanga. Took his seat, 1st August 1912.

LEGISLATIVE COUNCIL.

President. The Lieutenant-Governor. Vice-President, E. A. Gait, C.S.I., C.I.E.

Ex-Officio.

The Members of the Executive Council.

NOMINATED.

Officials.

C. E. A. W. Oldham. H. LeMesurier, C.S.I., C.I.E.

J. G. Jennings. L. C. Adami. F. N. Fischer.

E. R. Gardiner.

H. McPherson. C. A. White.

Ahsan-ud-din Ahmad, 1.8.0.

E. L. Hammond. R. T. Dundas.

L. F. Morshead. J. R. F. Lowis.

Keshari Prasad Singh.

Non-Officials.

Maharaja Bahadur Sir Ravaneswar Prasad Singh, K.C.I.E. Rai Bahadur Nishi Kanta Sen. Madhu Sudan Das, c.i.r. Rev. A. Campbell, D.D.

ELECTED.

Kumar Girija Nandan Singh. Kirtyanand Singh. Raja Rajendra N. Banj Deo. Kumar Thakurai G. Prasad Singh. W. A. Lee. T. R. Filgate, C.I.E. Saiyid Fakhr-ud-din, Khan Bahadur. Mahbub Hasan Khan, Khan Bahadur. Saiyid Muhammad Tahir. Khwaja Muhammad Nur. Bishun Prasad. Dwarka Nath. Sheo Shankar Sahai, C.I.E. Gokulanand Chanduri. Sharat Chandra Sen. Krishna Sahai. Braia Kishor Prasad. Kumar Sheonandan Prasad Singh. Sudam Charan Naik. Gopi Krishna.

SECRETARIAT.

Chief Secretary to Government, Political, Ap-pointment, and Educational Department, H. LeMesurier, C.S.I., C.I.E.

Secretary to Government, Financial and Municipal Departments, E. L. Hammond.

Secretary to Government, Revenue Department, H. McPherson.

Secretaries to Government (P. W. D.), Irrigation Branch, C. A. White. Buildings and Roads Branch, E. R. Gardiner.

BOARD OF REVENUE.

Member, W. Maude. Secretary, J. A. Hubback.

MISCELLANEOUS APPOINTMENTS.

Director of Public Instruction, H. Sharp. Inspector-General of Police, L. F. Morshead. Conservator of Forests, H. Carter. Inspector-General of Civil Hospitals, Lt.-Col.

F. J. Drury.

Sanitary Commissioner, Lt.-Col. E. C. Hare, I.M.S.

Inspector-General of Prisons, Lt.-Col. Bawa Jivan Singh.

Accountant-General, V. C. Scott O'Connor. Director of Agriculture, W. B. Heycock.

Registrar of Co-Operative Credit Societies, B. A. Collins.

The Central Provinces and Berar.

a great triangle of country midway between Bombay and Bengal. Their area is 130,991 Bombay and Bengat. Their area is 150,991 miles, of which 82,000 are British territory proper and the remainder held by Feudatory Chiefs. The population (1011) is 13,916,308 under British administration and 2,117,002 in the Feudatory States. Various parts of the Central Provinces passed under British control at different times in the wars and tumult in the first half of the 19th century and the several parts were amalgamated after the Mutiny, in 1861, into the Chief Commissionership of the Central Provinces. Berar was, in 1853, of a financial arrangement with the Nizam and was transferred to the Central Provinces in 1903, as the result of a fresh agreement with the Nizam.

The Country.

The Central Provinces may roughly be divided into three tracts of upland, with two intervening ones of plain country. In the northwest, the Vindhyan plateau is broken country, covered with poor and stunted forest. Below its precipitous southern slopes stretches the rich wheat growing country of the Narbada valley. Then comes the high Satpura plateau, characterised by forest-covered hills and deep water-cut ravines. Its hills decline into the Nagpur plain, whose broad stretches of shallow black cotton soil make it one of the more important cotton tracts of India and the weal-thiest part of the C. P. The Eastern half of the plain lies in the valley of the Wainganga and is mainly a rice growing country. Its numerous irrication tanks have given it the name of the "lake country" of Nagpur. Fur-ther east is the far-reaching rice country of Chattisgarh, in the Mahanadi basin. The southeast of the C. P. is again mountainous, containing 24,000 square miles of forest and precipiing 24,000 square times of forces and precipi-tous ravines, and mostly inhabited by jungle tribes. The Feudatory States of Bastar and Kankar lie in this region. Berar lies to the south-west of the C. P. and its chief characteristic is its rich black cotton-soil plains.

The People.

The population of the province is a comparatively new community. Before the advent of the Aryans, the whole of it was peopled by the Gonds and these aboriginal inhabitants fared better from the Aryans than their like in most parts of India because of the rugged nature of their howe. But wrongestire was the community of their howe. nature of their home. But successive waves of immigration flowed into the province from all sides. The early inhabitants were driven into the inaccessible forests and hills, where they now instituted a large portion of the tribes in those parts, who form a quarter of the whole population of the C. P. The Gonds are still found in large numbers in all parts of the pro-vince, but they are partially concentrated in the south-east. The main divisions of the new comers are indicated by the language di-

The Central Provinces and Berar compose 31 per cent. and in Berar, and Gondi by 7 per great triangle of country midway between cent. The effects of invasion are curiously ombay and Bengal. Their race is 130,991 illustrated in Berar, where numbers of Moslems have Hindu names, being descendants of for-mer Hindu officials who on the Mahomedan invasion adopted Islam rather than lose their positions. The recent census shows that a gradual Brahmanising of the aboriginal tribes is going on. The tribes are not regarded as impure by the Hindus and the process of absorption is more or less civilising.

Industries.

When Sir Richard Temple became first Chief When Sir Richard Temple became historine Commissioner of the C. P. the province was land-locked. The only road was that leading in from Jubbulpore to Nagpur. The British administration has made roads in all directions, the two trunk railways between Bombay and Calcutta run across the province and in the last few years a great impetus has been given to the construction of subsidiary lines. These developments have caused a steady growth of trade and have aroused vigorous progress in every department of life. The prime industry is, of course, agriculture, which is assisted by one of the most admirable agricul-tural departments in India and is now receiving additional strength by a phenomenal growth of the co-operative credit movement. The land tenure is chiefly on the zemindari, or great land-lord, system, ranging, with numerous variations, from the great Fendatory which is the shading with the control of the strength chiefships, which are on this basis, to holdings of small dimensions. A system of land legislaof small dimensions. A system of land legislation has gradually been built up to protect the individual cultivator. Berar is settled on the Bombay ryotwari system. Thirty-eight per cent. or about 44,000 square miles of the C. P. is forest: in Berar the forest area is 3,941 square miles, The rugged nature of the greater part of the country makes forest conservation difficult and costly. Excluding forest and wastes, 57 per cent. of the total land is occupied for cultivation; in the most advanced districts the proportion is 80 most advanced districts the proportion is 80 per cent.; and in Berar the figure is also high The cultivated area is extending continuously except for the temporary checks caused by bad seasons. Rice is the most important crop of the C. P., covering a quarter of the cropped area. Wheat comes next, with 15½ per cent., then pulses and cereals used for food and oil seeds, with 11 per cent, and cotton with 7 per cent. In Berar cotton occupies nearly 40 per cent. of the cropped area, jowar covers an equal extent, then wheat and oil seeds. In agriculture more than balf the working population is female.

Commerce and Manufactures.

Industrial life is only in its earliest development except in one or two centres, where the introduction of modern enterprise along the railway routes has laid the foundations for great future developments of the natural wealth of new comers are indicated by the language divisions of the province. Nagpur is the chief centre of visions of the province. Hindi, brought in a busy cotton spinning industry. The Embyrthe Hindustani-speaking peoples of the North, prevails in the North and East; Marathi in press Mills, owned by Parsi manufacturers; prevails in the North and centre of the C. P. sperity of the octon trade has led to the additind in spoken by 56 per cent. of the population of man mills here and in other parts of tion and is the lingua tranca. Marathi by the province. The total output of spun yarn as follows :-

1910-11 28,314,423 37,738,443 33,581,772 yards. 1911-12 1912-13 ٠. .,

The output of woven goods in the same years was :-

1910-11 42,538,830 yards. 1911-12 46,370,335 ٠. . 1912-13 48,653,903

The largest numbers engaged in any of the modern industrial concerns are employed in modern industrial concerns are employed in manganese mining. There were in 1912-13, the last year for which returns are available, 28 mines, their output of manganese was 323,000 tons, value Rs. 14,72,000, and 6,196 people were employed in them. Coal mining in the same period gave employment to 2,530 persons and the coal output was 234,000, of the value of Rs. 9,61,000. Jubbulpore is the scene of the famous marble quarries and allied works. The output of limestone in the same year was about 90,000 tons. The number of persons employed in the limestone quarries and in the mines for pottery clay, soapstone, &c.. being 2,807.

The total number of factories of all kinds legally so described was according to the latest returns, 479 and the number employed in them 47,269. The same economic influences which are operative in every progressive country during its transition stage are at work in the C. P. and Berar, gradually sapping the strength of the old village industries, as communications improve, and concentrating industries in the towns. While the village industries are fading away. a large development of trade has taken place. The last available reports show an increase in volume by one-third in eight years.

Administration.

The administration of the Central Provinces and Berar is conducted by a Chief Commissioner, who is the controlling revenue and executive authority and is appointed by the Governor-General-in-Council. He is assisted by three secretaries, two under-secretaries and an assistant secretary. Simultaneously with the jubilee of the foundation of the Province in 1913 a Legislative Council was constituted. It consists of 24 members, excluding the Chief Commissioner, 7 being elected by munici-palities, District Councils and Landholders in the C. P. and 17 nominated by the Chief Commissioner, of whom not more than 10 may be officials and 3 shall be non-officials chosen respectively by the municipalities, District Boards and Landholders of Berar. The Chief Commissioner may nominate an additional member, official or non-official, who has subject on which The C. P. are ive purposes into special knowledge of a subject on legislation is pending. The divided for administrative four divisions, and Berar constitutes another division. Each of these is controlled by a Com-missioner. Berar is divided into six districts, three other divisions into three districts each and one into three, and these are controlled by Deputy-Commissioners, immediately subordinate to the Commissioners. The principal heads of Provincial departments are the Commissioner of Settlements and Land Records, the Inspector- District Councils is similar. The officers General of Civil Hospitals and Sanitary Cominissioners, the Inspector-General of Police of the District Councils are frequently non-policity of the Inspector-General of Prisons, the Director that the Tabsildar and Naib Tabsildar

in the past few years (April-March) has been of Public Instruction, the Commissioner of Excise and Miscellaneous Revenue, and the Director of Agriculture and Industries. The Deputy-Commissioners of districts are chief revenue authorities and District Magistrates, and they exercise the usual powers and functions of a district officer. The district forests are managed by a forest officer, usually a member of the Imperial Forest Service, over whom the Deputy-Commissioner has certain powers of supervision, particularly in matters affecting the welfare of the people. Each district has a Civil Surgeon, who is generally also Superintendent of the District Jail and whose work is also in various respects supervised by the Deputy-Commissioner. The Deputy-Commissioner is also marriage registrar and manages the estates of his district which are under the Court of Wards. In his revenue and criminal work the Deputy-Commissioner is assisted by (a) one or more Assistant Commissioners, or members of the Indian Civil Service; (b) one or more Extra-Assistant Commissioners, or members of the Provincial Civil Service, usually natives of India, but including a few Europeans and Eurasians; and (c) by tahsildars and naib-tahsildars, or members of the Subordinate service, who are nearly always natives of India. The district is divided for administrative purposes into tabsils, the average area of which is 1,500 square miles. In each village a lambardar, or representative of the proprietory body, is executive headman.

Justice. The Judicial Commissioner is the highest court of civil appeal, and except in cases against European British subjects, in which the High Court of Bombay has jurisdiction, is the high-est court of criminal appeal. He is assisted by an Additional Judicial Commissioner for the Central Provinces and another for Berar. The administration of criminal fustice was formerly entirely in the hands of Commissioners and the District staff, but Commissioners have now no criminal powers as such and their place as Sessions Judges has been taken by Divisional Judges. By the Civil Courts Act of 1904, the civil has finally been separated from the executive department. The civil staff consists of Divisional Judges, District Judges, Subordinate Judges and Munsiffs.

Local Government.

Municipal administration was first introduced under the Punjab Municipal Acts and the Municipality of Nagpur dates from 1864. Several revising Acts extend, its scope. Viewed gen-erally, municipal self-government is considered to have taken root successfully. The general basis of the scheme is the Local Board for each tashsi and the District Council for each district. In Berar these bodies are called Taluk Boards and District Boards. The larger towns have municipalities. A certain proportion of the Local Board members on village headmen elected by their own class. are village headmen, elected by their own class, others are elected representatives of the mercantile and trading classes and a third proportion, not exceeding 1 of the whole, are nominated by Government. The constitution of the District Councils is similar. The officers

stance a charge upon the District Council funds.

Finance.

The main sources of Government income in the province has always been the land revenue, but under Mahratta rule many petty imposts were added in all branches of trade and industry and life in general. Thus there was a special tax on the marriage of Banias and a tax of a fourth of the proceeds of the sale of houses. The scheme of Provincial finance was introduced in 1871-72. Special settlements under this system have been necessitated in view of the special circumstances of the province and the recurrence of famine, which a few years ago caused a severe economic strain upon the province. The wave of prosperity which has spread over the country in the past 12 years, since the end of the previous period, has more than trebled the funds available for the administration, compared with what they were before the several years of scarcity, and the progress of the administration and of expenditure has increased correspondingly, without any increase of taxation under provincial heads.

Public Works,
The Public Works Department is controlled by a Chief Engineer, who is also Secretary to the Chief Commissioner. There are two Superintending Engineers for roads and buildings and a third in charge of irrigation. In 1892 a se-parate division of the Public Works Department was formed for the construction of roads and buildings in the Feudatory States. The expansion of the department and its work has been one of the most remarkable features of the administration in the past decade and a half, largely owing to the demands of a progreshalf, largely owing to the demands of a progressive age in regard to communications and new buildings. The Irrigation Branch of the P. W. D. represents a completely new departure. It was formerly the accepted view that the irregular surface of the country would make irrigation canals impossible and that the S. W. monsoon was so regular that it would pay better to relieve famine than to prevent it. Both conclusions have been reversed. Picked officers investigated projects for irrigation when the Irrigation Commission was abnointed when the Irrigation Commission was appointed (1901) and canal and storage works have since been advanced with vigour. The Tandula, Wainganga and Mahanadi canal projects are amongst the more important schemes.

Police.

The police force was constituted in its present basis on the formation of the province, the whole of which, including the Municipalitics, is under one force. The strength is equal to one man per 9 square miles of area. The superior officers comprise an Inspector-General, whose jurisdiction extends over Berar, Deputy Inspectors-General, in charge of the Eastern and Western range and of the Criminal Investigation Department, and the usual cadre of District Superintendents, Assistant and Deputy Superintendents, and subordinate officers.

should be Chairman and Secretary of the Local Boards. The District Councils have no power of taxation and Local Boards derive their funds in allotments from the District Councils. Rural education and sanitation are among the primary objects to which these bodies direct their attention and expenditure on famine relief is in the first intended to the stance a charge upon the District Council funds. no village police as the term is understood in some other parts of India. The village watch-man is the subordinate of the village headman and not a police official and it is considered very desirable to maintain his position in this respect.

Education.

The educational department was constituted in 1862 and the scheme then drawn up has remained the basis of the system of public education to the present day. The leading principles are that the department should content itself with the direct management of colleges and higher secondary schools, the training of teachers and inspection in work in rural areas. The maintenance of rural schools should as far as possible be left to the local authorities, every encouragement should be given to private philanthropy and no Govern-ment schools should be founded where there existed a sufficient number of institutions capable, with the assistance of the State, of sup-plying the local demand for instruction. At the head of the Department is the Director of Public Instruction, who has a staff of Inspectors and an Inspectress for girls' schools. The Educational Service includes these appoint-ments, except the last. An Agency Inspector supervises the schools of the Feudatory States. The province has three colleges: a Government College at Jubbulpore, and the Morris and Hislop Colleges at Nagpur. The Agricultural Department maintain an Agricultural College at Nagpur. The Colleges are affiliated to Al-

lahahad University, but a demand has arisen for a local University.

Until recently, the demand for education, primary or secondary, was satisfied by a few institutions in the larger towns, while in the whole of the rural districts primary education had to be recently as the same of the same o had to be pressed on an apathetic and even obstructive agricultural population. The new spirit of progress in recent years has quickened the public pulse and the efforts of Government to effect improved facilities have responded ac-cordingly. Special grants from the Govern-ment of India budget surpluses have in the past year or two largely been devoted to assisting the District Councils to overtake their arrears of primary school building. District Councils in general have allowed their zeal for education to carry them into programmes of development beyond their means, The official figures for the last year for which the education report of the provinces has been issued shows an increase of 257 in the number of schools and of 20,982 scholars during the year, the percentage of scholars to population having thus incressed from 13-85 to 14-85. The number of institutions for the education of Indian girls in British territory increased in the same year from 319 to 329 and their pupils from 17,079 to 17,653.

Inspector-General of Civil Hospitals and a Sanitary Commissioner, the latter being assisted by a Sanitary Engineer. The medical department has progressed along comparatively stereotyped lines. A striking advance has been made in recent years with urban sanita-tion. The principal medical institutions are the Mayo Memorial Hospital at Nagpur, opened in 1874, with accommodation for 80 in-patients; the Victoria Hospital at Jubbulpore, opened in 1886 and accommodating 64 in-patients; the Lady Dufferin Hospitals at Nagpur and Raipur and the Lady Elgin Hospital at Jubbulpore, these last three being for women and containing together accommodation for 64 in-The province has two lunatic asylums, at Nagpur and Jubbulpore respectively. Vaccination is compulsory in some Municipal towns to which the Vaccination Act has been extended.

Administration.

Chief Commissioner, Sir B. Robertson, K.C.S.L., Q.I.E., apptd. 3rd Aug. 1912. Personal Assistant, Capt. F. B. Lanc, Chief Secretary, Sir A. Blennerhassett. Registrar, R. W. Johnson. Secretary, Public Works Department, R. H.

Tickell. Financial Commissioner, H. A. Crump. Commissioner of Settlements and Director of Land

Records, H. E. Hemingway, I. C. S. BERAR.

Commissioner, F. G. Sly, C.S.I.

LEGISLATIVE COUNCIL.
The inaugural meeting of the new Legislative Council took place at the Secretariat, Nagpur, on August 17th. All the official and non-official members were present and the visitors gallery was full. The following are Hon. Members of the Council :-

NOMINATED OFFICIALS. Financial Commissioner, Mr. H. A. Crump, C.S.I., I.C.S. Commissioner in Berar, Mr. P. Standen, C.I.E.,

Chief Secretary, Sir A. Blennerhasset, Bart., I.C.S. Second Secretary, Mr. J. T. Marten, I.C.S. Third Secretary, Mr. C. G. Leftwich, I.C.S. Secretary in the Legal Department, Mr. C. S.

Findlay, I.C.S. Chief Engineer, Mr. R. H. Tickell, C.I.E.

Inspector-General of Civil Hospitals, Dennys, I.M.S.
Inspector-General of Police, R. C. H. M. King,

I.c.s. Director of Public Instruction, Mr. A. I. Mayhew. Commissioner of Excise, Mr. A. Mayne, I c.s.., (nominated for so long as the C.P. Excise

Bill is before the Council.

NOMINATED NON-OFFICIALS.

The Chief of Sarangarh State, Nawab Salimulla Khan of Berar, Sir Bipin Krishna Bose of Nagpur and Sir Kastur Chand Daga of Kamptee.

ELECTED. Elected by C. P. Municipalities:—Mr. Moreshwar Rao Dixit, Nagpur; Sheo Prasad, Jubbulpore; Rai Saheb Shet Nathmal, Raipur: Elected by C. P. District Councils:—Rai Saheb Mathura Prasad, Chindwara; Rao Bahadun Narayan Rao Kalker Ralaghat.

dur Narayan Rao Kelkar, Balaghat.

Elected by the Central Provinces Landholders :- | Sir B. Robertson, R.C.S. I., C. I.E...

Raja Bahadur Raghojirao Bhonsle, Nagpur; Rai Bahadur Bishan Dutt Shukul, Sheora.

BERAR: NON-OFFICIAL Nominated after election by Public bodies:— Rao Bahadur R. N. Mudholkar, C.I-E., (Berar Municipal Committees): Rao Bahadur K. G. Damle (Berar District Boards); Mr. Moropant V. Joshi (Berar Landholders).

The Legislative Council, on its constitution, took the place of the Municipalities in the elec-tion of aMember of the Imperial Legislature.

MISCELLANEOUS APPOINTMENTS. Director of Public Instruction, A. I. Mayhew, B.A. Inspector-General of Police, R. M. King, I. C. S. Chief Conservator of Forests, P. H. Clutterbuck. Inspector-General of Civil Hospitals, Col. G. W. P. Dennys, I.M.S.

Sanitary Commissioner, Major T G. N. Stokes, I.M.S.

Commissioner of Excise, etc., A. Mayne, I. C. S. Comptroller (Financial Dept.), F. D. Gorden.

Postmaster-General, H. A. Sams. Director of Agriculture and Industries, C. E. Low, C.I.E.

Registrar of Co-operative Credit Societies, H. R.

Crosthwaite. CHIEF COMMISSIONERS. Colonel E. K. Elliot 1861 Lieut.-Colonel J. K. Spence (Officiating) . 1862 R. Temple (Officiating) Colonel E. K. Elliot 1862 .. 1863 J. S. Campbell (Officiating) 1864 R. Temple 1864 J. S. Campbell (Officiating) R. Temple 1865 1865 . . J. H. Morris (Officiating) ... 1867 ٠. G. Campbell 1867 ٠. J. H. Morris (Officiating) 1868 . . Confirmed 27th May 1870. Colonel R. H. Keatinge, C.S.I. (Offg.) 1870 J. H. Morris, c.s.i. 1872 ٠. C. Grant (Officiating) 1879 • • ٠. J. H. Morris, C.S.I.
W. B. Jones, C.S.I.
C. H. T. Crosthwaite (Officiating) 1879 . . 1883 1884 Confirmed 27th January 1885. D. Fitzpatrick (Officiating) J. W. Neill (Officiating) 1885 1887 ٠. . . A. Mackenzie, C.S.I. 1887 . . R. J. Crosthwaite (Officiating) Until 7th October 1889. 1889 J. W Neill (Officiating) A. P. MacDonnell, c.s.I. 1890 1891 J. Woodburn, c.s.i. (Officiating) ... Confirmed 30th November 1893. 1893 C. J. Lyall, C.S.I., C.I.E. D. C. J. Ibbetson, C.S.I. A. H. L. Fraser, C.S.I. 1895 1898 (Officiating) 1899 Confirmed 5th March 1902. J. P. Hewett, C.S.I., C.I.E. (Officiating) Confirmed 2nd November 1903. 1902 F. S. P. Lely, C.S.I. (Officiating) . . Confirmed 23rd December 1904. 1904 1905 1906 1907 F. A. T. Phillip (Officiating) Until 25th March 1907. Also from 20th 1909 May to 22nd November .. 1907 1912 1912 tem).

1912

North-West Frontier Province.

name denotes, is situated on the north-west frontier of the Indian Empire. It is in form an irregular strip of country lying north by described as the tract of country, north of Baluchistan, lying between the Indus and the Durand boundary line with Afghanistan. To the north it extends to the mountains of the Hindu Kush. From this range a long broken line of mountains runs almost due south, dividing the province from Afghanistan, until the Sulaiman Range eventually closes the south of the Province from Baluchistan. The greatest length of the province is 408 miles, its greatest breadth 279 miles and its total area about 39,000 square miles. The territory falls into three main geographical divisions of the control of t sions: the Cis-Indus district of Hazara; the narrow strip between the Indus and the Hills, containing the Districts of Peshawar, Kohat. Banu and Dera Ismail Khan, and the rugged mountainous regions on the north and west between those districts and the border line of Afghanistan. Hazara and the four districts in the second division contain 13,418 square miles. The mountain regions, north and west, are occupied by tribes subject only to the political control of the Chief Commissioner in his capacity as Agent to the Governor-General. The area of this tract is roughly 25,500 square miles and in it are situated, from north to south, the political agencies severally known as the Malakand, Khyber, Kurram, Tochi and Wana Agencies. Each of the Deputy Com-missioners of the five administered districts is responsible for the management of political relations with certain tribes or sections of the tribes across the frontier. A few hundred tribes across the trontier. A new number miles of the trans-border Territory are internally administered by the Political Agents, but the bulk of the trans-border population but the outs of the trans-border population is free from any internal interference, so long as offences are not committed and so long as the tribes observe the conditions on which allowances are paid to many of them.

The area of the Province is a little more than

half that of Bombay (excluding Sind and Aden) and amounts to more than three-fifths of the size of England without Wales. The density of population throughout the Province equals 98 persons to a square mile, but in the more favoured portions the pressure of population is much greater. In the Hazara District there are 207 persons to a square mile and in the trans-Indus plains tract the number is 152. The key to the history of the people of the N.-W. F. I lies in the recognition of the fact that the valley of Peshawar was always more closely connected politically with Eastern ran than with India, though in pre-Mahnmedan times its population was mainly Indian by race. Early history finds the Iranians dominating the whole Indus valley. Then tame the Great, in B.O. 327, then the invasions of the Sakas, and of the White Huns, and later, the two great waves of Muhammadan invasion. Last came the Sikh invasion, beginning in 1818. The Frontier Territory was annexed by the British in 1849 and placed under the control of the Punjab Government. Frequent of population throughout the Province equals

The North-West Frontier Province, as its warfare occurred with the border tribes, but since the conclusion of peace with the Afridis in 1898, the whole border has been undisturbed except for the expedition against the Zakka Khel Afrilis in 1908,

> The division of the Frontier Province from the Punjab was frequently discussed, with the double object of securing closer and more immediate control and supervision of the Frontier by the Supreme Government and of making such alterations in the personnel and duties of frontier officials as would tend to the establishment of improved relations between the blishment of improved relations between the local British representatives and the independent tribesmen. The province was eventually removed from the control of the Punjab administration in 1901. To it was added the political charge of Dir, Swat and Chitral, the Political Agent of which had never been sub-ordinate to the Punjab. The new Province was constituted under a Chief Commissioner and Agent to the Geograph with headand Agent to the Governor-General, with head-quarters at Peshawar, in direct communica-tion with the Government of India in the Forcign Department. In political questions there is no intermediary between the Chief Commissioner and the local officer; an arrangement designed to secure both prompt disposal of references and the utilisation of the expert knowledge of frontier conditions for which the head of the administration is selected.

The People.

The total population of the N.-W.F.P. (1911) 18 3,819,027, made up as follows:-

603,028 Hazara .. 1.593,905 Trans-Indus Districts 1,622,094 Trans-Border Area ..

This last figure is estimated. There are only \$25.6 females per 1,000 males in the towns and 900 females per 1,000 males in rural areas. This disproportion of the sexes cannot at present be explained in the N.-W.F.P. any more than in other parts of Northern India, where it also appears. The discrepancy is greater here than in any other Province of India. There is no ground for believing that the neglect of girls in infancy has any effect in causing the phenomenon. On the other hand, the female

a very large proportion of the land in the administered districts and are the ruling race of the tribal area to the west. There is a long list of Pathan, Baluch, Rajput and other tribal divisions. Gurkhas have recently settled in the Province. The Mahomedan tribes constitute almost the whole population, Hindus amounting to only 5 per cent. of the total and Sikhs to a few thousands. The occupational cleavage of the population confuses ethnical divisions.

Under the North-West Frontier Province Law and Justice Regulation of 1901, custom governs all questions regarding successions, betrothal, marriage, divorce, the separate property of women, dower, wills, gifts, partitions, family relations such as adoption and guardianship, and religious usages and institutions, provided that the custom be not contrary to justice, equity or good conscience. In these matters the Mahomedan or Hindu law is applied only in the absence of special custom.

Climate. Flora and Fauna.

The climatic conditions of the N.-W.F.P., which is mainly the mountainous region, but includes the Peshawar Valley and the riveraine tracts of the Indus in Dera Ismail Khan District, are extremely diversified. The latter district is one of the hottest areas of the Indian continent, while on the mountain ranges the weather is temperate in summer and intensely weather is temperate in summer and intensely cold in winter. The air is generally dry and hence the annual ranges of temperature are frequently very large. The Province has two wet seasons, one the S.-W. Monsoon season, when moisture is brought up from the when moisture is brought up from the Arabain Sea and the Bay of Bengal: the other in winter, when storms from Mesopo-tamia, Persia and the Caspian Districts bring widespread rain and snowfall. Both sources of supply are precarious and not infrequently either the winter or the summer rainfall fails almost entirely. The following description of the Daman, the high ground above the Indus, stretching across Dera Ismail Khan to the mountains on the west, occurs in a account mountains on the west, occurs in a account written some years ago by Captain Crostwaite: "Men drink once a day and the cattle every second day. Washing is an impossible luxury. . . It is possible in the hot weather to ride thirty miles and neither hear days both nor see the cropic of a day for the control of the control a dog bark nor see the smoke of a single fire." With the exception of the Kunhar River, in Hazara, which flows into the Jhelum, the whole territory drains into the Indus. The flora of the Province varies from the shrubby jungle of the south-eastern plains to barren hills, pine forests and fertile mountain valleys. Tigers used to abound in the forests but are not quite extinct; leopards, hyenas, wolves, jackals and foxes are the chief carnivora. Bear, deer and monkeys are found; a great variety of fish is caught in the Indus.

The mountain scenery is often magnificent. The frontier ranges contain many notable peaks of which the following are the principal:

Takht-i-Sulaiman, Sulaiman Range, in Lera Ismail Khan, 11.292 feet.

Pir Ghal, Sulaiman Range, in Mahsud Waziristan, 11,583 feet.

Sika Ram, in the Safed Koh, in the Kurram Agency, 15,621 feet.

Kagan Peaks of the Himalayas, in the Hazara District, 10,000 to 16,700 feet.

Istragh Peak (18,900 ft.), Kachin Peak (22,641 ft.), Tirich Mir (25,426 ft.), all in the Hindu Kush, on the northern border of Chitral Agency.

Trade and Occupations.

The population derives its subsistence almost wholly from agriculture. The Province is practically without manufactures. There is no considerable surplus of commercial products for export. Any commercial importance which the province possesses it owes to the fact that it lies across the great trade routes which connect the trans-border tribal territories and the marts of Afghanistan and Centories and the marks of Arghanistan and Central Aria with India, but the influence of railways is diminishing the importance of these trading interests. The travelling traders (or Powindahs) from the trans-frontier area have always pursued their wanderings into India and now, instead of doing their trading in towns near the border, carry it by train to the large cities in India. Prices of agricultural towns near the border, carry it by train to the large cities in India. Prices of agricultural produce have in recent years been high, but the agriculturists, owing to the poverty of the means of communication, have to some extent been deprived of access to Indian markets and have therefore been unable to profit by the rates prevailing. On the other hand, high prices are a hardship to the non-agricultural classes. The effects of recent extensions of irrigation have the same in the British administered districts as in the Punjab. The cultivated area of the land amounts to 32 per cent. and uncultivated to 68 per cent.

The work of civilisation is now making steady progress. Relations with the tribes have improved, trade has advanced, free medical relief has been vastly extended, police administration has been reformed and the desire of people for education has been judiciously and sympathetically fostered. In the British administered districts 19 per cent. males and 7 per cent. females of the total population are returned as literates. The figures for males denote a very narrow diffusion of education even for India. Those for females are not notably low, but they are largely affected by the high literacy amongst Sikh women, of whom 13°3 per cent. are returned as literate. The inauguration of a system of light railways throughout the Province, apart from all considerations of strategy, must materially improve the condition of the people and also by that means strengthen the hold of the administration over them. The great engineering project of the Upper Swat River Canal, which was recently completed, and the lesser work of the Paharpur Canal, also completed a year or two ago, will bring ease and prospertly to a number of peasant homes. There has arisen in recent years the difficult question of the importation of thousands of rifles from the Persian Guilf.

Administration.

The administration of the North-West Frontier Province is conducted by the Chief Commissioner and Agent to the Governor-General in Council. His staff consists of-

- (1) Officers of the Political Department of the Government of India.
- (2) Members of the Provincial Civil Service.
- (3) Members of the Subordinate Civil Service.
- (4) Superintendents and Assistant Superintendents of Police. (5) Officers recruited for the service of de-
- partments requiring special knowledge— Millitia, Engineering, Education, Medicine and Forestry.

The cadre posts reserved for officers coming under the first head above are :-

Chief Commissioner & Agent to the Gov-ernor-General Secretary Assistant Secretary Personal Assistant Revenue Commissioner and Revenue Secretary Resident in Waziristan... 1 Deputy Commis-5 sioners **}11** Political Agents .. 4 District Judges Assistant Commissioners and Assist-}12 ant Political Agents One Judicial Commissioner.

Two Divisional and

Sessions Judges.

High Court and Divisional Judges.

Administration

The districts under the Deputy Commissioners are divided into from two to five subcollectorates, in charge of tahsildars, who are invested with criminal and civil and revenue powers, and are assisted by naib-tahsildars, who exercise only criminal and revenue powers. Some sub-divisions are in charge of Assistant L. Extra Assistant Commissioners. The village community characteristic of some parts of India is not indigenous among the Pathans. Its place as a social unit is to some extent taken by the tribe, which is held together by the ties by the tribe, when is near together by the tribe of kinship and ancient ancestry, real or imaginary. Modern municipal local government has been introduced in the towns. There are also district boards. The district is the unit for police, medical and educational administration and the ordinary staff includes a District Superintendent of Police, a Civil Surgeon, who is also the Superintendent of Italy and a set of the Superintendent of Italy and a who is also the Superintendent of Jail and a District Inspector of Schools. The Province forms a single educational circle and only possesses one forest division, that of Hazara. are four divisions of the Roads and Building Branch of the Public Works Department, each under an Executive Engineer. The Irri-gation Department of the P.W.D. is in charge Oct. 1910.

of the Chief Engineer, Irrigation, Puniab. who is also ex-officio Secretary to the Chief Commissioner. The administration of the commissioner. The authoristics is vested in an Inspector-General. There is a special force of Border military police. The revenue and expenditure of the Province_are wholly Imperial. Of the Agencies only Kurram and Tochi Valley pay land revenue to the British Government. The revenue administration of all five administered districts is controlled by the Revenue Commissioner. For the administration of civil and criminal justice there are two Civil and Sessions divisions, each presided over by a Divisional and Sessions Judge. The Judicial Commissioner is the controlling authority in the Judicial branch of the administration, and his Court is the highest criminal and appellate tribunal in this Province. The principal officers in the present Administration are:-

Agent to Governor-General and Chief Commissioner, Lieut.-Col. Sir G. O. Roos-Keppel, K.C.I.E., appointed 8th July, 1908.

Resident, Waziristan, J. S. Donald, C.S.I., C.I.E. Judicial Commissioner, H. R. C. Dobbs.

Revenue Commissioner, Lieut.-Col. C. B. Rawlinson, C.I.E., I.A.

Secretary to Chief Commissioner, Major D. B. Blakeway, C.I.E., I.A.

Asst. Secretary to Chief Commissioner, C. Latimer.

Personal Asst. to Chief Commissioner, R. R. Moconachie.

Inspecting Officer, Frontier Corps, Col. A. R. Dick. I.A. Secretaries,

cretaries, Public Works Department, Col. W. J. D. Dundee, C.I.E., R. E. Purves.

Agency Surgeon and Administrative Medical Officer, Lieut.-Col. T. W. Irvine, I.M.S.

Divisional and Sessions Judges, Lieut.-Col. C. F. Minchin, D.S.O., I.A., F. P. Rennie,

Political Agents.

Major W. J. Keen, I.A., Dir, Swat & Chitral. S. E. Pears, Khyber. J. A. O. Fitzpatric Tochi.

Capt. R. A. Lyall, I.A., Kurram. Inspector-General of Police, H. A. Close. Director of Public Instruction, J. A. Richey, M.A. Superintendent, Archæological Survey, Sir A. Stein, K.C.I.E., D. LITT. D.S.C.

Former Chief Commissioners.

Lieut.-Col. H. A. Beane, C.S.I. Died 7th July, 1908.

Assam.

The Province of Assam, 61,682 square miles of the total number of persons supported by in area, includes the Assam Valley Division, the Surma Valley and Hills Division and the State of Manipur. It owes its importance to its situation on the north-east frontier of India. It is surrounded by montainous ranges on three sides while on the fourth (the west) lies the Province of Bengal on to the plains of which debouch the two valleys of the Brahmaputra and the Surma which form the plains of Assam. These two valleys are separated from each other by the Assam Range, which projects westward from the hills on the eastern border.

Population.

The total population of the province in 1911 une total population of the province in 1911 was 7,059,857, of whom 1½ millions were Mahomedans, 3½ millions Hindus and 1½ millions Animists. 46 per cent. of the population speak Bengall, 22 per cent. speak Assamese: other languages spoken in the province are Hindi, Uriya and a great variety of languages classified under the general heading of the classified under the general neading of the Tibeto-Chinese languages. Owing to the great areas of waste and rivers the density of the province is only 115, which, compared with that of most other parts of India, is low, but is more than double that of Burma.

Agricultural Products.

It has agricultural advantages for which it would be difficult to find a parallel in any part of India, climate, soil, rainfall and river sys-tems all being alike favourable to cultivation. stice is the staple food crop, about 4 millon from 70 to 150 miles. Various parts of the acres being devoted to this crop. Except Assam-Kachar-Chittageng-Arakan belt have in the Himalayan Terai Irrigation is unnecessary. Jute and tea are the most important are only two properly worked fields of crops grown for export; the area under jute commercial importance, viz., those of Digboi being generally about 40,000 acres, that under the commercial importance, viz., those of Digboi about 338,000 acres. In 1910, the tea crop a mile apart in N.E. Assam. tes about 338,000 acres. In 1910, the tea crop yielded over 175 million pounds of manufac-tured tea. Wheat and tobacco are also grown tured tea. Wheat and tobacco are also grown and about 30 square miles are devoted to sugar-cane. The total area of 'reserved' forest is about 3,778 square miles and the unclassed state forests cover about 18,509 square miles.

Meteorological Conditions.

Rainfall is everywhere abundant, and ranges from 93 to 124 inches. The maximum is reached from 35 of 12 inches in the Khasi Hills, which is one of the wettest places in the world, having a rainfall of 458 inches. The temperature ranges from 59° at Sibsagar in January to 84° in July. Earthquakes of considerable severity have taken place, by far the worst being that which occurred in 1897.

Land Tenures.

Most of the actual cultivators of the soil usually hold direct from the State, and the area of land on which rent is paid is inconsiderable. A large part of Goalpara and of the more densely populated portions of Sylhet was however included in the permanent settlement of Bengal; and the system of land tenure in Cachar, and the existence of large estates on privileged rates of revenue in Kamrup have tended to produce a tenant class which at the

agriculture. In the 1911 census a very marked increase in tenancy throughout the Province is shown.

Mines and Minerals.

The only minerals in Assam worked on a commercial scale are coal, limestone and petroleum oil. The most extensive coal measures are in the Naga Hills district, where about 239,000 tons are raised annually and about 239,000 tons are raised annually and used mainly by the river steamers. Limestone is quarried in the Khasi and Jaintia Hills, in Sylhet, and in the Gare hills; about 96,000 tons are quarried in a year. Petroleum is worked only in Lakimpur; the oil is rich. in paraffin, and the chief products are light naphthas, kerosine and wax. The oil is sold locally, and the wax is exported, mainly to England. Lubricating oil is produced on the southern slopes of the Khasi Hills. The total output of oil from the wells was, in 1910, nearly 3,300,000 gallons.

An account of the petroleum occurrences in Assam was recently published in the me-moirs of the Geological Survey of India. It states that the petroleum localities in this province are confined to a curved belt of country along the basins of the Brahmaputra and Surma. This belt is traceable over a distance of some 800 miles from N.E. Assam through Kachar and Chitagong to the Arakan coast, where it has a S.S.E trend. It is roughly concentric with the trend of the Burmese Rice is the staple food crop, about 4 million acres being devoted to this crop. Except in the Himalayan Terai irrigation is unnecessary. Jute and tea are the most invariant.

Manufactures.

Silk is manufactured in the Assam Valley. Shi is manufactured in the Assau value, the weaving being done by the women. Cotton weaving is also largely practised by the women, and almost every house contains a loom; the cloth is being gradually displaced by imported goods of fine texture and colour. Boat building, brass and metal and earthenwares, tea manufacture and limestone burning are the other industries. limestone burning are the other industries apart from agriculture, which itself employs about 84 per cent. of the population. Assam carries on a considerable trade with the adjoining foreign tribes and countries. In 1912-13 the total trade with Bhutan amounted to over 24 lakhs. This is considerably less than usual owing to the fact that the exports fell considerably owing to an outbreak of cholera at Darranga which frightened the Bhutlyas and sent them back to their homes without their usual supplies. In addition to this there is a small frade with the Abor, Mishmi, and other tribes.

Communications.

The trade of Assam is chiefly carried by river, but increasing use is being made of the Assam Bengal Railway which runs from 1901 census amounted to more than one-third the port of Chittagong to Silchar at the eastern

end of the Surma Valley. A branch of that line runs along the south of the Assam Valley from Gauhati to Tinsukia, a station on the Dibru-Sadiya Railway, and is connected with the Surma Valley branch by a line that pierce the North Cachar Hills, the points of junction being Lumding in the northern and Badarpur in the southern valley. The Eastern Bengal State Railway connects Assam with the Bengal system via the valley of the Brahmaputra. The excellence of its water commanication makes Assam less dependent upon roads than other parts of India; but in recent years the road system has been developed and there is a trunk road through the whole length of the Brahmaputra Valley and an excellent road from Gauhati to Shillong. A large fleet of steamers maintained by the India General Steam Navigation Company pies on the rivers of both valleys. A daily service of passenger boats runs from Goalundo to Dibrugarh.

Education.

The latest census report shows that there are in the Province at present 4,118 educational institutions including two Arts Colleges with 168,250 pupils. Of the total population 333,672 are returned as literate. The distribution of literacy naturally varies considerably throughout the Province. The large number of immigrant coolies and of aboriginal tribes tends to lower the proportion of literates in the Brahmaputra Valley, and a comparatively high standard of literacy in the Hills due and the Khasis of whom a large proportion amongst the Khasis of whom a large proportion have been converted to Christianity. Amongst the Animists in the Hills the Lushals seem to have an extraordinary keenness for learning, which is the more remarkable, because the administration of their district dates from quite recent times.

Administration.

The province of Assam was originally formed in 1874 in order to relieve the Lieutenant-Governor of Bengal of part of the administration of the huge territory then under him. In 1903, as the result of further deliberations, it was decided to add to the small Province of Assam the eastern portion of its unwieldy neighbour and to consolidate those territories under a Lieutenant-Governor. The Province of Eastern Bengal and Assam as then constituted was again broken up on the 1st of April, 1912: the Eastern Bengal Districts were united with the Bengal Commissionerships of Burdwan and the Presidency to form the Presidency of Bengal under a Governor-in-Council, Bihsr, Chota Nagpur and Orissa were formed into a separate province, while the old Province of Assam was re-constituted under a Chief Commissioner.

The capital is Shillong, a town laid out with great taste and judgment among the pine woods on the slopes of the Shillong Range which rises to a height of 6,450 feet above the sea. It was destroyed in the earthquake of 1897 and has been rebuilt in a way more likely to withstand the Shocks of earthquake.

Chief Commissioners of Assam.

٠	Colonel R. H. Keatinge, C	.8.1.	• •	••	1874
	Sir S. C. Bayley, K.c.s.1.	••		••	1878
	C. A. Elliot, c.s.i	• •			1881
	W. E. Ward	••	• •		1883
	Dennis Fitzpatrick, c.s.i.	• •			1887
	J. Westland, c.s.i	••			1889
Ì	J. W. Quinton, c.s.1.	••	••		1889
ĺ	BrigGeneral Sir H. Colle	tt, R.C.	.в.		1891
	W. E. Ward, c.s.s			٠	1891
	C. J. Lyall, c.s.i	• •	• •		1894
į	H. J. S. Cotton, c.s.i.	• •		٠,	1896
l	J. B. Fuller, C.I.E	••	••		1900
ı	J. B Fuller. 0.1.E				1902
İ	C. W. Bolton, c.s.i.				1903
	Note.—The Chief Comm was revived 1st April,	issione 1912.	ership	of A	Assam
İ	Sir Archdale Earle, K.C.I.I	3.			1912

Administration.

Chief Commissioner, Sir Archdale Earle, K.C.I.E., appointed 1st April, 1912.

Personal Assistant, Lieut. H. R. Willson (114th Marathas).

Chief Secretary, B. C. Allen.

Second Secretary, A. W. Botham.

Secretary, Public Works Department, W. McM. Sweet.

Inspector General of Registration:—A. R. Edwards, i-c.s.

Judges, F. J. Jeffries, J. F. Graham.

Director of Public Instruction, J. R. Cunningham. Inspector-General of Police, Lt.-Col. A. E. Woods.

Sanitary Commissioner, Col. H. E. Banatvala, I.M.S.

Comptroller, Financial Department, W. A. T.

Political Agent in Manipur, Lt.-Col. H. W. G. Cole, c.s.i.

Superintendent and Remembrancer of Legal Affairs:—Abdul Majid, B.A.

Director of Land Records and Agriculture, J. McSwiney.

Superintendent, Archaeological Survey, Eastern Circle, D. B. Spooner. Chief Inspector of Factories, R. P. Adams, J.

Cowan, (Ag.)

LEGISLATIVE COUNCIL.

F. C. Henniker.
W. J. Reid.
W. McM. Sweet,
J. R. Cunningham, M. A.
J. F. Graham.
Abdul Majid.
A. B. Hawkins.
Raja Prabhat Chandra Barua.
Raja Prabhat Barua.
Col. H. E. Banatvala.
B. O. Allen.

A. W. Botham.

Baluchistan.

Baluchistan is an oblong stretch of country property were so inscours that the country has been occupying the extreme western corner of the landian Empire. It is divided into three main establishment of peace and security has been divisions: (1) British Baluchistan with an area accompanied by a marked extension of agridivisions; (1) British Baluchistan with an area of 9,476 square miles consisting of tracts assigned to the British Government by treaty in 1879; (2) Agency Territories with an area of 44,345 square miles composed of tracts which have, from time to time, been acquired by lease or otherwise brought under control and placed directly under British officers; and (3) the Native States of Kalat and Las Bela with an area of 78.434 square miles. The Province embraces an area of 134,638 square miles and according to the census of 1911 it contains 834,703 inhabitants, divided roughly half and half between the administered districts and States.

The country, which is almost wholly mountainous, lies on a great belt of ranges connecting the Safed Koh with the hill system of Southern Persia. It thus forms a watershed the drainage of which enters the Indus on the east and the Arabian Sea on the south while on the north and west it makes its way to the inland lakes which form so large a feature of Central Asia. Rugged, barren, sun-burnt mountains, rent by high chasms and gorges, alternate with arid deserts and stony plains, the prevailing colour of which is a monotonous sight. But this is redeemed in places by level valleys of considerable size in which irrigation enables much cultivation to be carried on and rich crops of all kinds to be raised.

The political connection of the British Government with Baluchistan commenced from the outbreak of the First Afghan War in 1839; it was traversed by the Army of the Indus and was afterwards occupied until 1842 to protect the British lines of communication. The districts of Kachi, Quetta and Mastung The districts of Rachi, quetes and mastering were handed over to the Amir of Afghanistan and Political Officers were appointed to administer the country. At the close of the First Afghan War, the British withdrew and these districts were assigned to the Khan of Kalat. The founder of the Baluchistan Province as it now exists was Sir Roberts Sandeman who broke down the close border system and welded the Baluch and Brahui Chiefs into a clos federacy. In the Afghan War of 1879 Pishin, Sibl, Harnai and Thal-Chotiali were handed over by Yakub Khan to the British Govern-ment and retained at Sir Robert Sandeman's strenuous insistence.

Industries.

Baluchistan lies outside the monsoon area and its rainfall is exceedingly irregular and soanty. Shahrig which has the heaviest rainfall, records no more than 114 inches in a year. In the highlands few places receive more than 10 inches and in the plains the average rainfall is about 5 inches, decreasing in some cases to 3. The majority of the indigenous population are dependent for their livelihood on agriculture, provision and care of animals and transport. The Afghan and the Baluch, as a rule, cultivates his own lands. The Brahuis dislike agriculture and prefer a pastoral life. Previous to the advent of the British life and

Baluchistan is an oblong stretch of country property were so insecure that the cultivator culture which accounts for the increase in the numbers of the purely cultivating classes. The Mekran Coast is famous for the quantity and quality of its fish and the industry is con-stantly developing. Fruit is extensively grown in the highlands and the export is increasing.

Education is imparted in 157 schools with 4,129 scholars. The mineral wealth of the Province is believed to be considerable, but cannot be exploited until railways are deve-loped. Coal is mined at Khost near Quetta and in the Bolan Pass and chromite is extracted in the Quetta-Pishin District.

Administration.

The head of the local administration is the officer styled Agent to the Governor-General and Chief Commissioner. Next in rank comes the Revenue Commissioner who advises the Agent to the Governor-General in financial matters and generally controls the revenue administration. The keynote of administration in Baluchistan is s.lf-government by the tribesmen, as far as may be, by means of their Jirgas or Councils of Elders along the ancient customary lines of tribal law, the essence of which is the satisfaction of the aggrieved and the settlement of the feud, not retaliation on the aggressor or the vindictive punishment of a crime. The district levies which number 2.300 odd play an unobtrusive but invaluable part in the work of the Civil Administration not only in watch and ward and the investigation of crime, but also in the carrying of the mails, the serving of processes and other mis-cellaneous work. In addition to these dis-trict levies there are three irregular Corps in the Province: the Zhob Militia (formerly known as the Zhob Levy Corps), the Makran Levy Corps, and the Chagai Levy Corps. Their combined strength in the latest returns was 953 cavalry and 892 infantry. The Province does not pay for itself and receives large subsidies from the Imperial Government. The receipts and expenditure roughly balance each other at 25½ lakhs.

ADMINISTRATION.

Agent to the Governor-General and Chief Commissioner, Archer The Hon'ble Colonel C., C.S.I., C.I.E., I.A.

Revenue and Judicial Commissioner, Lieut.-Colonel A. McConaghey.

Secretary, Public Works Department, Colonel J. C. Rimington,

First Assistant to the Agent to the Governor-General and Secreatry to the Chief Commis-sioner, Bray, Denys de S., 1.0.8.

Second Assistant to the Agent to the Governor-General, Major W. G. Hutchinson.

Political Agent, Zhob, Jacob, Major, A. L., I.A. Assistant Political Agent, Zhob, Capt. T. G. M. Harris.

Political Agent, Kalat and Bolan Pass, Dew; Major A. B., C.I.E., I.A.

Assistant Political Agent, Kalatand Bolan Pass. Captain D. M. Field.

Assistant for Mekran to the Political Agent in Kalat and ex-officio Commandant, Mekran Levy Corps, Capt. T. H. Tucker.

Political Agent, and Deputy Commissioner, Quetta and Pishin, Capt. H. C. Finnis.

Assistant Political Agent and Assistant Commissioner, Quetta and Pishin, Vacant.

Political Agent. Chagai, Lieut.-Colonel F. C. Webb-Ware.

Political Agent and Deputy Commissioner, Sibi. Major F. McConaghey.

Assistant Political Agent, Sibr, Capt. J. L. R.

Political Agent, Loralai, Major A. D. G. Ramsay.

Assistant Political Agent, Loralai, Hughes, T.O.

Residency Surgeon and Chief Medical Officer, Duke, Lieut.-Colonel A. L., 1.M.S.

Ciril Surgeon, Quetta, Major W. M. Anderson.

ANDAMAN AND NICOBAR ISLANDS.

This is a group of islands in the Bay of Bengal of which the headquarters are at Port Blair, by sea 780 miles from Calcutta, 740 miles from Madras and 360 miles from Rangoon, with which ports there is regular communication.

The land area of the islands under the administration is 3,143 square miles, namely, 2,508 square miles in the Andamans and 635 square miles in the Nicobars. The total population of the islands was returned in the census of 1911 as 26,459. The Islands are administered by the Chief Commissioner of the Andaman and Nicobar Islands who is also the Superintendent of the Penal Settlement. The penal settlement, which was established in 1858, is the most important in India.

Superintendent of Port Blair, Lieut.-Col. M. W. Douglas, C.I.E.

Medical Super intendent of Jails. Captain R. E. Flowerdew. Officer. Captain J. H. Senior Medical Murray, I.M.S.

COORG.

Coorg is a small petty Province in Southern India west of the State of Mysore. Its area is 1,582 square miles and its population 174,976. Coorg came under the direct protection of the British Government during the war with Sultan Tipu of Seringapatam. In May 1834, owing to misgovernment, it was annexed. The Province is directly under the Government of India and administered by the Chief Commissioner of Coorg who is the Resident in Mysore with his headquarters at Bangalore. In him are combined all the functions of a local government and a High Court. The Secretariat is at Bangalore where the Assistant Resident is styled Secretary to the Chief Commissioner of Coorg. In Coorg his chief authority is the Commissioner whose headquarters are at Mercara and whose duties extend to every branch of the administration. The chief wealth of the country is agriculture and especially the growth of coffee. Although owing to over-production and insect pests coffee no longer com-mands the profits it once enjoyed, the Indian output still holds its own against the severe competition of Brazil. The bulk of the output is exported to France.

Resident and Chief Commissioner, Coorg, The Hon. Lt.-Col. Sir Hugh Daly, K.C.I.E.

AJMER-MERWARA.

Ajmer-Merwara is an isolated British Province in Rajputana. The Agent to the Govconsists of two small separate districts, Ajmer and Merwara, with a total area of 2,711 square miles and a population of 501,395. At the close of the Pindari war Daulat Rao Scindia, by a treaty dated June 25, 1812 and a late of the Alexandra of 501,395. dated June 25, 1818, ceded the district to the British. Fifty-five per cent. of the population are supported by agriculture, the industrial population being principally employed in the cotton and other industries. The principal crops are maize, millet, barley, cotton, oilseeds and wheat.

Agent to the Governor-General in Rajputana Commandant and District Superintendent of Military Police, Captain H. W. Rowlandson. The Hon. Lieut.-Col. Sir E. G. Colvin, R.O.S.I.

Aden.

Empire after the accession of Queen Victoria. Its acquisition in 1839 was the outcome of an outrage committed by the local Fadhli chief upon the passengers and crew of a British buggalow wrecked in the neighbourhood. Various acts of treachery supervened during the negotiactions regarding the buggalow outrage and Aden was captured by a force sent by the Bombay Government under Major Baillie. The act has been described as one of those opportune political strokes which have given geographical continuity to British possessions scattered over the world.

Aden is an extinct volcano, five miles long and three broad, jutting out to sea much as Gibraltar does, having a circumference of about 15 miles and connected with the mainland by a narrow isthmus of flat ground. This is nearly covered at one part at high spring tides, but the causeway and aqueduct are always above, though some-times only just above, water. The highest peak on the wall of precipitous hills that surrounds the old crater which constitutes Aden is 1,775 feet above sea level. Rugged spurs, with valleys between, radiate from the centre to the oircumference of the crater. A great gap has been rent by some volcanic disturbance on the sea surface of the circle of hills and this opens to sea surface of the circle of mills and this opens to the magnificent harbour. The peninsula of Little Aden, adjacent to Aden proper, was obtained by purchase in 1868 and the adjoining tract of Shalkh Othman, 39 square miles in extent, was subsequently purchased when, in 1882, it was found necessary to make provision

for an over-flowing population.

Attached to the settlement of Aden are the islands of Perim, an island of 5 square miles extent in the Straits of Bab-el-Mandeb, in the entrance to the Arabian Sea; Sokotra island, at the entrance to the Gulf of Aden, in the Arabian Sea; Sokotra island, bian Sea, acquired by treaty in 1886 and 1,382 miles in extent; and the five small Kuria Muria islands, ceded by the Imam of Maskat in 1854 for the purpose of landing the Red Sea cable, and otherwise valuable only for the guano deposits found upon them. They are off the Arabian coast about two-thirds of the way from Aden to Maskat. The whole extent of the Aden settle-ment, including Aden, Little Aden, Shaikh Othman and Perim is approximately 80 miles. The 1911 census shows Aden, with Little Aden, Shaikh Othman, and Perim to have a population of 46,165. The population of Perim is a matter of a few hundreds, largely dependent on the Coal Depot maintained there by a commercial firm. That of Sokotra is 12,000, mostly pastoral and migratory inland, fishing on the coast.

Strategic Importance.

Aden's first importance is as a naval and military station of strategic importance. This aspect was ably discussed by Colonel A. M. Murray, in his "Imperial Outposts". He points out that Aden is not a naval base in the same sense that Gibraltar, Malta and Hong Kong were made, but a point d'appui, a rendezvous and striking point for the fleet. It was seized in 1839 because of its usefulness as a harbour of reinge for British ships and from a strategist's cially when those tribes are living under the point of view this is its primary purpose and the again of the British Crown. The Persians, the raison d'etre of its forts and garrison. Aden Turks and even the Arabs did more for Aden in

Aden was the first new territory added to the under British rule has retained its ancient mpire after the accession of Queen Victoria. prestige as a fortress of impregnable strength, invulnerable by sea and by land, dominating the entrance to the Red Sea, and valuable to its owners as a commercial emporium, a port of call and a cable centre. The harbour extends 8 miles from east to west and 4 from north to south and is divided into two bays by a spit of land. The depth of water in the western bay is from 3 to 4 fathoms, across the entrance 41 to 5 fathoms, with 10 to 12 fathoms 2 miles outside. The bottom is sand and mud. There are several islands in the inner bay. Strategic control of the Red Sea was rendered complete by the

or the Red Sea was rendered complete by the annexation of Perim and Sokotta, which may both be regarded as outposts of Aden, and are under the political jurisdiction of the Resident. The Arab chiefs of the hinterland of Arabia are nearly all stipendiaries of the British Government. Colonel Wahab and Mr. G. H. Fitzmaurice, of the Constantinople Embassy, were appointed in 1902 as Commissioners to delimitate the frontier between Turkish Arabia and the Ritish predatorante around Aden. A and the British protectorate around Aden. A convention was signed in 1905 settling details, the frontier line being drawn from Shaikh Murad, a point on the Red Sca coast opposite Perim, to the bank of the river Bana, the eastern limit of Turkish claims, at a point some 29 miles north-east of Dthala, and thence north-east to the great desert. The area left within the British Protectorate was about 9,000 square miles. The arrangement gave to Turkey Cape Bab-el Manarrangement gave to Turkey Cape Bab-et Man-deb, which forms the Arabian bank of the eastern channel past Perim into the Red Sea. England took this gatepost of the Red Sea from the Turks in November 1914, A sani-torium and small British garrison used to be maintained at Dthala, which is 7,700 feet high, but the garrison was withdrawn in 1906, Lord Worley explaining the stan as baing in eacced-Morley explaining this step as being in accordance with the policy stated in the House of Lords in 1903,—that His Majesty's Government had never desired to interfere with the internal and domestic affairs of the tribes on the British side of the boundary, but had throughout made it plain that they would not assent to the interference of any other Power with those affairs.

British Policy.

There has been much criticism of a policy under which Aden has failed to advance with the same progressive strides which have marked the development of other British dependencies. It is said that the former Persian possessors of Aden built its wonderful water tanks, and the Arabs made an aqueduct 20 miles long, while the British have done nothing except mount guns to protect their coal yards. Trade, it is argued, flourishes because this is a natural emporium of commerce, but not because of the attention its needs get from Government. Lord Roberts, writing on this point a few years ago said: "It is not creditable to British rule to make use of a dependency like Aden for selfish purposes of political necessity without attempting to extend the benefits of civilised Government to the neighbouring native tribes, espetheir time than we have done during our seventy years' occupation.....Aden has always suffered under the disadvantage of being an appunage of the Bombay Presidency, with which it has neither geographical, racial not political affinity. Probably the best solution of the matter would be to hand over the place to the Colonial Office, relieving the Government of Bombay of a charge which is only looked upon as an incubus." Some important steps have been taken in the past few years to satisfy the commercial needs of the port.

Trade.

The trade of Adv., has developed immensely since British acquisition in 1839, largely through the Government of India declaring it a free port in 1850, since when it has attracted much of the valuable trade between Arabia and Africa, formerly monopolised by the Red Sea ports of Hodelda and Mokha. The opening of the Suez Canal was also responsible for a large increase of trade through Aden into the interior. The total imports by sea in the last year for which complete statistics are available (1913-14) amounted to 23,756,864; by land £170,213; treasure, £450,305; exports by sea were £3,207,233; by land, £140,159; treasure, £741,687. These statistics are exclusive of Government stores and treasure.

The language of the settlement is Arabic, but several other Asiatic tongues are spoken. The population is chiefly returned as Arabs and Shaikhs. The Somalis from the African coast and Arabs do the hard labour of the port. So far as the settlement is concerned there are no products whatever, with the important exception of salt. The crops of the tribal low country adjoining are jowar, sesamum, a little cotton, madder, a bastard saffron and a little indigo. In the hills, wheat, madder, fruit, coffee and a considerable quantity of wax and honey are obtained. The water supply forms the most important problem. Water is drawn from four sources—wells, aqueducts, tanks or reservoirs and condensers.

Administration.

The Aden settlement is subject politically to the Government of Bombay and its administration is conducted by a Resident, who is assisted by four Assistants. The Resident is also military Commandant and is usually an officer

selected from the Indian army, as are his assistants. The Resident has jurisdiction as a Judge of the Vice-Admiralty Court in matters connected with slave trading, his court being called the Colonial Court of the Admiralty. The laws in force in the settlement are generally speaking those in force in the Bombay Presidency, supplemented on certain points by special regulations to suit local conditions. The management of the port is under the control of a Board of Trustees formed in 1888. The principal busi-ness of the Port Trust has been the deepening of the harbour, so as to allow vessels of all sizes to enter and leave at all states of the tide. The Aden police force numbers slightly over 200 There are hospitals and dispensaries in both Aden and Perim, in addition to the military institutions of this character. The garrison comprises a troop of engineers, three companies of garrison artillery, one battalion of British infantry, two companies of sappers and miners and one Indian regiment. Detachments from the last named are maintained at Perim and Shaikh Othman respectively.

The average temperature of the station is 87 degrees in the shade, the mean range being from 75 in January to 98 in June, with variations up to 102. The lulis between the monsoons, in May and September are very oppressive. Consequently, long residence impairs the faculties and undermines the constitution of Europeans and even Indians uffer from the effects of too long an abode in the station for long periods, being usually sent there one year and relieved the next. But Aden is exceptionally free from infectious diseases and epidemics, and the absence of vegetation, the dryness of the soil and the purity of the drinking water constitute efficient safeguards against many malacies common to tropical countries. The annual rainfall varies from ½ linch to 81 inches, with an irregular average of 3 inches.

The following are the principal officers of the present administration:—

Political Resident, Major-General Shaw.

Assistant Residente, Captain F. C. Bannatyne, (Perim), Lieut.-Colonel H. F. Jacob, Major J. K. Condon, Captain C. C. J. Barrett, Captain B. R. Reilly, Lieutenant John de la Hay Gordon.

The area enclosed within the boundaries of discretion. In 1881 the State of Mysore; dia is 1,773,168 square miles, with a population of 315.132.537 of people—nearly one-fifth instration that the traditions of Native rule India is 1,773,168 square miles, with a population of 315,132,537 of people—nearly one-fifth of the human race. But of this total a very large part is not under British Administration. The area covered in the Native States is 675,267 square miles with a population of seventy millions. The Native States embrace the widest millions. The Native States embrace the widest variety of country and jurisdiction. They vary in size from petty states like Lawa, in Rajputana, with an area of 19 square miles, and the Simila Hill States, which are little more than small holdings, to States like Hyderabad, as large as Italy, with a population of thirteen millions. They include the inhospitable regions of Western Rajputana, Baroda, part of the Garden of India, Mysore, rich in agricultural wealth, and Kashmir, one of the most favoured spots on the face of the globe. most favoured spots on the face of the globe. In the case of 175 States control is exercised by the Government of India, and of about 500 by the Provincial Governments. The four principal states, Hyderabad, Mysore, Baroda and Kashmir, are in direct relation with the Government of India. The other States are grouped under the direction of an Agent to the Governor-General, as for Rajputana and Central India; in one case the Provincial Government has been compelled to group its States, there is the states are described by the states. those of Kathiawar, under an Agent to the Governor.

Relations with the Paramount Power.

So diverse are the conditions under which the Native States were established and came into political relation with the Government of India, that it is impossible even to summarise them. But broadly it may be said that as the British boundaries expanded, the states came under the influence of the Government and the rulers were confirmed in their possessions. To this general policy however there was, for a brief period, an important departure. was, for a brief period, an important departure. During the regime of Lord Daihousie the Government introduced what was called annexation through lapse. That is to say, when there was no direct heir, the Government considered whether public interests would be secured by granting the right of adoption. Through the application of this policy, the states of Satara and of Nagpur fell in to the East India Company, and the kingdom of Oudh was annexed because of the gross misgovernment of its rulers. Then came the Mutiny. It was followed by the transference of the dominions of the East India Company to the Crown, and an irrevocable declaration of policy Crown, and an irrevocable declaration of policy toward the Native States. In the historic Proclamation of Queen Victoria it was set out that "We desire no extension of our present tinto we desire in extension of our present territorial possessions; and while we will per-mit no aggression on our dominions or our rights to be attempted with impunity, we shall rights to be attempted with impunity, we shall allow no encroachments on those of others. We shall respect the rights, dignity and honour of the Native Princes as our own; and we desire that they, as well as our own subjects, should enjoy that prosperity and that social advancement which can only be secured by internal peace and good government." Since the issue of that proclamation there has been no encroachment on the area under Native rule by the Government of India. On the contrary, the movement has been in the op-

were almost forgotten, was restored to the old Hindu ruling house. In 1911 the Maharajah of Benares, the great taluqdar of Oudh, was granted ruling powers over his extensive posgranted rilling powers over his extensive pussessions. On many occasions the Government of India has had to intervene, to prevent gross misgovernment, or to carry on the administration during a long minority; but always with the undeviating intention of restricts the testification of consideration of the processity. toring the territories as soon as the necessity for Intervention passed. Almost all states possess the right of adoption in default of heirs.

Rights of Native States. The rights and obligations of the Native States are thus described by the Imperial Gazetteer. The Chiefs have, without exception, gained protection against dangers from without and a guarantee that the protector will respect their rights as rulers. The Paramount Power acts for them in relation to foreign Powers and other Native States. The in-habitants of the Native States are the subjects of their rulers, and except in case of personal jurisdiction over British subjects, these rulers and their subjects are free from the control of the laws of British India. Criminals escaping to a Native State must be handed over to it by its authorities; they cannot be arrested by the police of British India without the permission of the ruler of the State. The Native Princes have therefore a suzerain power which Princes have therefore a suzerain power which acts for them in all external affairs, and at the same time scrupulously respects their internal authority. The suzerain also intervenes when the internal peace of their territories is seriously threatened. Finally they participate in all the benefits which the protecting power obtains by its diplomatic action, or by its administration of its own dominions, and thus secure a share in the comparer the relithus secure a share in the commerce, the railways, the ports, and the markets of British India. Except in rare cases, applied to maritime states, they have freedom of trade with British India although they levy their own customs, and their subjects are admitted to most of the public offices of the British Government.

Obligations of Native States. On the other hand the Native States are under an obligation not to enter into relations with foreign nations or other states; the with foreign nations or other states; the authority of their rulers has no existence outside their territories. Their subjects outside their dominions become for all intents and purposes British subjects. Where foreign interests are concerned, the Paramount Power must act so that no just cause of offence is climb by its subordinate allies all Nativa given by its subordinate aliles. All Native States alike are under an obligation to refer to the British every question of dispute with

ance, nor from assuming temporary charge of a Native State when there shall be sufficient reason to do so," Of this necessity the Governor-General-in-Council is the sole subject to the control of Parliament. judge, Where the law of British India confers jurisdiction over British subjects or other specified persons over British subjects of that power is exercised by the British courts which possess it. The subjects of European Powers and the United States are on the same footing. Where can-States are on the same footing. Where cantonments exist in Native territory, jurisdiction both over the cantonment and the civil station is exercised by the suzerain power.

Political Officers.
The powers of the British Government are exercised through Political Officers who as a rule reside in the states themselves. In the larger states the Government is represented by a Resident, in groups of states by an Agent to the Governor-General, assisted by local Residents or Political Agents. These officers form the sole channel of communication beform the sole channel of communication between the Native States and the Government of India and its Foreign Department, with the officials of British India and with other Native States. They are expected to advise and assist the Ruling Chiefs in any administration of the Property of t trative or other matters on which they may be consulted. Political Agents are similarly employed in the larger States under the Proemployed in the larger states under the Privational Governments, but in the petty states scattered over British India the duties of the Agent are usually entrusted to the Collector or Commissioner in whose district they lie. All questions relating to the Native States are under the special supervision of the Supreme Government, and in the personal charge of the Governor-General. A proposal has been made by the Government of India that, in view of the increasing importance of the Native States, an additional Secretary, styled the Political Secretary, shall be appointed who shall be in special charge, under the Viceroy, of these questions.

Closer Partnership.

Events have tended gradually to draw the Paramount Power and the Native States into closer harmony. Special care has been devoted to the education of the sons of Ruling Chiefs, first by the employment of tutors, and afterwards by the establishment of special colleges for the purpose. These are now established at Ajmere, Rajkot, Indore and Lahore. The Imperial Cadet Corps whose headquarters are at Dehra Dun, imparts military of inter training to the scions of the ruling chiefs and affairs."

ning set forth in his minute of 1860, that the ton has placed at the disposal of the Native Government of India is not precluded from States the products of the Universities. In stepping in to set right such serious abuses in a Native Government as may threaten any part of the country with anarchy or distant States, approximating more closely to the British ideal. Most of the Native States have also come forward to bear their share in the burden of Imperial defence. Following on the spontaneous offer of military assistance when war with Russia appeared to be inevi-table over the Penjdeh incident in 1885, the states have raised a portion of their forces up to the standard of the Native troops in the Indian Army. These are termed Imperial Service Troops; they belong to the states, they are officered by Indians; but they are inspected by a regular cadre of British officers, under the general direction of the Inspector-General of Imperial Service Troops. Their numbers are approximately 22,000 men; their armament is the same as that of the Indian Army and they have done good service often under their own Chiefs, on the Frontier and in China and in Somaliland. Secure in the knowledge that the Paramount Power will respect their rights and privileges, the Ruling Chiefs have lost the suspicion which was common when their position was less assured, and the visits of the Prince of Wales in 1875, of the Prince and Princess of Wales in 1905-06, and of the King and Queen in 1911-12 have tended to seal the devotion of the great feudatories to the Crown. The improvement in the standard of native rule has also permitted the Government of India largely to reduce the degree of interference in the internal affairs of the Native States. The new policy was authoritatively laid down by Lord Minto, the then Viceroy, in a speech at Udaipur in 1909,

when he said :-"Our policy is with rare exceptions, one of non-interference in the internal affairs of the Native State. But in guaranteeing their in-ternal independence and in undertaking their protection against external aggression it naturally follows that the Imperial Government has assumed a certain degree of responsibility for the general soundness of their administration and could not consent to incur the reproach of being an indirect instrument of misrule. There are also certain matters in which it is necessary for the Government of India to safeguard the interests of the community as a whole as well as those of the paramount power, such as railways, telegraphs and other services of an Imperial character. But the relationship of the Supreme Government to the State is one of suzerainty. The founda-tion-stone of the whole system is the recogni-tion of identity of interests between the Imperial Government and Durbars and the minimum of interference with the latter in their own

HYDERABAD.

Hyderabad, the premier Native State in India. is in the Deccan. Its area is 82,698 square miles and population 13,374,676. The general physical characteristics of the State are an elevated

producing wheat and cotton. To the South-East is the granatic region of the Telugus and producing rice.

HISTORY .- In pre-historic times Hyderabad plateau, divided geographically and ethnologicame within the great Dravidian zone. The cally by the Manjra and Godaveri rivers. To date of the Aryan conquest is obscure, but the North-West is the Trappean region, peopled dominions of Asoka 272 to 231 B. C. embraced by Marathas, a country of black cotton soil, the northern and Western portlons of the State.

Three great Hindu dynasties followed, those of the Pallavas, Chalukyas and Yadavas. In 1294 the irruption of the Mahomedans under Ala-ud-din Khilji, commenced, and thenceforward till the time of Aurungzebe the history of the State is a confused story of struggles against the surviving Hindu kingdom of the South, and after the fall of Vijayanager, with each other. Aurungzebe stamped out the remains of Mahoniedan independence of the South, and set up his General, Asaf Jah, of Turcoman descent, as Viceroy, or Subhadar of the Deccan in 1713. In the chaos which followed the death of Aurungzebe, Asaf Jah had no difficulty in establishing and maintaining his independence, and thus founded the present House. During the struggle between the British and the French for mastery in India, the Nizam finally threw in his lot with the British, and unshaken even by the excitement of the mutiny, has been so staunch to his engagements as to earn the title of "Our Faithful Ally." The present ruler is H. H. Sir Usman Ali Khan Bahadur Fateh Jung, G.C.S.I.

THE BERARS.—A most important event in the history of the State occurred in November 1902, when the Assigned Districts of Berar rever leased in perpetuity to the British Govern-ment. These districts had been administered by the British Government on behalf of the Nizam since 1853; under the treaties of 1853 and 1860, they were "assigned" without limit of time to the British Government to provide for the maintenance of the Hyderabad contingent, a body of troops kept by the British Government for the Nizam's use, the surplus revenues, if any, being payable to the Nizam. In course of time it had become apparent that the maintenance of the Hyderabad contingent on its old footing as a separate force was inexpedient and unnecessary, and that similarly the administration of Berar as a separate unit was very costly, while from the point of view of the Nizam, the precarious and fluctuating nature of the surplus was finanre-affirmed His Highness' sovereignty over Berar, which instead of being indefinitely "assigned" to the Government of India, was leased in perpetuity to an annual rental of 25 lakhs (nearly £167,000); the rental is for the present charged with an annual debit towards the repayment of loans made by the Govern-ment of India. The Government of India were at the same time authorised to administer Berar in such manner as they might think desirable, and to redistribute, reduce, re-organise and control the Hyderabad Contingent, due provision being made, as stipulated in the treaty of 1858, for the protection of His Highness' dominions. In accordance with this agreement the Contingent ceased in March 1903 to be a separate force and was re-organised and redistributed as an integral part of the Indian Army, and in October 1903 Berar was transferred to the administration of the Chief Commissioner of the Central Provinces.

ADMINISTRATION.—The Nizam is

in the State and exercises the power of life and death over his subjects. For convenience in administration the Minister is the chief controlling authority in the State. To assist him there are five Assistant Ministers, Financial, Judicial, Military, Public Works and Ecclesiastical. All questions of importance are referred to the

Council, which is composed of the Minister as President, and the Assistant Ministers as Members. Business disposed of by the Council is immediately reported to the Nizam. The actual work of the departments is done by six Secretaries. Below the Secretariat the State is divided into Subhas or Divisions, Districts and Talukas. Fifteen District, 86 Taluk and nine Divisional Boards are at work in the District. A Legislative Council, consisting of 21 members, of whom 13 are official and 8 non-official, is re-sponsible for making laws. The State maintains its own currency, the Osmania Sicca rupee with a subordinate coinage. In 1904 an improved Mahbubia rupee was struck and this exchanges with the British rupee at the ratio of 115 or 116 to 100. It has its own postal system and stamps for internal purposes. It maintains its own Army, comprising 19,597 troops, of which 6,064 are classed as Regular and 13,533 as Irregular. There are in addition 696 Imperial Service Troops.

FINANCE.—After many vicissitudes, financial position of the State is strong. vicissitudes, The current budget provides for a revenue of Rs. 521 lakhs and a service expenditure of Rs. 478 lakhs The principal revenue heads are Land Revenue 279 lakhs, Berar rent (land leased in perpetuity to the British Government and incorporated in the Central Provinces) 25 lakhs; Customs, etc.. 67 lakhs; Excise 86 lakhs; Interest 34 lakhs, PRODUCTION AND INDUSTRY.—The principal

industry of the State is agriculture, which maintains 56 9 per cent, of the population. The common system of land tenure is ryotwari. As no reliable figures are available to show the gross produce it is impossible to say what pro-portion the land revenue bears to it, but it is collected without difficulty. The principal food crops are millet and rice; the staple money crops cotton, which is grown extensively on the black cotton soils, and oil-seeds. The State is the black cotton soils, and oil-seeds. rich in minerals. The great Warangai coal measures are worked at Singareni, but the efforts to revive the historic gold and diamond mines have met with very qualified success. The manufacturing industries are consequent on the growth of cotton, and comprise three spinning and weaving mills and ginning and pressing factories in the cotton tracts.

COMMUNICATIONS .- One hundred and thirtyseven miles of the broad gauge line from Bombay to Madras traverse the State. At Wadi, on this section, the broad gauge system of the Nizam's Guaranteed State Railway takes off, running East to Warangal and South-East toward Bezwada, a total length of 310 miles. From Hyderabad the metre gauge Godaver Railway runs North-West to Manmad on the Great Indian Peninsula Company's system 391 miles. There are thus 471 miles of broad gauge and 391 of metre in the State. The Barsi Light Railway owns a short extension to

Latur. The roads are generally inferior.

EDUOATION.—The State maintains two Colleges. The Nizam College at Hyderabad (first grade) is affiliated to the Madras University of the College of The Nizam College of The Nizam College at Hyderabad (first grade) is affiliated to the Madras University of the Nizam College of the Ni turst grace; is aminated to the magras University. The Oriental College at Hyderabad prepares students for the local Moulvi and Munshi examinations. There are 28 high schools, 63 middle schools, 917 primary schools, and 24 special schools including a Medical School in the Dominions.

British Resident, The Hon, Mr. S. M. Fraser.

MYSORE.

The State of Mysore is surrounded on all sides ! by the Madras Presidency except on the north and north-west where it is bounded by the districts of Dharwar and North Canara res-pectively and towards the south-west by Coorg. It is naturally divided into two regions of distinct character; the hill country (the Mainad) on the west and the wide-spreading valleys and plains (the Maidan) on the east. The State that of the Civil and Military Station of Bangalore and a population of 5,705,359 of whom over 92 per cent. are Hindus. Kanarese is the distinctive language of the State.

HISTORY .- The ancient history of the country is varied and interesting. Tradition connects the table-land of Mysore with many a legend enshrined in the great India epics, the Ramayana and the Mahabharata. Coming down to and the Mahabharata. Coming down to historical times, the north-eastern portion of the country formed part of Asoka's Empire in the third century B. C. Mysore then came under the rule of the Andhra dynasty. From about the third to the eleventh century A. D. Mysore was ruled by three dynasties, the northwestern portion by the Kadambas, the eastern and northern portions by the Pallavas and the central and southern portions by the Gangas. In the eleventh century, Mysore formed part of the Chola dominion, but the Cholas were driven out early in the twelfth century by the Hoysalas, an indigenous dynasty with its capital at Halebid. The Hoysala power came to an end in the early part of the fourteenth century. Mysore was next connected with the Vijayanagar mysore was next connected with the vijayanagar Empire. At the end of the fourteenth century, Mysore became associated with the present ruling dynasty. A first tributary to the dominant empire of Vijayanagar, the dynasty attained its independence after its downfall in 1565. In the latter part of the eighteenth century, the real sovereiently passed into the century, the real sovereignty passed into the hands of Haidar Ali and then his son Tippu Sultan. In 1709, on the fall of Seringapatam, Suitan. In 1709, on the fall of Setringapatani, the British Government restored the State comprised within its present limits, to the ancient dynasty in the person of Maharaja STI Krishnaraja Wadiyar Bahadur III. Owing to the insurrections that broke out in some parts of the country, the management was assumed by the British Government in 1831. In 1831, the State was restored to the dynasty in the the State was restored to the dynasty in the person of Sri Chamarajendra Wadiyar Bahadur person of Sri Chamarajendra Wadilyar Bahadur under conditions and stipulations laid down in the Instruments of Transfer. That ruler, with the assistance of Mr. (afterwards Sir K. Seshadri Iyer, K. C.S.I., as Dewan, brought Mysore to a state of great prosperity. He died in 1894 and was succeeded by the present Maharaja Sir Sri Krishnaraja Wadilyar Bahadur, G.C.S.I. who was installed in 1902. In Nowari Manaraja Sir Sir Arisunaraja waqiyar banaqur, G.C. S.I., who was installed in 1902. In November 1913, the Instrument of Transfer was replaced by a Treaty which indicates more appropriately the relation subsisting between the British Government and the State of Mysore.

ADMINISTRATION.—The city of Mysore is the capital of the State, but Bangalore City is the administrative head quarters. His Highness the Maharaja is the ultimate authority in the State and the administration is conducted in the State and the administration is conducted not classed as mills, one silk filature and one under his control, by the Dewan and three woollen mill. There are also 4 oil mills, 11

Members of the Council including the Extramembers of the counten including and hazar-ordinary Member. The Chief Court consisting of three Judges is the highest judicial tribunal in the State. A Representative Assembly meets once a year at Mysore when the Dewan places before them the annual statement of finances and the measures of the State after which representations are heard and considered. There is also a Legislative Council consisting of 25 members of whom 12 are officials, and 13 non-officials, eight elected and five nominated. The Council has recently been given the privileges of interpellation and discussion of the State budget. All the important branches of the administration are controlled by separate heads of departments. For administrative purposes, the State is divided into 8 districts and subdivided into 68 talukas, each district being under a Deputy Commissioner and District Magistrate and each taluk under an Amildar and subordi ate Magistr te. The State main-tains a military force of 3,202 including 51 in the Imperial Service Regiment (Cavalry) and 480 in the Imperial Service Transport Corps.

FINANCE.—The cash balance at the beginning of 1913-14 was Rs. 112 lakhs. Total receipts during the year were Rs. 321 lakhs and total disbursements Rs. 332 lakhs. The principal revenue heads are Land Revenue Rs. 105 lakhs; Mining Royalty and Leases Rs. 19 lakhs; Forest revenue Rs. 34 lakhs; Excise Rs. 51 lakhs and Stamps Rs. 11 lakhs. Mysore pays an annual subsidy of 35 lakhs to the British Government.

ECONOMIC CONFERENCES .- The Mysore Economic Conference was organised in June 1911 with the object of creating and keeping alive public interest in matters connected with the economic progress of the State by a frequent interchange of views and discussions among those competent to deal with them and in order to associate men of enlightenment, public spirited citizens, prominent agriculturists, merchants and others with the officers of Government in such deliberations. The Conference meets annually at Mysore during the festivities in connection with His Highness the Maharaja's birthday. It has three Central Committees dealing with questions connected with Agriculture, Education and Industries and Commerce and District Committees in the several districts.

AGRICULTURE.—Nearly three-fourths of the population are employed in agriculture and the general system of land tenure is Ryotwari.
The principal food crops are ragi, rice, jola, millets, gram and sugarcane and the chief fibres are cotton and sa-hemp. The Department of Agriculture which was recently recreasing on a large scale is popularising agriculture on scientific lines by means of demonstrations, investigations and experiments.

INDUSTRIES.—A separate department of Industries and Commerce has been greated with a view to improve the system to the control of the

with a view to improve the existing industries and to provide expert advice and other facilities for the starting of new industries in the State. The manufacturing industries include 8 cotton ginning mills, 3 cotton presses, 2 cotton mills, 21 cotton spinning and weaving establishments rice mills, 2 sugar factories, 3 brick and tiles for imparting education in agricultural, comfactories, 3 cigar factories and 3 tanneries.

Mercial and technical subjects. There are Besides, 28 mines are at work—15 for geld, 3,001 public and 2,133 private educational institutions in the State. This gives one school feet bins, a signat accorder, and a tameries. Besides, 28 mines are at work—15 for gold, 3 for magnases, 5 for chrome ore, 2 for mica and 3 for other minerals. The value of gold produced last year was nearly 323 lakhs.

BANKING .- In 1913, a State-aided BANKING.—In 1913, a State-aided bank called the Bank of Mysore was started with its head quarters in Bangalore and agencies at many of the important places in the State. Besides this there is one central Co-operative Bank started in 1908 and there are now 530 societies working.

COMMUNICATIONS.—The Railway radiates from Bangalore, various branches of the Madras and Southern Mahratta Railway running through the State. The length of the lines owned by the State and worked under contract by the Company is 411.17 miles of which 9.88 are of broad gauge and the rest metre gauge. A District Board Railway from Bowringpet to Kolar (11 miles) was opened in December 1913. Suggest other worked by the contract bereather 1913. December 1913. Several other projects have been prepared and good progress has been made on some of them.

EDUCATION.—There are two first grade colleges, the Central College at Bangalore and the Maharaja's College at Mysore, both affiliated to the Madras University. They have been efficiently equipped and organised and Honours courses in Physics and History and Economics have been recently instituted. There is also a College for women, the Maharani's Coorac. College at Mysore. Primary education has recently been made compulsory in certain Selected areas. Schools have been started C. I. E.

every 1,111 persons of the population of the State.

PLACES OF INTEREST.—Mysore City, the capital, is a modern city laid out with fine roads and suburbs. The prominent buildings are the Palace, the Chanrajendra Technical Institute, Government House, the Maharaja's college, the Maharani's College and the Oriental Library.

Bangalore, the largest city in the State and the commercial and manufacturing centre, stands on a table land, 3,000 feet above the sea and is noted for its salurious climate and luxuriant gardens. The principal places of interest are the Public Offices, the Central College buildings, the Museum, the Lal Bagh, the Indian Institute of Science and the Indian Sanskrit Institute.

The historic town of Seringapatam, the famous Jog Falls, the Kolar Gold Fields, the Sivasamudram and Belur, Somnathpur and Halebld with their temples of exquisite architecture. ture, are some of the other important places of interest in the State.

RESIDENT AND CHIEF COMMISSIONER OF COORG.—The Hon'ble Col. Sir Hugh Daly, K. C. I. E., C. S. I.

DEWAN.-M. Visvesaraya, Esq., B. A.,

BARODA.

The State of Baroda is situated partly in Gujarat and partly in Kathiawar. It is divided into four distinct blocks: (1) the southern district of Navsari near the mouth of the Tapti river, and mostly surrounded by British territory; (2) central district, North of the Nar-bada, in which lies Baroda, the capital city; (3) to the North of Ahmedabad, the district of Kadi; and (4) to the West, in the Peninsula of Kathiawar, the district of Amreli, formed of scattered tracts of land. The area of the State is 8,182 square miles: the population is over two millions, of whom over four-fifths are Hindus.

HISTORY .- The history of the Baroda State as such dates from the break-up of the Mughal Empire. The first Maratha invasion of Gujarat took place in 1705, and in this and later incursions Pilait Gaikwar, who may be considered as the founder of the present ruling family, greatly distinguished himself. Sonfamily, greatly distinguished himseir. Son-ghad was the Head-quarters till 1766. Since 1723 Pllaji regularly levied tribute in Gujarat. His son Damaji finally captured Baroda in 1734, since when it has always been in the hands of the Gaikwars; but Mughal authority in Gujarat did not end until the fall of Ahmedabad, in 1753, after which the country was divided between the Gaikwar and the Peshwa.

pute between two rival sons. He was succeeded in turn by his sons Sayaji Rao I, Fattesing Rao, Manaji Rao and Govind Rao. The last died in 1800, and was succeeded by Anand Rao. A period of political instability ensued which was ended in 1802 by the help ensue which was ended in 1802 by the help of the Bombay Government, who established the authority of Anand Rao at Baroda. By a treaty of 1805 between the British Government and Baroda, it was arranged interactive that the foreign policy of the State should be allowed the control of the state should be allowed the state should be allowed the state should be allowed the state should be allowed to the state should be allowed the state should be allowed to the state should be allowed to the state should be allowed to the state should be allowed to the state should be allowed to the state should be allowed to the stat be conducted by the British, and that all differences with the Peshwa should be similarly arranged. Baroda was a staur h ally of the British during the wars with Baji Rao Peshwa, the Pindari hordes and Holkar. But from 1820 to 1841, when Saynji Rao II was Galkwar, utilterences arose between the two Governments, which were settled by Sir James Carnac, Governor of Bomiray in 1841. Ganpat Rao succeeded Sayaji Rao in 1847. During his rule, the political supervision of Raroda was transferred to the Supreme Government. His successor Khande Rao, who ascended the Gadi in 1856, introduced many reforms. He stood by the British in the Metory. He was succeeded by his brother Malhar Rao, in 1876. Mai'har Rao was deposed in 1876 or "notorious miscondurt" and "gross misgovernment." but the suzgestion that he 1820 to 1841, when Sayaji Rao II was Gaikwar, In spite of the fact that Damaji was one of the Maratha chiefs defeated at Panipat by Ahmed had instigated the attempt to polson Col. Shah, he continued to add to his territory. He died in 1768 leaving the succession in diswith full powers in 1881.

council. executi ve ADMINISTRATION .- An consisting of the principal officers of the State, carries on the administration, subject to the control of the Maharaja, who is assisted by a Dewan and other officers. A number of departments have been formed, which are presided over by officials corresponding to those in British India. The State is divided into four prants each of which is subdivided into Mahals and Peta Mahals of which there are in all 42. Attempts have for some years are in all 42. Attempts have for some years been made to restore village autonomy, and village panchayats have been formed which form part of a scheme for local self-government. There is a Legi-lative Department, under a Legal Remembrancer, which is responsible for making laws. There is also a Legislative Council. consisting of nominated and elected members. A High Court at Baroda possesses jurisdiction over the whole of the State and hears all final appeals from the decisions of the High Court, appeals lie in certain cases, to the Maharaja, who decides them on the advice of the Hugur Nyaya Sabha. The State Army consists of 5,084 Regular forces and 3,806 Irregular forces.

FINANCE.- In 1912-13, the total receipts of the State were Rs. 221 lakhs, and the disbursethe State were Rs. 221 lakus, and the disburse-ments Rs. 180 lakus. The principal revenue heads are f.and Revenue, Rs. 116 lakus; Abkari, Rs. 19 lakus; Opium, Rs. 40 lakus, Railways, Rs. 11 lakus; Interest, Rs. 6 lakus; Tribute from other States, Rs. 5 lakus. British currency was introduced in 1901.

INDUSTRY .- Agriculture PRODUCTION AND and pasture support 63 per cent, of the people. The principal crops are rice, wheat, gram, the principal crops are true, which start, start, saturation, rapeseed, poppy, cotton, san-hemp tobacco, sugarcane, maize, and garden crops. The greater part of the State is held on ryotwari except sandstone, which is quarried at Songir, and a variety of other stones which are little Dewan,—V. P. Madhao Rao, C.I.E., I.C.S. (Offg.).

descended from a distant branch of the family, worked. There are 3) industrial or commerwas adopted as heir of Khande Rao in 1875 cial concerns in the State registered under the State Companies' Act. There are five Agriand is the present Gaikwar. He was invested State Companies' Act. There are 10 industrial or commerwas adopted as heir of Khande Rao in 1875 cial concerns in the State Companies' Act. There are 3) industrial or commerwas adopted as heir of Khande Rao in 1875 cial concerns in the State registered under the concerns in the State registered under the concerns in the State registered under the concerns in the State registered under the concerns in the State registered under the state registered under the concerns in the State registered under the concerns in the State registered under the state registered under the state registered under the state registered under the state companies' Act. There are 3) industrial or commer-Societies in Baroda.

COMMUNICATIONS .- 'The B. B. & C. I. Railway COMMUNICATIONS.—Ihe B. B. & C. I. Railway rosses part of the Navsari and Baroda prants, and the Raiputana-Malwa Railway passes through the Kadl prant. A system of branch lines has been built by the Baroda Durbar in all the four prants, in addition to which the Tapti Valley Railway and the Baroda-Godhra Chord line (B. B. & C. I.) rass through the State. The Railways constructed by the State are 369 miles in length and 152 miles are under construction. Good roads are not are under construction. Good roads are not numerous.

EDUCATION.—The Education Department controls 3,045 institutions of different_kinds, in 54 of which English is taught. The Baroda College is affiliated to the Bombay University. There are a number of high schools, technical nere are a number of high schools, technical sechools, and schools for special classes, such as the jungle tribes and unclean castes. The State is "in a way pledged to the policy of free and compulsory primary education." It maintains a system of rural and travelling libraries. Ten per cent. of the population is returned in the census as literate. Total expense on Education is about Rs. 18 lakks. expense on Education is about Rs. 16 lakhs.

CAPITAL CITY.-Baroda City with the cantonment has a population of 99,345. It contains a public park, a number of fine public buildings, palaces and offices; and it is crowded with Hindu temples. The cantonment is to the North-west of the city and is garrisoned by an infantry battalion of the Indian Army. An Improvement Further has been formed to work Improvement frust has been formed to work in Baroda City and has set itself an ambitious programme.

RULER.—His Highness Farzand-i-Khas-i-Dowlat-i-Inglishia Maharaja Sir Sayaji Rao Gaekwar Sena Khas Khel, Samsher Bahadur, G.C.S.I., Maharaja of Baroda.

Resident,-W. E. Jardine, C.I.E., I.C.S. (Offg.).

KASHMIR.

Kashmir (known to Indians as Jammu) lies | to the east of the Indus and to the west of the It is a mountainous country with just a strip of level land along the Punjab frontier, and intersected by valleys of which many are of surpassing beauty and grandeur. It may be divided physically into two areas: the northeastern comprising the area drained by the Indus with its tributaries, and the south-western, including the country drained by the Jhelum, the Kishanganga and the Chenab. The dividing ine between those two areas is the great central mountain range. The area of the State is 84,432 square miles, and the population

appeared in the 12th century. In the reign of Sikandar the population became almost entirely Mahomedan. Akbar visited the valley three times. Jehangir did much to beautify it; but after Aurageabe there was a period of disorder and decay, and by the middle of the eighteenth century the Subah of Kashmir was practically independent of Delhi. Thereafter it experienced the oppression of Afghan rule until it was the oppression of Argnan rule until it was rescued, in 1819, by an army sent by Ranjit Singh. Sikh rule was less oppressive than that of the Afghans. The history of the State as at present constituted is practically that of one man, a Dogra Rajput, Gulab Singh of Jammu. For his services the Silba the approach be 28,452 square mues, and the population man, a Dogra Rajput, Gulab Singh of Jammu-Ror his services to the Sikhs this remarkable man had been made Raja of Jammu in 1820, and he added largely to his territory by calley down to 1586, when it was conquered by Akbar. Srinagar, the capital, had by then been the British and the Sikhs, only appearing long established, though many of the fine buildings erected by early Hindu rulers had been (1846) when the British made over to him for destroyed by the Mahomedan kings who first He had to fight for the valley and subsequently lost part of his State, Glight, over which the successors had at a heavy cost to reassert their claims. His son Ranbir Singh, a model Hindu, ruled from 1857 to 1885, when he was succeeded by his eldest son Major-General H. H. Maharaja Sir Partab Singh, G.C.S.I., G.C.I.E.

ADMINISTRATION.—For some years the Maharaja took no part in the administration of the State, but since 1905 he has exercised full the state, but since 1900 he has exercised rull powers, assisted by a Chief Minister—Rai Saheb Diwan Amar Nath, C.L.E.—a Home Minister, and a Revenue Minister. The four chief executive officers are the Governors of Jammu and of Kashmir, the Wazir Wazarat of Glight and the Wazir Wazarat of Ladakh. The real administrative power lies with the petty subor-dinate officers (tahsildars) who exercise revenue, civil, and criminal jurisdiction with regular stages of appeal: but distance and the absence of easy communications are practical checks on the use or abuse of appeals. The British Resi-dent has his headquarters at Srinagar; there is also a Political Agent at Gilgit responsible to the Government of India for the administration of the outlying petty States; and a British Officer is stationed at Leb to assist in the supervision of Central Asian trade. In the Dogras the State has splendid materials for an Army, which con-sists of 6,961 troops, of whom 3,370 are main-tained as Imperial Service troops.

FINANCE.—The financial position of the State is strong, and it has more than 46 lakhs invested in Government of India securities. revenue last year was 93 lakhs, the chief items being land revenue, forests, customs and octroi

PRODUCTION AND INDUSTRY.—The population is pre-eminently agricultural and pastoral. The system of land tenure has been described as "ryotwari in ruins," great complexity existing owing to the fact that there is no local law of owing to the fact that there is no local law or rent and revenue. The principal food crop is rice, maize, cotton, saffron, tobacco, hops (autumn crops) and wheat, barley, poppy, beans (spring crops) are also grown. Sheep are largely kept. The State forests are extensive and valuable. Exploration for minerals has not been attempted on sound principles. Vast fields of friable, dusty coal have been found. Gold has been found at Gulmarg and Sapphires in Padar. The industries of manufacture are chiefly connected with sericulture, (the silk fila- pherson.

ture at Srinagar, the largest in the world, was destroyed by fire in July, 1912) oil-pressing and the manufacture of wine. The woollen cloth, shawls, and wood carving of the State are fámous.

COMMUNICATIONS.—The State contains only 16 miles of railway, on the Tawi-Suchetgarh branch of the N.-W. Railway. The Jhelum is the only navigable river. At present there is much activity in improving road communications, but in many parts of the country wheeled traffić is unknown.

PUBLIC WORKS.-In 1904, a flood spill channel above Srinagar was constructed with a view to minimising the constant risk of floods; and it was hoped that the danger would be still for the reduced by the carrying out of a scheme for lowering a part of the bed of the Jhelum, which has since been taken in hand. Good progress has been made with irrigation; but the most important schemes of recent years the most important schemes of recent years have been those for an electrical power station on the Jhelum River, and for a Railway into K2shmir. It was proposed to supply from this power station electrical energy for various State schemes (including the Jhelum dredging scheme) and for private enterprise and pos-sibly for working the proposed Kashmir Rail-way. The works were completed about 1907, and the scheme according to the latest reports is working very satisfactorily. The proposal for a railway to Kashmir had been under discussion for many years, the nature of the country making the question of route a difficult one. In 1905, a decision was taken in favour of a In 1905, a decision was taken in tayour of a line from Srinagar via the Jhelum Valley and Abbottabad, but the project has remained in abeyance pending the consideration of further schemes, among which are proposals for lines of ropeway from Jammu to Srinagar and from Srinagar to the western borders via the Jhelum Valley.

EDUCATION.—In educational matters Kashmir is the most backward tract in the whole of India. In the State as a whole only 2 in every 100 persons can read and write. The number of educational institutions has increased from 45 in 1891 to 379 in 1911.

Resident: H. V. Cobb.

Political Agent, at Gilgit, Major A. D. Mac-

BALUCHISTAN AGENCY.

In this Agency are included the Native States of Kalat, Kharan and Las Bela. The Khan of Kalat is head of the Baluchistan tribal chiefs whose territories are comprised under the followming divisions:—Jhalwan, Sarawan, Makran, Kachhi, Domki-Kaheri-Umrani and Nasirabad Niabat. These districts form what may be termed Kalati Baluchistan, and occupy an area of 71,593 square miles. The inhabitants of the country are either Brahuis or Baluchis, both country are either Branus or Bauchis, boom being Mahomedans of the Sunni sect. The country is sparsely populated, the total number being about 470,336. It derives its chief importance from its position with regard to Afghanistan on the north-western frontier of British India. The relations of Kalat with the British Government are governed by two treaties, of 1854 and 1876, by the latter of which the

Khan agreed to act in subordinate co-operation anan agreed to act in subordinate co-operation with the British Government. There are, however, agreements with Kalat in connection with the construction of the Indo-European telegraph, the cession of jurisdiction on the railways and in the Bolan Pass, and the permanent leave of Quarter Nucleic and Nuclei nent lease of Quetta, Nushki and Nasirabad. The Khan is assisted in the administration of the The Khan is assisted in the administration of the State by a Political Adviser lent by the British Government. The Governor-General's Agent in Baluchistan conducts the relations between the Government of India and the Khan, and exercises his general political supervision over the district. The revenue of the State is about Rs. 7,65,000. The present Khan is, His Highness Amir Sir Mahumud Khan of Kalat, G.C.I.E. He was born in 1864. Kharan extends in a westerly and south-

miles, it has a population of 19,610 and an annual average revenue of about Rs. 90,000.

The Chief of Kharan, Sardar Sir Nauroz Khan, K.C.L.E., died in June 1919, and was succeeded by his son, Sardar Yakub Khan. The attitude of the new chief towards Government, and his administration generally were unsatisfactory. In 1911, he was murdered by the sepoys of his guard. Some trouble was caused by an uncle of the murdered chief, who declared himself Chief, but the Govern ment of halfs thoulty recognized the gracerica ment of India finally recognised the succession of a son, Mir Habibulla Khan, and approved measures for the administration of the State

during his minority.

Las Bela is a small State occupying the valley and delta of the Purali river, about 50 miles west A. B. Dew.

westerly direction from near Nushki and Kalat of the Sind boundary. Area 6,441 square miles; to the Persian border. Its area is 14,210 square population 56,109, chiefly Sunni Mahomedans, miles, it has a population of 19,610 and an estimated revenue about Rs. 2,25,000. The Chief of Las Bela, known as the Jam. is bound by agreement with the British Government to conduct the administration of his State in accordance with the advice of the Governor-General's Agent. This control is exercised through the Political Agent in Kalat. Sentences of death must be referred for confirmation. The Jam also employs an approved Wazir, to whose advice he is subject and who generally assists him in the transaction of State husiness.

> Agent to the Governor-General for Baluchistan: Lieut.-Col. C. Archer.

Political Agent, Kalat and Bolan Pass: Major

RAJPUTANA AGENCY.

Rajputana is the name of a great territorial maintained by the preparation and supply of circle with a total area of about 130,462 square material substances; personal and domestic miles, which includes 18 Native States, two chiefships, and the small British province of Ajmer-Merwara. It is bounded on the west by Ajmer-Merwara. It is bounded on the west by Sind, on the north-west by the Punjab State of Bahawalpur, on the north and north-east by the Punjab, on the east by the United Pro-vinces and Gwalior, while the southern boundary runs across the central region of India in an irregular zig-zag line. Of the Native States 17 are Rajput, 2 (Bharatpur and Dholpur) are Jat, and one (Tonk) is Mahomedan. The chief administrative control of the British district is vested ex-officio in the political officer, who holds the post of Governor-General's Agent for the supervision of the relations between the several Native States of Rajputana and the Government Native States of Rajputana and the Government of India. For administrative purposes they are divided into the following groups:—Alwar Agency; Bikanir Agency, Eastern Rajputana Agency, States (Bharatpur, Dholpur, Karauli); Haraoti and Tonk Agency, 3 States (principal States Bundi and Tonk); Jaipur Residency, 3 States (principal States, Jaipur); Kotah and Jhalawar Agency, 2 States; Mewar Residency; Southern Rajputana States Agency, 4 States (principal State, Banswara); Western Rajputana States Agency, 3 States (principal States, Marwar and Sirohi).

The Aravalli Hills intersect the country almost from end to end. The tract to the north-

almost from end to end. The tract to the northwest of the hills is, as a whole, sandy, ill-watered and unproductive, but improves gradually from being a mere desert in the far west to comparatively fertile lands to the north-east. To the south-east on the Aravali Hills lie higher and more fertile regions which contain extensive hill ranges and which are traversed by considerable

COMMUNICATIONS .- The total length of railways in Rajputana is 1.576 miles, of which 739 are the property of the British Government. The Rajputana-Malwa (Government) runs from Ahmedabad to Bandikul and from there bran-ches to Agra and Delhl. Of the Native State railways the most important is the Jodhpur-Bikaner line from Marwar Junction to Hyderabad (Sind) and to Bikaner.

INHABITANTS .- Over 50 per cent. of the population are engaged in some form of agriculture; about 20 per cent. of the total population are

material substances; personal and domestic service provides employment for about 5 per cent. and commerce for 21 per cent. of the population. The principal language is Rajasthani. tation. Ine principal language is Rajastnani. Among castes and tribes, the most numerous are the Brahmans, Jats, Mahajans, Chamars, Rajputs, Minas, Gujars, Bhils, Malis, and Balais. The Rajputs are, of course, the aristocracy of the country, and as such hold the land to a very large action of the country. land to a very large extent, either as receivers of rent or as cultivators. By reason of their position as integral families of pure descent, as a landed nobility, and as the kinsmen of ruling chiefs, they are also the aristocracy of India; and their social prestige may be measured by observing that there is hardly a tribe or clan (as distinguished from a caste) in India which does not claim descent from, or irregular connection with, one of these Rajput stocks.

The population and area of the States are as follows:-

		Area in	Population
Name of Stat	e.	square	in
		miles.	1911.
Mewar Residency		1	
Udaipur .		12,953	1,293,776
Banswara .		1,946	165,463
Dungarpur .		1,447	159,192
Partabgarh .		886	62,704
Western States Res	idency—		l '
Jodhpur _		34,963	2,057,553
Jaisalmer		16,062	88,311
Sirohi		1,964	189,127
Jaipur Residency-	_		
Jaipur .		15,579	2,636,674
Kishangarh .		858	87,191
_ Lawa		19	2,564
Haraoti-Tonk Ager	ıcy—		,
Bundi .		2,220	218,730
Tonk		1,114	303,181
Shahpura		405	
Eastern States Age	псу—		·
Bharatour		1,982	626,665
Dholpur		1,155	270,978
Karauli		1,242	156,786
Kotah-Jhalawar A	gency-	1	· .
Kotah		5,684	639,089
Jhalawar	• •	810	96,271
Bikaner	••	23,311	
Alwar	• • • • •	3,141	791,688

Udaipur State, (also called Merwar) was founded in about 1559. The capital city is Udaipur, which is beautifully situated on the slope of a low ridge, the summit of which is crowned by the Maharajah's palace, and to the north and west, houses extend to the banks of a beautiful piece of water known as the Pichola Lake in the middle of which stand two island palaces. It is situated near the terminus of the Udaipur-Chitor Railway, 697 miles north of Bombay. The present ruler is His Highness Maharajadhiraja Maharana Sir Fatch Singh Bahadur, G.S.S.I., G.C.I.E., who was born in 1849 and succeeded in 1884. He is the head of the Scesodia Rajputs. The administration is Seesodia Rajputs. carried on by the Maharana, assisted by two ministerial officers who, with a staff of clerks, form the chief executive department in the State. The revenue and expenditure of the State are now about 261 and 26 lakhs a year respectively. Udaipur is rich in minerals which are little worked. Its archaeological remains are numerous, and stone inscriptions dating from the third century have been found.

Banswara State, the southernmost in Rajputana, became a separate State about 1527. Towards the end of the eighteenth century Banswara became more or less subject to the Marathas, and paid tribute to the Raja of Dhar. In 1812 the Maharawal offered to of Dhar. become tributary to the British Government on condition of the expulsion of the Marathas, but no definite relations were formed with him till the end of 1818. The present ruler is His Highness Maharawal Sri Prithi Singh Bahadur, who was born in 1888 and succeeded his father in 1913. The normal revenue is about 4 lakhs and the expenditure about 3 lakhs.

Dongarpur State, with Banswara, formerly comprised the country called the Pagar. It was invaded by the Mahrattas in 1818. As in other States, inhabited by hill tribes, it became necessary at an early period of British supremacy to employ a military force to coerce the Bhills. The State represents the Gadhi of the eldest branch of the Sisodiyas and dates its separate existence from about and dates its separate existence from about the close of the 12th Century, when Mahup, the rightful heir to the Chittor Throne, migrated to these parts. The present Chief is His Highness Rai Rayan Maharawal Shri Sir Bijeysinghji Saheb Bahadur, K. C. I. E., born in 1887 and succeeded in 1898. During his minority the State was administered by a Political Officer, a chief Executive Officer, and a Consultative Council of two. No railway line crosses the territory, the nearest railway station, Udaipur, being 60 miles distant. Re-venue about 3 lakhs: expenditure 1.4 lakhs.

Partabgarh State, formerly called the Kanthal, was founded in the sixteenth century formerly called the by a descendant of Rana Mokal of Mewar. town of Partahgarh was founded in 1698 by Partab Singh. In the time of Jaswant Singh (1775-1844), the country was overrun by the Marathas, and the Maharawal only saved his State by agreeing to pay Holkar a tribute of Salim Shahi Rs. 72,720, in lieu of Rs. 15,000 formerly paid to Delhi. The first connexion of the State with the British Government was formed in 1804; but the treaty then entered

was taken under protection, was made in 1818. The tribute to Holkar is paid through the British Government, and in 1904 was converted to Rs. 36,369 British currency. The present ruler is His Highness Mahrawal Sir Raghunath Singh Bahadur, K.C.I.E., who was born in 1859 and succeeded in 1890. The State is governed by the Mahrawal with the help of a Minister, and, in judicial matters, of a committee of eleven members styled the Raj Sabha. Revenue 1.7 lakhs: expenditure 1.4 lakhs. The financial administration is now under the direct supervision of the State.

Jodhpur State, the largest in Rajputana, also called Marwar, consists largely of desolate, sandy country. The Maharaja of Jodhpur is the head of the Rathor Clan of Rajputs and claims descent from Rama the deified king of Ajodhya. The earliest known king of the clan lived in the sixth century from which time onwards their history is fairly clear. The foundation of Jodhpur dates from about 1212, and the foundations of Jodhpur City were laid in 1459 by Rao Jodha. The State came under British protection in 1818. In 1839 the British Government had to interfere owing to misrule, and the same thing occurred again in 1868. Jaswant Singh succeeded in 1873 and reformed the State. His son Sardar Singh was invested with powers in 1898, the minority rule having been carried on by his uncle Maharaja Partab Singh. The State is governed by the Maharaja, two ministers, and a Consultative Council. Revenue 56 lakhs: expenditure 36 lakhs.

Jaisalmer State is almost entirely a sandy waste forming part of the great Indian Desert. The Chiefs of Jaisalmer belong to the Jadon clan and claim descent from Krishna. Jaisalmer City was founded in 1166, and the State was taken under British protection in 1818. In 1844. after the British conquest of Sind the forts of Shahgarh, Garsia, and Ghotaru, which had formerly belonged to Jaisalmer, were restored to the State. The present Chief is His Highness Maharajadhiraja Maharawal Shri Jawaharsinghii Bahadur. Revenue about four lakhs.

Sirohi State is much broken up by hills of which the main feature is Mount Abu, 5,650 feet. The Chiefs of Sirohi are Deora Rajputs, a branch of the famous Chauhan clan which furnished the last Hindu kings of Delhi. The present capital of Sirohi was built in 1425. The city suffered in the eighteenth century from the wars with Jodhpur and the depredations of wild Mina Officer tribes. Jodhpur claimed suzerainty over Sirohi but this was disallowed and British protection was granted in 1853. The present ruler is His Highness Maharajah Dhiraj Maharao Sir Kesri Singh Bahadur, G.C.I.E., K.C.I.E. The State is ruled by the Maharao with the assistance of a Diwan and other officials. Revenue about 7 lakhs; expenditure 6 lakhs.

Jaipur State is the fourth largest in Rajputana. It consists, for the most part, of level and open country. The Maharaja of Jaipur is putana. It consists, for the most part, of lever and open country. The Maharaja of Jaipur is the head of the Kachwaha clan of Rajputs, which claims descent from Kusa, the son of Rama, king of Ajodhya, and the hero of the famous epic poem the Ramayana. The dynasty in Eastern Rajputana dates from about the middle of the twelfith century, when Amber was made the capital of a small State. The Chiefs of that State acquired fame as generals into was subsequently cancelled by Lord Corn- was made the capital of a small State. The walls, and a fresh treaty, by which the State Chiefs of that State acquired fame as generals

under the Mughals in later centuries, one of the best known being Sawai Jai Singh in the eighteenth century who was remarkable for his scientific knowledge and skill. It was he who moved the capital from Amber and built the present city of Jaipur and elevated the State above the principalities around. On his death a part of the State was annexed by the Jats of Bharatpur and internal disputes brought Jaipur to great confusion. British protection was extended to Jaipur in 1818, but the State continued to be disturbed and a Council of Regency was appointed, which governed up to 1851, when Maharaja Ram Singh assumed full powers. He nominated as his successor Kaim Singh who succeeded in 1880, under the name of Sawai Madho Singh II, and is the present ruler. He was born in 1861, and, in consideration of his youth, the administration was at first conducted by a Council under the joint presidency of the Maharaja and the Political Agent. He was invested with full powers in 1882. In 1887, his salute was raised from 17 to 19 guns as a personal distinction, followed in 1896 by two additional guns. In 1888 he was created a G.C.S.I. In 1901 a G.C.I.E., and in 1903 a G.C.V.O. In 1904 he was made honorary colonel of the 13th Rajputs, and in 1911 a Major General. In 1908 he puts, and in 1911 a major teneral. In 1908 he was presented with the Honorary degree of LL.D. of Edinburgh University and in 1912, made a Donat of the Order of the Hospital of St. John of Jurusalem. Among important events of His Highness's rule may be mentioned the raising of the Imperial Service Transport Corps in 1889-90; the construction of numerous invitation profits hereits and of numerous irrigation works, hospitals and dispensaries; and the gift of 20 lakhs as an endowment to the Indian People's Famine Relief Trust. Jaipur City is the largest town in Raiputana and is one of the few eastern cities laid out on a regular plan. It contains, in addition to the Maharaja's Palace, many fine buildings. The administration of the State is carried on by the Maharaja assisted by a Council of ten members. The military force consists of an Imperial Service Transport Corps which has twice served in Frontier campaigns and about 5,000 infantry, 700 cavalry and 860 artillerymen. The normal revenue is about 65 lakhs; expenditure about 59 lakhs.

Kishangarh State is in the centre of Rajputana and consists practically of two narrow strips of land separated from each other; the northern mostly sandy, the southern generally succeeded by adoption in 1870 and received flat and fertile. The Chiefs of Kishangarh full powers in 1876. In addition to holding belong to the Rathor clan of Rajputs and are Shahpura by grant from the British Gervment descended from Raja Udai Singh of Jodhpur, the Raja Dhiraj possesses the estate of Kachhola whose second son founded the town of Kishangarh in 1611. The State was brought under British protection in 1818. After various disputes necessitating British mediation, the State entered into good hands and was well ruled during the latter part of the nineteenth century. The present ruler is Major His Highness Maharajadhiraja Sir Madan Singh Bahadur, K. O. S. I., K.C.I.E. Umdai Bajhai-Buland Makan, who was born in 1884 and was invested with powers in 1905. He administers the State with the help of a Council of three members. Ravenue 5.7 lakhs: Expenditure 4.6 lakhs.

Lawa State, or takurat, of Rajputana is a separate chiefship under the protection of the British Government and independent of any British Government and independent of any in the following year the capital was captured Native States. It formerly belonged to Jaipur by Lord Combermere. The present chief is a

and then became part of the State of Tonk. In 1867, the Nawab of Tonk murdered the Thakur's 1867, the Nawab of Tork murdered the Thakur's uncle and his followers, and Lawa was then raised to its present State. The Thakurs of Lawa belonged to the Naruka sept of the Kachwaha Rajputs. The present Thakur, Mangal Singh, was born in 1873, and succeeded to the estate in May, 1892. Revenue about Rs. 11,000. Bundi State is a mountainous territory in the south-east of Rajputana. The Chief of the Mars ext of the great of the War east Bundi is the head of the Hara sept of the great clan of Chauhan Raiputs and the country occupied by this sept has for the last five or six centuries been known as Haraoti. The State was founded in the early part of the fourteenth cen-tury and constant feuds with Mewar and Malwa followed. It threw in its lot with the Mahomedan emperors in the sixteenth century. In later times it was constantly ravaged by the Marathas and Pindaries and came under British protection in 1818 at which time it was paying tribute to Holkar. The present ruler of this State—which is administered by the Maharao Raja and a Council of 5 in an old-fashioned but popular manner—is His Highness Maharao Raja Sir Raghubir Singh Bahadur, G.C.L., G.C.V.O., K.C.S.I. He was born in 1869 and succeeded in 1889. Revenue about 6 lakhs: Expenditure 5.6 lakhs.

Tonk State-Partly in Rajputana and partly in Central India, consists of six districts separated from each other. The ruling family belongs to the Pathans of Afghans of the Buner tribe. The founder or the dynasty was Amir Khan, a General in the army of Holkar at the end of the eighteenth century. He received a conditional guarantee of the lands he held under the Afghans from Holkar in 1817. His son was deposed in 1867 owing to misrule. The present ruler of the State is His Highness Nawab Sir Muhammad Ibrahim Ali Khan Bahadur, G.C.I.E. The administration is conducted by the Nawab and a Council of four members: but the Political Agent takes an active part in the guidance of the administration and the finances—owing to the indebtedness of the State. Revenue 11 lakhs: Expenditure 9 lakhs.

Shahpura Chiefship is a small pastoral ate. The ruling family belongs to the Seesodia clan of Rajputs. The Chiefship came into existence about 1629, being a grant from the Emperor Shah Jahan to one Sujan Singh. The present Chief is Sir Nahar Singh, K.C.I.E. who in Udaipur for which he pays tribute and does formal service as a great noble of that State. Revenue 3 lakhs: Expenditure 2.6 lakhs.

Bharathus State consists largely of an immense alluvial plain, watered by the Banganga and other rivers. It passed into the hands of Mahomed Ghori at the end of the twelfth century and for 500 years was held by whatever dynasty ruled in Delhi. The present ruling family are Jats, of the Sinsinwar clan, who trace their pedigree to the eleventh century. Bharathur sided with the Marathas in the war Bharatpur sided with the Marathas in the war of 1804 and was unsuccessfully besieged by Lord Lake. Owing to the appearance of an usurper operations against it were resumed in 1825, and

minor, Maharaja Sawai Kishna Singh Bahadur, | ruler was deposed for misgovernment in 1896 who was born in 1899 and succeeded in the following year, his father, Ram Singh, having been deposed for the murder of one of his ser-The administration is carried on by a Council of four members. Revenue 31 lakhs: Expenditure 28 lakhs.

Dholpur State, the easternmost State in Rajputana, has changed hands an unusual number of times. It was occupied by the British in 1803 and restored to the Gwalior Chief who formerly owned it, but by a fresh arrangement of 1805 it was constituted a State with other districts and made over to Maharaj Rana Kirat Singh, in exchange for his territory of Gohad which was given up to Sindhia. The ruling family are Jats of the Bamraolia clan, the latter name being derived from a place near Agra where the family held land in the twelfth century. The present chief—who is assisted in the administration by three Ministers—is H. H. Maharaj Rana Udaibhan Singh Lokinder Bahadur. He was born in 1893 and succeeded in 1911. Revenue 15 lakhs: Expenditure 12 lakhs.

Karauli State is a hilly tract in Eastern Raiputana, of which the ruler is the head of the Jadon clan of Rajputs who claim descent from Krishna and were at one time very powerful. On the decline of the Mughal power the State was subjugated by the Marathas, but by the treaty of 1817 it was taken under British protection. Its subsequent history is of interest chiefly for a famous adoption case, in 1852. The present ruler is H. H. Maharaja Sir Banwar Pal Deo, G.C.I.E., who was born in 1864, installed in 1860 and a present rule who was born in 1864, installed in 1860 and a present rule who was born in 1864, installed in 1860 and a present which was born in 1864, installed in 1860 and a present which was born in 1864, installed in 1860 and a present which was born in 1864, installed in 1860 and 1 1889, and invested with powers in 1889. He is assisted by a council of five members. Revenue 5 lakhs: Expenditure 4.4 lakhs.

Kotah State belongs to the Hara sept of the clan of Chauhan Rajputs, and the carly history of their house is, up to the 17th century, identical with that of the Bundl family from which they are an offshoot. Its existence as a separate State dates from 1625. It came under British protection in 1817, but a dispute as to the succession made armed intervention necessary in 1921 when the Maharao was defeated at the battle of Mangrol. This dispute (due to the fact that an arrangement had been made by which one person—Zalim Singh—was recognized as the titular chief and another—Umeed Singh-as the guaranteed actual ruler) broke out again in the thirties when it was decided with the consent of the Chief of Kotah to dismember the State and create a new principality of Jhalawar as a separate provision for the descendants of Zalim Singh. The present ruler is H. H. Maharao Sir Umed Singh Bahadur, G.O.S.I., G.O.I.E., who was born in 1873 and invested with full powers in 1896. In administration has in acceptable. tration he is assisted by a Diwan. The most important event of his rule has been the restoration, on the deposition of the late chief of the Jalawar State, of 15 out of the 17 districts which had been ceded in 1838 to form that principality. Revenue 31 lakhs: Expenditure 26 lakhs.

Jhalwar State (for history see under Kotah) consists of two separate tracts in the south-east of Rajputana. The ruling family south-east of Rajputana. The ruling family belongs to the Jhala clan of Rajputs. The last

part of the State was reassigned to Kotah, and Kunwar Bhawani Singh, son of Thakur Chhatarsal of Fatehpur, was selected by Government to be the Chief of the new State. He was born in 1874 and was created a K.C.S.I. in 1908. He is assisted in administration by a Council, and has done much to extend education in the State. Revenue 4 lakhs.

Bikaner State, the second largest in Rajputana, consists largely of sandy and ill-watered land. It was founded by Bika, a Rathor Rajput, the sixth son of a Chief of Marwar, in the 15th century. Rai Singh, the first Raja, was one of Akbar's most distinguished generals, and built the main fort of Bikaner. Throughout the 18th century there was constant fighting between Bikaner and Jodhpur. In 1818 the Maharaja invited the assistance of British troops to quell a rebellion, and subsequently a special force had to be raised to deal with the dacoits on the southern borders of the State. The Thakurs of the State continued to give trouble up to the eighties. The present chief is Colonel H. H. Maharajah Sir Ganga Singh Bahadur, G.C.S.I., G.C.L.E., A.D.C. to the King, who was born in 1880 and invested with full powers in 1898. He raised an Imperial Service Camel Corps which served in China and Somaliland, and His Highness served in the former campaign himself, being mentioned in des-patches. In 1900 he was awarded the first class patches. In 1900 he was awarded the first class Kaisar-i-Hind medal for the active part he took in relieving the great famine of 1899-1900. is an honorary LLD. of Cambridge. In administration His Highness is assisted by five secretration his highness is assisted by his series to each of whom are alloted certain departments; and there is a council of five members which is primarily a judicial body, but is consulted in matters of importance. The normal revenue is Rs. 26 lakes and the avenualities 21 lakes, there are no account of the council to th expenditure 21 lakhs: there are no debts. A coal mine is worked at Palana, 14 miles south of the capital.

Alwar State is a hilly tract of land in the East of Rajputana. Its chiefs belong to the Lalawat branch of the Naruka Rajputs, an offshoot from the Kachwaha Rajputs, of whom the Maharaja of Jajpur is the head. The State the Maharaja of Jaipur is the head. The State was founded by Pratab Singh, who before his death in 1791 had secured possession of large portions of the Jaipur State. His successor sent a force to co-operate with Lord Lake in the war of 1803 and an alliance was concluded with him in that year, when the boundaries of the State as now recognised were fixed. Various rebellions and disputes about succession mark the history of the State during the earlier part of the nineteenth century. The present chief, H. H. Maharaja Sir Sawai Jai Singh Bahadur, K.C.S.I., K.C.I.E., who was born in 1882, succeeded his father in 1892 and was invested with powers in 1903. He carries on the administration with the assistance of a Council of three members and various heads of departments. The normal revenue and expenditure are about Rs. 32 lakhs a year. The State maintains an imperial service regiment of cavalry, another of infantry, and an irregular force. The late Maharaja was the first chief in Rajputana to offer (in 1888) aid in the defence of the Empire. The capital is Alwar on the Rajputana-Malwa Railway,

RAIPUTANA.

Agent to Governor-General.—Sir E. G. Colvin.

Resident—Lieut.-Col. J. L. Kaye.

JAIPUR.

Resident—Lieut.-Col. W. C. R. Stratton.

EASTERN RAIPUTANA STATES.

Political Agent—Lieut.-Col. A. D'A. G. Bannerman.

WESTERN RAJPUTANA STATES.

Resident—Lieut.-Col. C. J. Windham.

HARAOTI AND TONK.

Political Agent—Lieut. H. B. Peacock.

KOTA AND JHALAWAR.

Political Agent.—Major H. B. Peacock.

CENTRAL INDIA AGENCY.

Central India is the name given to the country occupied by the Native States grouped together under the supervision of the Political Officer in charge of the Central India Agency. These States lie between 21° 24' and 26° 32' N. lat. and between 74° 0' and 83° 0' E. long. The British districts of Jhansi and Lalitpur divide the agency into two main divisions-Bundelkhand and Baghelkhand lying to the east, and Central India proper to the west. The total area covered is 78,772 square miles, and the population (1911) amounts to 9,3,980. The great majority of the people are Hindus. principal States are eight in number-Gwalior, Indore, Bhopal, Rewa, Dhar, Jaora, Datia and Orchal of which two, Bhopal and Jaora, are Mahomedan and the rest are Hindu. Besides these there are a multitude of petty States held by their rulers under the immediate guarantee of the British Government, but having feudal relations with one or other of the larger States. The total number of States amounts to 153. For administrative purposes they are divided into the following groups: Baghelkhand Agency, 12 States (principal State Rewa): Bhopal Agency, 19 States (principal Bhopal) State Bhopawar Agency, 21 States (principal State Dhar); Bundelkhand Agency, 22 States (principal States, Datia and Orcha); Agency, 32 States (principal State, Gwalior); Indore Residency, 9 States (principal State, Indore); Malwa Agency, 38 States (principal State, Jaora). The Agency may be divided into three natural divisions, the plateau, lowlying, and hilly. The plateau tract includes the Malwa plateau, the Highland tract stretching from the great wall of the Vindhyas to Marwar, the land of open rolling plains . The lowlying tract embraces Northern Gwalior and stretches across into Bundelkhand and Baghelkhand up to the Kaimur Range. The hilly tract lies along the ranges of the Vindhyas and the Satpuras. There agriculture is little practised, the inhabitants being mostly members of the wild tribes. The territories of the different States are much intermingled, and their political relations with the Government of India and each other are very varied. Eleven Chiefs have direct treaty engagements with the British Government.

The following list gives the approximate size population and revenue of the eight principal States above mentioned:—

Name.		Area in square miles.	Popu- lation.	Revenue.
Gwalior	::	25,133	3,102,279	Rs. lakhs.
Indore		9,506	1,007,856	140
Bhopal		6,902	730,383	70
Rewah		13,000	1,514,848	30
Dhar		1,783	154,070	53
Jaora		568	75,951	9
Datia		911	154,603	8
Orcha		2,079	330,032	9

Gwalior.—The house of Sindhia traces its descent to a family of which one branch held the hereditary post of patel in a village near Satara. The head of the family received a patent of rank from Aurangzebe. The founder of the Gwalior House was Kanoji Sindhia who is said to have been a personal attendant on the Peshwa Baji Rao. In 1726 together with Malhar Rao Holkar, the founder of the house of Indore, he was authorised by the Peshwa to collect revenues and he fixed his headquarters at the ancient city of Ujjain, which became the capital of the Sindhia dominions. Gwalior subsequently played a leading part in shaping the history of India. The reverses which Sindhia's troops met with at the hands of the British in 1778 and 1780 led to the treaty of Salbail (1782), which made the British arbiters in India and recognised Sindhia as an independent Chief and not as a vassal under the Peshwa. Subsequently Sindhia's military power, developed by the French Commander DeBoigne, was completely destroyed by the British victories of Ahmednagar, Assaye, Asagrarh and Laswari.

The present ruler is His Highness Mahadhao Rao Sindhia, G.C.Y.O., G.C.S.I., A.D.C. to the King. He succeeded in 1886 and obtained powers in 1894. In 1901 he went to China during the war; he holds the rank of honorary degree of LL.D., Cambridge. The administration is controlled by the Maharaja assisted by the Sadr Board of seven members.

The northern part of the State is traversed by the G. I. P. Railway and two branches run from Bhopai to Ujain and from Bha to Baran. The Gwalior Light Railway runs for 185 miles from Gwalior to Bhind. The main industries are connected with cotton which is ginned and pressed in factories at many places. The State maintains three regiments of Imperial Service Cavairy, two battalions of Imperial Service Cavairy of Imperial Service Cavairy of Imperial Service Cavairy of Imperial Service Cavairy of Imperial Service Cavairy of Imperial Service Cavairy of Imperial Service Cavairy of Imperial Se

capital city, is two miles to the south of the tory and the chief, who had previously rejected ancient city and the fort of Gwalior. Annual overtures for an alliance, was called upon to expenditure 133 lakhs.

Indore. - The Holkars of Indore belong to the shepherd class, the founder of the house, Malhar Rao Holkar, being born in 1693. His soldierly qualities brought him to the front under the Peshwa, who took him into his service and employed him in his conquests. When the Maratha power was broken at the battle of Panipat, in 1761. Malhar Rao had acquired vast territories stretching from the Deccan to the Ganges. He was succeeded by a lunatic son, who again was succeeded by his mother, Ahlya Bai, whose administration is still looked upon as that of a model ruler. Disputes as to the succession and other causes weakened this powerful State, and, when it assumed a hostile attitude on the outbreak of war in 1817 between the British and the Peshwa, Holkar was compelled to come to terms. The Treaty of Mandaser in 1818 still governs the regulations existing between the State and the British Government. In the mutiny of 1857 when Holkar was unable to control his troops he personally gave every possible assistance to the authorities at Mhow.

In 1903 Sivaji Rao abdicated in favour of his son, His Highness Maharaja Tukoji Rao Holkar, the present ruler, who was born in 1890, and was formally invested with ruling powers in November 1911. In the administration His Highness is assisted by his Chief Minister and a Council of 5 Ministers. The State Army consists of 519 Imperial Service Troops and 1.629 State forces. The capital is Indore City on the Ajmer-Khandwa Section of the Rajpuntana-Malwa Railway. The ordinary revenue for 1914-15 is estimated at Rs. 85,49,400 and the ordinary expenditure estimated for that year is about the same amount.

Rhonal.-Bhopal State was founded by Dost Muhammad Khan, an Afghan from Tirah, who went to Delhi in 1708 in search of employment. Obtaining a lease of the Berasia Perganas he extended his dominions, assumed independence, and adopted the title of Nawab. Of subsequent rulers the most noticeable is Mamulla, a lady of remarkable power, who controlled the State for 50 years. In the early part of the nineteenth century the State successfully withstood the combined attacks of Gwalior and Nagpur, and, by the agreement of 1817, Bhopal undertook to assist the British with a contingent force and to co-operate against the Pindari bands.

The present Begum is Her Highness Nawab Sultan Jahan, G.C.S.I., G.C.I.E., C.I., who succeeded in 1901 and personally conducts the administration of her State assisted by her eddest son, Nawab Mahomed Nasrulla Khan. The State Army consists of 1,744 men, including a regiment of Imperial Service Cavalry commanded by a son of the present ruler. The capital is Bhopal City, at the Junction of the Midland Section of the G. I. P. Railway and the Bhopal-Ujiain Railway.

Rewah,-This State lies in the Baghelkhand Agency, and falls into two natural divisions separated by the scarp of the Kaimur range. Its Chiefs are Baghel Rajputs descended from the Solanki clan which ruled over Gujrat from the tenth to the thirteenth century. In 1812 a body The State has a normal revenue of seven lakhs of Pindaries raided Mirzapur from Rewah terri- and the expenditure is about 6.5 lakhs. The

overtures for an alliance, was called upon to accede to a treaty acknowledging the protection acceed to a creaty acknowledging the protection of the British Government. During the Mutiny, Rewah offered troops to the British, and for his services then, various parganas, which had been seized by the Marathas, were restored to the Rewah Chief. The present chief is H. H. Maharaja Sir Venkat Raman Singh, c.C.S.I., who was born in 1876. He is assisted in the administration by two Commissioners, one for revenu matters and one for judicial. The State force consist of about 1,700 men. The State is famous for its archæological remains and is rich in minerals, coal being mined at Umaria. The average expenditure is Rs. 11 lakhs.

Dhar.—This State, under the Bhopawar Agency, takes its name from the old city of Dhar, long famous as the capital of the Paramara Rajputs, who ruled over Malwa from ninth to the thirteenth century and from whom the present chiefs of Dhar-Ponwar Marathas-claim descent. In the middle of the 18th century the Chief of Dhar, Anand Rao, was one of the leading chiefs of Central India, sharing with Holkar and Sindhia the rule of Malwa. But in 1819, when a treaty was made with the British, the State had become so reduced that it consisted of little more than the capital. The ruler is H. H. Raja Sir Udaji Rao Ponwar, K.c.S.I., who was born in 1886, and has control of all civil, judicial, and ordinary administrative matters. There are 22 feudatories, of whom 13 hold under a guarantee from the British Government. The average expenditure is about 8 lakhs.

Jaora State.-This State is in the Malwa Agency and has its head quarters at Jaora town. The first Nawab was an Afghan from Swat, who had come to India to make his fortune, found employment under the freebooter Amir Khan, employment under the freebooter Amir Khan, and obtained the State after the treaty of Mandasor in 1817. The present chief is H. H. Sir Mahomed Iftikar Ali Khan, K.O.I.E., who was born in 1883 and is an honorary major in the Indian army. The soil of the State is among the richest in Malwa, being mainly of the best black cotton variety, bearing excellent crops of poppy. The average expenditure is four lakbs.

Datia State.-The chiefs of this State, in the Bundelkhand Agency, are Bundela Rajputs of the Orchha house. The territory was granted by the chief of Orchha to his son Bhagwan Rao in 1626, and this was extended by conquest and by grants from the Delhi emperors. The present chief is H. B. Maharaja Lokendra Gobind Singh Bahadur, who was born in 1886 and succeeded in 1907. His predecessor had succeeded as a minor in 1857, and the early part of his administration was disturbed by constant disputes with the thakurs of Baroni as to the succession.

Orchha State.—The chiefs of this State are Bundela Rajputs claiming to be descendants of the Gaharwars of Benares. It was founded the Gaharwars of Benares. It was founded as an independent State in 1048 A. D. It ontered into relations with the British by the treaty made in 1812. The present ruler is His Highness Sir Pratap Singh, 6.0.5.L, 6.0.1.E., who was born in 1854 He has the title of Saramad-i-Rajaha-i-Bundelkhand Maharaja Mahendra Sawai Bahadur. The State has a normal revenue of seven lakhs

State Army consists of 1,350 men. The capital is Tikamgarh: Orchha, the old capital, has fallen into decay but is a place of interest on account of its magnificent buildings of which the finest were erected by Bir Singh Deo, the most famous ruler of the State (1605-1627).

Agent to Governor-General-O. V. Bosanquet.

INDORE. Resident-C. L. S. Russell.

BHOPAL. Political Agent-W. S. Davis.

BUNDELKHAND.

Political Agent-Lieut.-Col. P T. A. Spence.

BAGHELKHAND, Political Agent—Lieut.-Col. S. H. Godfrey. BHOPAWAR.

Political Agent-L. M. Crump.

Sikkim.

Sikkim is bounded on the north and north-east by Tibet, on the south-east by Bhutan, on the south by the British district of Darjiling, and on the west by Nepal. The population consists of the races of Lepcha and Bhoti, and the Nepali tribe, Limbu. It forms the direct route to the tribe, Limbul. It folins the under code of the Chumbi Valley in Tibet. The main axis of the Himalayas, which runs east and west, forms the boundary between Sikkim and Tibet. The Singalila and Chola ranges, which run southwards from the main chain, separate Sikkim from Nepal on the west, and from Tibet and Bhutan on the east. From the eastern flank of the Singalila range rise the great snow peaks of Kinchinjunga (28,146 feet), one of the highest mountains in the world; it throws out a second spur terminating at Tendong. The Chola range which is much lottler than that of Singalila, leaves the main chain at the Dongkya mountain.

Tradition says that the ancestors of the rajas of Sikkim originally came from the neighbour-hood of Lhasa in Tibet. The State was twice invaded by the Gurkhas at the end of the eighteenth century. On the outbreak of the Nepal War in 1814, the British formed an alliance with the Raja of Sikkim and at the close of the war the Raja was rewarded by a considerable accession of territory. In 1835 the Raja granted the site of Darjiling to the British and received Rs. 3,000 annually in lieu of it. This grant was stopped and a part of the State was annexed for the seizure and detention of Dr. Campbell, the Superintendent of Darjiling, and Dr. Hooker, the famous naturalist, in 1849. The State was previously under the Government of Bengal, but was brought under the direct supervision of the Government of India in 1906. The State is thinly populated, the area being 2,818 square miles, and the population 87,920, chiefly Buddhists and Hindus. The most important crop is matze. There are several traderoutes through Sikkim from Darjiling District into Tibet; but owing partly to the natural difficulties of the country, and partly to the jealousy of the Tibetan authorities, trade over these roads has never been fully developed. In the convention of 1890 provision was made for the opening of a trade route: but the results were disappointing, and the failure of the Tibetans to fulfil their obligations resulted in 1904 in the despatch of a mission to Lhasa, where a new convention was signed. Trade with the British has largely increased in recent years, and in | They are of no military value.

1911-12 reached total value of 24 lakhs. number of good roads have been constructed number of good roads have been constructed in recent years. The present ruler is His Highness Maharajah Sir Thotub Namgye, E.O.I.E., who was born in 1860 and succeeded in 1874. The Political Officer stationed at Gangtok advises and assists the Maharajah and his Council, but no rules have been laid down for the civil and criminal administration. The average revenue is Rs. 2,85,000. Political Officer in Sikkim: C. A. Bell.

Bhutan.

Bhutan extends for a distance of approximately 190 miles east and west along the southern slopes of the central axis of the Himalayas, adjacent to the northern border of Eastern Bengal and Assam. Its area is 18,000 square miles and its population, consisting of Buddhists and Hindus, has been estimated at 300,000. The country formerly belonged to a tribe called Tek-pa, but was wrested from them by some Tibetan soldiers about the middle of the seventeenth century. British relations with Bhutan commenced in 1772 when the Bhotias invaded the principality of Cooch Behar and British aid was invoked by that State. After a number of mids by the Bhutanese into Assam, an envoy (the Hon. A. Eden) was sent to Bhutan, who was grossly insulted and compelled to sign a treaty surrendering the Duars to Bhutan. On his return the treaty was disallowed and the Duars annexed. This was followed by the treaty of 1865, by which the State's relations with the Government of India were satisfactorily regulated. The State formerly received an allowance of half a lakh a year from the British Govern-ment in consideration of the cession in 1865 of some areas on the southern borders. This allowance was doubled by a new treaty coulded in January 1910, by which the Bhutanese Government bound itself to be guided by the advice of the British Government in regard to its external relations, while the British Government undertook to exercise no interference in the internal administration of Bhutan. occasion of the Tibet Mission the of 1904, the Bhotias gave strong proof of their friendly attitude. Not only did they consent to the survey of a road through their country to Chumbi, but their ruler, the Tongsa Penlop, accompanied the British troops to Lhass, and assisted in the negotiations with the Tibetan authorities. For these services he was made a K.O.I.E., FOT these services no was made a K.O.I.E., and he has since entertained the British Agent hospitably at his capital. The ruler is now known as H. H. the Maharaja of Bhutan, Sir Uggen Wangchuk, K.O.S.I., K.O.I.E. At the head of the Bhutan Government, there are nominally two supposes authorities; the are nominally two supreme authorities; the Dharma Raja, known as Shapting Ronipcohe, the spiritual head; and the Deb or Depa Raja, the temporal ruler. The Dharma Raja is regarded as a very high incarnation of Buddba, far higher than the continuous incornations in far higher than the ordinary incarnations in Tibet, of which there are several hundreds. On the death of a Dharma Raja a year or two is allowed to elapse, and his reincarnation then takes place, always in the Choic, or royal family of Bhutan.

Cultivation is backward and the chief crop is maize. The Military force consists of local levies under the control of the different chiefs.

Nepal.

The kingdom of Nepal is a narrow tract of country extending for about 520 miles along the southern slope of the central axis of the Himalayas. It has an area of about 54,000 square miles, with a population of about 5,000,000, chiefly Hindus. The greater part of the country is mountainous, the lower slopes being culti-vated. Above these is a rugged broken wall of rock leading up to the chain of snow-clad peaks which culminate in Mount Everest (29,002 feet) and others of slightly less altitude. The country before the Gurkha occupation was split up into several small kingdoms under Newar kings. The Gurkhas under Prithvi Narayan Shah overran and conquered the different kingdoms of Patan, Kathmandu, and Bhatgaon, and other places during the latter half of the 18th century and since then have been rulers of the whole of Nepal. In 1846 the head of the Rana family obtained from the sovereign the perpetual right to the office of Prime Minister of Nepal, and the right is still enjoyed by his descendant. In 1850 Jung Bahadur paid a visit to England and was thus the first Hindu Chief to leave, India and to become acquainted with the power and resources of the British nation. The rela-tions of Nepal with the Government of India are regulated by the treaty of 1816 and subsequent agreements, but the political status of Nepal is difficult to define. It may be said to stand intermediate between Afghanistan and the Native States of India. The point of resemblance to Afghanistan is in the complete freedom which Nepal enjoys in the management of its internal affairs, while in both countries foreign relations are controlled by the Indian Govern-ment. The analogy to the Native States is that, by treaty, Nepal is obliged to receive a British Resident at Katmandu and cannot take Europeans into service without the sanction of the Indian Government. But, for the reasons above given, the functions of the Resident differ from those that are commonly exercised by Residents at Native Courts.

Nepal is also brought into relations with China, C.V.O., C.I.E.

whose nominal suzerainty she acknowledged, It is an influence that weighs light, and consists in the despatch, every five years, of a mission with presents to the ruling Emperor. This mission, though it may at one time have carried a certain amount of political significance, has now mainly a trading aspect. Its expenses are paid by the Chinese from the time it crosses the Nepalese frontier, and a brisk trade is carried on throughout the journey.

From the foregoing account of the history of Nepal it will be seen that the Government of the country has generally been in the hands of the Minister of the day. Since the time of Jung Bahadur this system of government has been clearly laid down and defined. The sovereign, crearly laid down and denned. The sovereign, or Maharaj Dhiraj, as he is called, is but a dignified figure-head, whose position can best be likened to that of the Emperor of Japan during the Shogunate. The real ruler of the country is the Minister who, while enjoying. country is the himster who, while enjoying.
complete monopoly of power, couples with his
official rank the exalted title of Maharaja.
Next to him comes the Commander-in-Chief,
who ordinarily succeeds to the office of Minister.
The present Minister at the head of affairs of
Nepa is Maharaja Sir Chandra Shum Shere Jung Bahadur Rana, G.C.B., G.C.S.I., G.C.Y.O, D.C.L. and Honorary Major-General in the British Army, He has been Prime Minister and Marshal of Nepal since June, 1901.

Rice, wheat and maize form the chief crops in the lowlands. Mineral wealth is supposed to be great, but, like other sources of revenue, has not been developed. Communications in the State been developed. Communications in the State are primitive. The revenue is about two crores of rupees per annum. The standing army is estimated at 45,000, the high posts in it being filled by relations of the Minister. The State is of considerable archaeological interest and many of the sites connected with scenes of Buddha's life have been identified in it by the remains of inscribed pillars.

Resident: Licut.-Col. J. Manners Smith, V. C.

NORTH-WEST FRONTIER STATES.

The native states of the North-West Frontier Provinces are Amb, Chitral, Dir, Nawaga (Bajaur), and Phulera. The total area is about 7,704 square miles and the population, mainly Mahomedan, is 1,622,094. The average annual revenue of the first four is about Rs. 4,65,000; that of Phulera is unknown.

Amb.—Is only a village on the western bank of the Indus in Independent Tanawala.

Chitral.-Runs from Dir to the south of the Hindu-Kush range in the north, and has an area of about 4,500 square miles. The ruling dynasty has maintained itself for more than three hundred years, during the greater part of which the State has constantly been at war with its neighbours. It was visited in 1885 by the Lockhart Mission, and in 1889, on the establishment of a political agency in Gligit, the ruler of Chitral received an annual subsidy from the British Government. That subsidy was increased two years latter on condition that the ruler, Amam-ul-Mulk, accepted the advice of the British Government in all matters connected with down to the Dush Khel Country, following the

foreign policy and frontier defence. His sudden death in 1892 was followed by a dispute as to the succession. The eldest son Nizam-ul-Mulk was recognised by Government, but he was mur-dered in 1895. A religious war was declared against the infidels and the Agent at Gilgit, who had been sent to Chitral to report on the situation, was besieged with his escort and a force had to be despatched (April 1895) to their relief.

The three valleys of which the State consists are extremely fertile and continuously cultivated. The internal administration of the country is conducted by the Mehtar, and the foreign policy is regulated by the Political Agent.

Dir.-The territories of this State, about 5,000 square miles in area, include the country drained by the Panjkora and its affluents down to the junction of the former river with the Bajaur or Rud, and also the country east of this from a point a little above Tirah in Upper Swat ing allegiance from the petty chiefs of the clans. Dir is mainly held by Yusufzai Pathans, the old non-Pathan inhabitants being now confined to the upper portion of the Panikora Valley known as the Bashkar.

Bajaur.—Nawagai is a tract of country included in the territories collectively known as Bajaur which is bounded on the north by the Panjkora river, on the east by the Utman Khel and Mohmand territories and on the west by the watershed of the Kuna river which divides it

right bank of the Swat river throughout. The from Afghanistan. The political system, if it Khan of Dir is the overlord of the country exactparty government, subject to the control of the Khan of Nawagai, who is nominally the heredi-tary chief of all Bajaur. Under him the country is divided into several minor Khanates, each governed by a chieftain, usually a near relative of the Khan. But virtually the authority of the chieftains is limited to the rights to levy tithe, or ushar, when they can enforce its payment, and to exact military service if the tribesmen choose to render it.

Major W. J. Keen.

NATIVE STATES UNDER LOCAL GOVERNMENTS.

The Madras Presidency includes 5 Native States covering an area of 10,087 square includes 51 miles. Of these the States of Travancore and Cochin represent ancient Hindu dynasties. Pudukattai is the inheritance of the chieftain called the Tondiman. Banganapalle and Sandur, two petty States, of which the first is ruled by a Nawab, lie in the centre of two British districts.

Name.	Area sq. miles.	Popula- tion.	Approx. Revenue in lakhs. of rupee.
Travancore Cochin . Pudukottai . Banganapaile . Sandur	7,129 1,361 1,178 255 161	3,428,975 918,110 411,878 39,356 13,517	128 47 16 2·8 1·7 1·2

Travancore-This State occupies the south-Travancore—this scale occupies one south-west portion of the Indian Peninsula, forning an Irregular triangle with its apex at Cape Comorin. The early history of Travancore is in great part traditional; but there is little doubt that H. H. the Maharaja is the representative of the Chera dynasty, one of the three great Hindu dynasties which exercised sovereignty at one time in Southern India. The ignty at one time in Southern India. The petty chiefs, who had subsequently set up as independent rulers within the State, were all subdued, and the whole country, included within its present boundaries, was consolidated and brought under one rule, by the Maharaja Marthanda Varma (1729-58). The English Cart activitied of Anisone a few miles to the north Marthanda varma (1722-58). The English first settled at Anjengo. a few miles to the north of Trivandrum, and built a factory there in 1684. In the wars in which the East India Company were engaged in Madura and Tinnevelly, in the middle of the 18th century, the Travancore State gave assistance to the British authorities. Travancore was reckoned as one of the staunchest allies of the British Power and was accordingly included in the Treaty made in was accordingly included in the treaty made in 1784 between the East India Company and the Sultan of Mysore. To protect the State from possible inroads by Tippu, an arrangement was come to in 1788 with the East India Company, and in 1795 a formal treaty was concluded, by which the Company agreed to protect Travance and foreign enamies. In 1805 the core from all foreign enemies. In 1805 the annual subsidy to be paid by Travancore was fixed at 8 lakhs of rupees.

Sir Balarama Varma, G.C.S.I., G.C.I.E., who was born in 1857 and succeeded in 1885. The government is conducted in his name with the assistance of a Dewan (M. Krishnan Nair). The work of legislation is entrusted to a Council brought into existence in 1888., An assembly known as the Sri Mulam Popular Assembly meets once a year, when its members are able to bring suggestions before the Dewan. The State supports a military force of 1,474 men. Education has advanced considerably in recent years and the State takes a leading place in that respect. The principal food grain grown is rice, but the main source of agricultural wealth is the coconnut. Other crops are pepper, areca-nut, jack-fruit and taploca. Cotton weaving and the making of matting from the coir are the chief industries. The State is well provided with roads, and with a natural system of back-waters, besides canals and rivers navigable for country crafts. Two lines of railways intersect the country, the Cochin-Shoranore in the north-west and the Tinnevelly. Quilon passing through the heart of the State. A third line, from Quilon to Trivandrum, is in process of construction. The capital is Trivandrum.

Political Agent, A. T. Forbes.

Cochin.—This State on the west coast of India is bounded by the Malabar District of the Madras Presidency and the State of Travancore. Very little is known of its early history. According to tradition, the Rajas of Cochin hold the territory in right of descent from Cheraman Perumal, who governed the whole country of Kerala, including Travancore and Malabar, as Viceroy of the Chola Kings about the beginning of the ninth century, and afterwards estab-lished himself as an independent Ruler. In 1502, the Portuguese were allowed to settle in what is now British Cochin and in the following year they built a fort and established commercial relations in the State. In the earlier wars with the Zamorin of Calicut, they assisted the Rajas of Cochin. The influence of the Portu-guese on the west coast began to decline about the latter part of the seventeenth century, and in 1663 they were ousted from the town of Cochin by the Dutch with whom the Raja entered into friendly relations. About a cennd in 1795 a formal treaty was concluded, by hich the Company agreed to protect Travanier from all foreign enemies. In 1895 the intuits subsidy to be paid by Travancore was teed at 8 lakis of rupees.

The present ruler is His Highness Maharaja

subsequently to his son, Tippu Sultan. treaty was concluded in 1791 between the Raja and the East India Company, by which His Highness arreed to become tributary to the British Government for his territories which were then in the possession of Tippu, and to pay a subsidy:

The present ruler is His Highness Sir Sri Rama Varma, G.O.S.I., G.O.I.E., Raja of Cochin, who was born in 1852 and succeeded in 1895. The administration is conducted under the control of the Raja whose chief Minister and Executive Officer is the Dewan (J. W. Bhore) The forests of Cochin form one of its most valuable assets. They abound in teak, ebony, blackwood, and other valuable trees. Rice forms the staple of cultivation. Cocoanuts are largely raised in the sandy tracts, and their products form the chief exports of the State. Communications by road and back-waters are good, and the State owns a line from Shoranore to Emakulam, the capital of the State, and a Forest Steam Tramway used in developing the forests. The State supports a force of 274 men.

Political Agent, A. T. Forbes.

Pudukottai.-This State is bounded on the north and west by Trichinopoly, on the south by Madura and on the east by Tanjore. In early times a part of the State belonged to the Chola Kings and the southern part to the Pandya Kings of Madura. Relations with the English began during the Carnatic wars. Dur-ing the siege of Trichinopoly by the French in 1752, the Tondiman of the time did good service to the Company's cause by sending them provisions, although his own country was on at Visions, attriougn his own country was on at least one occasion ravaged as a consequence of his fidelity to the English. In 1756 he sent some of his troops to assist Muhammad Yusuf, the Company's sepoy commandant, in settling the Madura and Tinnevelly countries. Subsequently he was of much service in the wars with Haidar Ali. His services were rewarded by a grant of territory subject to the conditions that the district should not be alienated (1806). Apart from that there is no treaty or arrangement with the Raja. The present ruler is Sri Brihadamba Sir Marthanda Bhairava Tondiman Bahadur, G.O.I.E., who is eighth in descent from the founder of the family He succeeded in 1886. The Collector of Trichinopoly is ex-officio Political Agent for Pudukottal The administration of the State, under the Raja, is entrusted to a State Council of three members, a Superintendent (Mr. J. T. Gwynn, 1.0.8.) Dewan, and Councillor. The various departments are constituted on the British India

A | model. The principal food crop is rice. forests, which cover about one-seventh of the State, contain only small timber. There are no large industries. The State is well provided with roads, but Pudukottai is the only town in the State.

Political Agent, A. L. Vibert.

Banganapalle.—This is a small State in two detached portions which in the eighteenth century passed from Hyderabad to Mysore and back again to Hyderabad. The control over it was ceded to the Madras Government by the Nizam in 1800, and subsequently passed through a long period of mismanagement ending in the removal of the Nawab Fateh Ali Khan in 1905. The present ruler is Nawab Sayid Gulam Ali Khan, a Mahomedan of the Shia Sect. who administers the State with the assistance of the Dewan, Khaja Akbar Hussain. The chief food grains grown are rice, wheat and cholam. Roads have recently been constructed and the capital, Banganapalle, is being gradually opened up with broad thoroughfares. The Nawab pays no tribute and maintains no military force. Sericulture, lac cultivation and weaving indus-tries have lately been started in the State by the Superintendent of Industries.

Political Agent, H. A. B. Vernon, I.C.S. Sandur.—This is a small State surrounded by the District of Bellary the Collector of which is the Political Agent. Its early history dates from 1728 when it was first seized by an ancestor of the present Raja, a Maratha named Sidhoji Rao. It subsequently became a vassal to the Peshwa, after whose downfall a formal title for the State was granted by the Madras Government to one Siva Rao. The present ruler is H. H. Raja Srimant Venkata Rao, who was born in 1891. The State is administered by the Raja and the Dewan (M. R. R. A. Subraya Modilar Avergal). The Raja pays no tribute and maintains no military force. The most important staple crop is cholam. Teak and sandal wood are found in small quantities in the forests.

The minerals of the State possess unusual interest. The hematites found in it are prohably the richest ore in India. An outcrop near the southern boundary forms the crest of a ridge 150 feet in height, which apparently consists entirely of pure steel grey crystalline hematite (specular iron) of intense hardness. Some of the softer ores used to be smelted, but the industry has been killed by the cheaper English iron. Manganese deposits have also been found in three places, and in 1911-12 over 83,000 tons of manganese ore were transported by one company.

Political Agent, A. F. G Moscardi.

UNDER THE GOVERNMENT OF BOMBAY.

very various units counted as Native States in India are under the Government of Bombay. The characteristic feature of the Bombay States is the great number of petty principalities; the peninsula of Kathiawar alone contains nearly two hundred separate States. The recognition of these innumerable jurisdictions is due to the circumstance that the early

More than a half of the total number of the | quasi-sovereign status. As the rule of succession by primogeniture applies only to the larger principalities, the minor states are continually suffering disintegration. In Bombay, as in Central India, there are to be found everywhere the traces of disintegration and disorder left by the eighteenth century. In no part of India is there a greater variety of principalities. The bulk of them are of modern origin, Bombay administrators were induced to treat the majority having been founded by Marathas the de Jacko exercise of civil and criminal jurisin the general scramble for power in the middle diction by a landholder as carrying with it a of the eighteenth century, but several Rajput

houses date from earlier times. Interesting traces of ancient history are to be found at traces of ancient history are to be found a Sachin, Janjira and Jafarabad, where chiefs of a foreign ancestry, descended from Abya-sinian admirals of the Deccan feets, still remain. A few aboriginal chiefs, Bhila or Kolis, exercise an enfeebled authority in the Dangs and the hilly country that fringes the Mahi and the Narbada rivers.

The control of the Bombay Government is exercised through Political Agents, whose positions and duties vary greatly. In some of the more important States their functions are confined to the giving of advice and the exercise of a general surveillance; in other cases they are invested with an actual share in the administration; while States whose in the administration; while States whose rulers are minors—and the number of these is always large—are directly managed by Government officers. Some of the States are subernment omeers. Some of the States are suo-ordinate to other States, and not in direct relations with the British Government; in these cases the status of the feudatories is usually guaranteed by Government. The powers of the chiefs are regulated by treaty or custom, and range downwards to a mere right to collect revenue in a share of a village, without criminal or civil jurisdiction, as in the case of the petty chiefs of Kathiawar.

The native States in the Bombay Presidency number 377. Area 65,761 square miles. Pop-ulation (1911) 7,411,675. They are divided for administrative purposes into the following agencies:—Bijapur Agency, 2 states; Cutch Agency, 1 state; Dharwar Agency, 1 state (Savanur); Kaira Agency, 1 state (Cambay); Kathiawar Agency, 187 states (principal states, Kathiawar Agency, 187 states (principal states, Bhavnagar, Dhrangadhra, Gondal, Junagadh, Nawanagar); West Khandesh Agency (20 states); Kolaba Agency, 1 state (Janjira), Kolhapur Agency, 9 states (principal state; Kolhapur, with 9 feudatory states); Mahi Kantha Agency, 51 states (principal state; Idar); Nasik Agency, 1 state (principal state; Palanpur Agency, 17 states (principal state; Palanpur); Poona Agency, 1 state (Bhor); Rewa Kantha Agency, 62 states (principal State, Rajpipla); Satara Agency, 2 states; Savantvadi Agency, 1 state; Sholapur Agency, 1 state; Sukkur Agency, 1 state (Khairpur); Surat Agency, 17 states; Thana Agency, 1 state (Janhar). The table below gives details of the area, etc. of the more important States:—

State.		Area in miles, sq.	Popula- tion,	Approx. Revenue in lakhs of rupees.
Bhavnagar		2,860	441,367	47
Cutch	٠.	7,616	513,429	25
Dhrangadhra		1,156	79,142	12
Gondal	٠.	1,024	161,916	15
Idar		1,669	202,811	6
Junagadh		3,284	434,222	26
Khairpur		6,050	223,788	15
Kolhapur		3,165	833,441	57
Navanagar		3,791	349,400	22
Palanpur		1,750	226,250	5
Rajpipla		1,517	161,588	9

gral part of the State of Jath to which it will lapse on the demise of the present Rani, the widow of the late chief. On the annexation of Satara, in 1849, Jath and Daphlapur, like other Satara Jagirs, became feudatories of the British Government. The latter has more than once interfered to adjust the pecuniary affairs of the Jath Jagir, and in consequence of numerous acts of oppression on the part of the then ruler, was compelled to assume direct management from 1874 to 1885. The Chief of Jath, who belongs 1874 to 1885. The Chief of Jath, who belongs to the Maratha caste, is a Treaty Chief and ranks as a first class Sardar. He is styled Deshmukh. He holds a sanad of adoption, and the succession follows the rule of primogeniture. The small State of Daphlands and the succession of the control o pur is managed by a Rani, aided by her karbhari. The gross revenue of the Agency is about 3 lakhs chiefly derived from land revenue. The Jath State pays to the British Government Rs. 6,400 per annum in lieu of a horse contingent and Rs. 4,840 on account of Sardeshmukhi rights.

Political Agent, Jahangir Kaikhosru Navroji Kabraji, Collector of Bijapur.

-The State is bounded on the north and north-west by Sind, on the east by the Palanpur Agency, on the south by the Peninsula of Kathiawar and the Gulf of Cutch and the south-west by the Indian Ocean. Its area, exclusive of the great salt marsh called the Rann of Cutch, is 7,616 square miles. The capital is Bhuj, where the ruling Chief (the Rao) His Highness Maha Rao Sri Khengarji Savai Bahadur, G.C.I.E., resides. From its isolated position, the special character of its people, their peculiar dialect, and their strong feeling of personal loyalty to their ruler, the peninsula of Cutch has more of the elements of a distinct national-ity than any other of the dependencies of Bombay. The earliest historic notices of the State occur in the Greek writers. Its modern history dates from its conquest by the Sind tribe of Samma Rajputs in the fourteenth cen-The section of the Sammas forming the ruling family in Cutch were known as the Jadejas or 'children of Jada.' The British made a treaty with the State in 1815, but three years later the conduct of the ruler made it necessary to occupy the capital and depose him. There is a fair proportion of good arable soil in Cutch, and wheat, barley and cotton are cultivated. Both iron and coal are found but are not worked. Cutch is noted for its beautiful embroidery and silverwork and its manufactures of silk and cotton are of some importance. Trade is chiefly carried by sea. The ruling chief is the supreme authority. A few of the Bhayads are invested with jurisdictional powers in varying degrees; in that your preferes and over their own degrees in their own Estates and over their own ryots. A notable fact in connection with the administration of the Cutch State is the number and position of the Bhayad. These are Rajput nobles forming the brotherhood of the Rao-They were granted a share in the territories of the ruling chief as provision for their maintenance Navanagar . 3,791 349,400 22
Palanpur . 1,750 226,250 5 5
Rajpipla . 1,517 161,588 9

Bijapur Agency.—This comprises the Satara jaghir of Jath and the small state of Daphlapur (total area 980 square miles), the latter (which has an area of 96 square miles) being an inteabout 1,000 in addition to which, there are some irregular infantry, and the Bhayads could furnish on requisition a mixed force of four thousand.

Political Agent, Major R. S. Pottinger.

Dharwar Agency—This comprises only the small State of Savanur. The founder of the reigning family who are Mahomedans of Pathan origin was a jagirdar of Emperor Aurangzebe. At the close of the last Maratha War the Nawab of Savanur whose conduct had been excep-tionally loyal was confirmed in his possessions by the British Government. The State pays no tribute. The principal crop is cotton. The area is 70 square miles and population 17,909. The revenue is about one lakh. The present chief is Abdul Majidkhan Dilerjang Bahadur.

Political Agent, J. A. G. Wales, I. C. S.

Kaira Agency.-This includes only the State of Cambay at the head of the Gulf of the same name. Cambay was formerly one of the chief ports of India and of the Anhilvada Kingdom. At the end of the thirteenth century it is said to have been one of the richest towns in India; at the beginning of the sixteenth century also it formed one of the chief centres of commerce in Western India. Factories were established there by the English and the Dutch. It was established a distinct State about 1730, the founder of the present family of Chiefs being the last but one of the Mahomedan Governors of Gujarat. The present ruler is His Highness Nawab Jaffar Ali Khan, who is a Mahomedan of the Shiah Sect, and was born in 1848 and succeeded in 1880. He pays a tribute and succeeded in 1880. He pays a tribute of Rs. 21,924 to the British Government. Wheat and cotton are the principal crops. There is a broad gauge line from Cam-There bay to Petlad, connecting with the B. B. & C. I. Railway at Anand. The Nawab exercises full jurisdiction within the State. Revenue is about 51 lakhs. The area of the State is 350 square miles, population 72,656.

Political Agent, J. Gosal, I. C. S.

Kathiawar Agency.- Kathiawar is peninsula or western portion of the Province of Gujarat, Bombay. Its extreme length is about 220 miles and its greatest breadth about 165 miles, the area being 23,445 square miles. Of this total about 20,882 square miles with a population of 2,496,057 is the territory forming the Political Agency subordinate to the Government of Bombay, established in 1822, having under its control nearly 200 separate States whose chiefs divided amongst them-selves the greater portion of the peninsula. The Kathlawar Agency is divided for administrative purposes into four prants or divisions— Jhalawar, Halar, Sorath and Gohelwar—and the States have since 1863 been arranged in seven classes. Since 1882 political authority in Kathiawar has been vested in the Political Agent subordinate to the Government of Bombay. In 1903 the designations of the Political Agent and his Assistants were changed to those of Agent to the Governor and Political Agents of the prants. Before 1863, except for the criminal court of the Agent to the Governor, established in 1831, to aid the Darbars of the several States in the trial of the State several States in the trial of heinous crimes, a good and safe harbour for shipping and earnies interference with the judicial administration a good and safe harbour for shipping and earnies

of the territories was diplomatic, not magisterial; and the criminal jurisdiction of the first and second-class chiefs alone was defined. In 1863, however, the country underwent an important change. The jurisdiction of all the chiefs was classified and defined: that of chiefs of the first and second classes was made plenary: that of lesser chiefs was graded in a diminishing scale. The four Political Agents of the prants resident in the four divisions of Kathiawar, now exercise residuary jurisdiction with large civil and criminal powers. Each Political Agent of a prant has a deputy, who resides at the headquarters of the prant or division, and exercises subordinate civil and criminal powers. Serious criminal cases are committed by the deputies to the court of the Agent to the Governor, to whom also civil and criminal appeals lie. The Agent to the Governor is aided in this work by an officer known as the Political Agent and Judicial Assistant, who is usually a member of the Indian Civil Service. Appeals from his decisions lie direct to the Governor of Bombay in Council in his executive capacity. An officer styled the Superintendent of Managed Estates. who is ex-officio an Assistant Political Agent, and two Deputy-Assistants also help the Agent.

Agent of the Governor in Kathiawar, J. Sladen.

Bhavnagar .- This State lies at the head and west side of the Gulf of Cambay. The Gonel Rajputs, to which tribe the Chief of Bhavnagar belongs, are said to have settled in the country about the year 1260, under Sajakji from whose three sons—Ranoji, Saranji and Shahji—are descended respectively the chiefs of Bhavnagar, Lathi and Palitana. An intimate connexion was formed between the Bombay Government and Bhavnagar in the eighteenth century when the chief of that State took pains to destroy the pirates which infested the neighbouring seas. The State was split up when Gujarat and Kathlawar were divided between the Peshwa and the Gaekwar; but the various claims over Bhavnagar were consolidated in the hands of the British Government in 1807. The State pays an annual tribute of Rs. 128,060 to the British Government, Rs. 3,581-8-0 as Peshkashi to Baroda, and Rs. 22,588 as Zortabli to Juna gadh. H. H. Maharaja Raol Shri Bhavsinghij, K.O.S.I., is the supreme and final authority in the State. The general administration is conducted under His Highness's directions by the Dewan (Tribhuvandas K. Trivedi, Acting Dewan), who is assisted by the Naib Dewan, the Personal Assistant and the Judicial Assistant. One noteworthy feature in the administration is the complete separation of judicial from executive functions and the decentralisation of authority is another. The authority and powers of all the Heads of Departments have been clearly defined, and each within his own sphere is independent of the others, being directly responsible to the Dewan.

The chief products of the State are grain, cotton and salt. The chief manufactures are oil, copper and brass vessels and cloth. The Bhavnagar State Railway is 205 miles in length, and the management of it undertakes also the working of the Dhrangadhra State Railway for

on an extensive trade as one of the principal markets and harbours of export for cotton in Kathiawar. Bhavnagar supports 300 Imperial Service Lancers and 282 Infantry or Armed Police.

Dhrangadhra State is an uneven tract of land (intersected by small streams) which consists of hilly and rocky ground where stone is quarried. The chief of Dhrangadhra belongs to the Jhala tribe, originally a sub-division of the Makvana family. This tribe is of great antiquity, and is said to have entered Kathiawar from the north, establishing itself at at Battle 1th Abredche Netrict threes. first at Patri in the Ahmedabad District, thence moving to Halvad and finally settling in its present seat. The greater part of this terri-tory was probably annexed at one time by the Mahomedan rulers of Gujarat. Subsequently, during the reign of the Emperor Aurangzebe (1658-1707), the sub-division of Halvad, then called Muhammadnagar, was restored to the Jhala family. The petty States of Limbdl, Wadhwan, Chuda, Sayla, and Than-Lakhtar in Kathiawar are offshoots from Dhrangadhra; and the house of Wankaner claims to be descended from an elder branch of the same race. His Highness the Maharana Shri Ghanshyamsinhji is the ruling chief, who is the head of the Jhala Rajput family. The State pays a tri-bute of Rs. 40,671 to the British Government, and Rs. 4,006 to Junagadh State. The administration is conducted under the Maharaja's directions by the Dewan (Mansiah S. Jhala). The principal crops are cotton and grain. The Capital town is Dhrangadhra, a fortified town, 75 miles west of Ahmedabad.

Gondal State.—The Chief of Gondal is a Rajput of the Jadeja stock with the title of Thakur Sahib, the present Chief being Sir Bhagyat Sinhji, G.O.LE. The early founder of the State, Kumbhoji I., had a modest estate of 20 villages. Kumbhoji II "the most powerful Chief of the House, widened the territories to almost their present limits by conquest; but it was left to the present ruler to develop its It was left to the present ruler to develop in resources to the utmost, and in the words of Lord Reay, Governor of Bombay, by its "importance and advanced administration" to get it recognised as a First Class State. The State pays a tribute of Rs. 1,10,721. The chief products are cotton and grain and the chief panual. actures are cotton and woollen fabrics and gold embroidery. Gondal has always been pre-eminent amongst the States of its class for the vigour with which public works have been prosecuted, and was one of the earliest pioneers of railway enterprise in Kathlawar, having initiated the Dhasa-Dhoraji line: it subsequently built other lines in partnership with other Native States in Kathlawar. The Ca-pital is Gondal, a fortified town on the line between Rajkot and Jetalsar.

Junagadh State.—This State has an area of 3,284 square miles and is bounded on the north by the Barda and Halar and on the west and south by the Arabian Sea. The river Saraswati, famous in the sacred annals of the

Ahmedabad, Junagadh was a Rajput State, ruled by Chiefs of the Chudasama tribe. During. the reign of the Emperor Akbar it became a dependency of Delhi, under the immediate authority of the Mughal Viceroy of Gujarat about 1735, when the representative of the Mughals had lost his authority in Gujarat, Sher Khan Babi, a soldier of fortune, expelled the Mughal Governor, and established his own rule. The ruler of Junagadh first entered into engagements with the British Government in 1807. The Chief bears the title of Nawab, the present Nawab being tenth in succession from the founder of the family. He is His Highness Mahabat Khan, who was born in 1900 and succeeded in 1911. The agricultural products are cotton, shipped in considerable quantities from Veraval to Bombay, wheat and other grains. The coast line is well supplied with fair weather harbours. The State pays a tribute of Rs. 65.604 to the Gaekwar of Boxed and the Detribute of the State half and the State half and the State half and the Detribute of the State half and the Detribute of the State half and the Detribute of the State half and the State half a of Baroda and the British Government, but the Nawab receives contributions, called zor-talbi, amounting to Rs. 92,421 from a number of chiefs in Kathiawar—a relic of the days of Mahomedan supremacy. The State maintains 100 Imperial Service Lancers. The Capital is Junagadh, situated under the Girnar and Datar hills, which is one of the most picturesque towns in India, while in antiquity and historical interest it yields to none. The Uparkot, or old citadel, contains interesting Bud-dhist caves, and the whole of the ditch and neighbourhood is honeycombed with caves or their remains. There are a number of fine modern buildings in the town.

Administrator, H. D. Rendall, I.C.S.

Navanagar State, on the southern shore of the Gulf of Cutch, has an area of 3,791 square miles. The Jam of Navanagar is a Jadeja Rajput by caste, and belongs to the same family as the Rao of Cutch. The Jadejas originally entered Kathiawar from Cutch. and dispossessed the ancient family of Jethwas and dispossessed the ancient family of Jethway (probably a branch of Jats) then established at Ghumli. The town of Navanagar was founded in 1540. The present Jam Sahlb is the well-known cricketer, H. H. Jam Sahlb Shri Ranjitsinhji Vibhaji, who was born in 1872 and succeeded in 1907. The principal products are grain and cetters shinned from products are grain and cotton, shipped from the ports of the State. A small pearl fishery lies off the coast. The State pays a tribute of Rs. 1,20,093 per annum jointly to the British Government, the Gaekwar of Baroda and the Nawab of Jungadh. The State maintains a squadron of Imperial Service Lancers. The Capital is Navanagar (or Jamnagar) a flourish-ing place, nearly 4 miles in circuit, situated 5 miles east of the port of Bedi.

Agency includes Kolaba Agency,—This Agency includes the State of Janjira in the Konkan, a country covered with spurs and hill ranges and much intersected by creeks and backwaters. The ruling family is said to be descended from an Abyssinian in the service of one of the Nizam Shahi Kings of Ahmednagar at the end of the Sariaswati, famous in the sacred annals of the Shahi Kings of Ahmednagar at the end of the Hindus, passes through the State. A densely should be described by Sultan Mahmud Begra of Marathas. The British on succeeding the

Marathas as masters of the Konkan refrained the Bombay Government to send expeditions from interfering in the internal administration against Kolhapur in 1765, and again in 1792, of the State. The chief is a Sunni Mahomedan, when the Raja agreed to give compensation by race a Sidi or Abyssinian, with a title of by race a Sidl or Abyssinian, with a title of for the losses which British merciants had Nawab. He has a sanad guaranteeing succession according to Mahomedan law and pays in or tribute. Till 1868 the State enjoyed singular independence, there being no Political Agent, and no interference whatever in its Kolhapur. In 1812 a treaty was concluded internal affairs. About that year the maladiministration of the chief, especially in matters of police and criminal justice, became flagrant; Kolhapur Raja was guaranteed against the those branches of administration were in consequence taken out of his bands and vested sequence taken out of his hands and vested in a Political Agent. The present ruler is H. H. Nawab Sidi Sir Ahmed Khan, G.C.L.H., who was born in 1862. The area of the State is 377 square miles, and the population 101,090. The average revenue is 6 lakhs. The State maintains a military force of 227. The capital is Janjira, 44 miles south of Bombay Island.

Kolhapur Agency.—Kolhapur is a State with an area of 3,217 square miles and population of 833,441. Subordinate to Kolhapur are nine feudatories, of which the following five are important: Vishalgarh, Bavda, Kagal (senior), Kapsi and Ichalkaranji. The present ruling chief Sir Shahu Chhatrapati Maharaja, G.C.S.I., G.C.I.E., G.C.V.O., traces his descent from a younger son of Shivaji, founder of the Maratha power. The prevalence of piracy Kolhapur and the Southern Mal from the Kolhapur port of Malvan compelled Lt.-Col. F. W. Wodehouse, C.I.E.

for the losses which British mercuants had sustained since 1785, and to permit the estahe engaged to abstain from hostilities with other States, and to refer all disputes to the arbitration of the British Government. The principal articles of production are rice, jawar and sugar-cane and the manufactures are coarse cotton and woollen cloths, pottery and hard-ware. The State pays no tribute, and supports a military force of 690. The nine feudatory estates are administered by their holders. Except in the case of two whose holders are minors Kolhapur proper is divided into six pethas or talukas and four mahals and is managed by the Maharaja, who has full powers of life and death. The Southern Mahratta Rajiway passes through the State and is connected with Kolhapur City by a line which is the property of the State.

Resident and Senior Political Agent for Kolhapur and the Southern Mahratta Country:

Southern Maratha Country States.—The Agency consists of the following eight States :--

Name of State.		Area in square miles.	Population.	Tribute to British Government.	Average revenue	
					Rs.	· Rs.
Sangli Miraj (Senior)	.,		1,112 339	227,146 80,281	1,35,000 12,557	10,75,756 3,12,980
Miraj (Junior) Kurundwad (Senior)		••	210 185	36,490 38,375	7,388	2,55,268 1,54,369
Kurundwad (Junior) Jamkhandi	:: ::	::	114 524	34,084 100,304	9,618 20,515	1,73,669 9,41,105
Mudhol Ramdrug		::	368 169	62,831 36,610	2,671	3,52,916 1,50,729
•	Total	••	3,021	616,121	1,87,749	34,16,787

lakhs. The Agency consists of the first class State of Idar and 62 small States. The Native State of Idar covers more than half the territory; eleven other States are of some importance; and the remainder are estates belonging to Rajput or Koli Thakurs, once the lawless feudatories of Baroda, and still requiring the anxious supervision of the Political Officer. H. H. Major-General Sir Partab Singh, a Rajput of the Rathor Clan, having been appointed regent of the State of Jodhpur, and pays Rs 30,340 as tribute to the Gackwar

Mahi Kantha.—This group of States has resigned the gadi of Idar in June 1911 and was a total area of 3,124 square miles and a population of 412,681. The revenue is about 14 Many relatives of the Maharaja and feudal lakhs. The Agency consists of the first class chiefs whose ancestors helped to secure the country for the present dynasty, now enjoy large estates on service tenures, and there are numerous petty chiefs or bhumias who have held considerable estates from the time of the Raos of Idar, or earlier, and are under no obligation of service. The revenues of the State are shared by the Maharaja with these feudal chiefs. The Maharaja receives about Rs. 8,600

of Baroda through the British Government, are Kadana and Sanjeli in the north, Bhadarya of Baroda through the British Government Many chiefs subordinate to idar, known locally as pattawats, hold their estates on condition of military service, the quota being three horsemen for every 1,000 Rupees of Revenue; but for many years this service has not been been supported by the service has not been the service exacted and no military force is maintained at present.

Political Agent: Lt. Col. J. R. B. Graham Carter.

Nasik Agency.—This consists of one State Surgana, lying in the north-west corner of the Nasik District. Surgana has an area of 360 square miles and a population of 15,180. The ruling chief is Prataprav Shankarrao Deshmukh, who is descended from a Maratha Pawar family. He rules the State subject to the orders of the Collector of Nasik. The revenue of the State is about Rs. 23,000.

Palanpur Agency.—This group of States in Gujarat comprises two first class States, Palanpur and Radhanpur, and a few minor States and petty talukas. Its total area is 6.393 square miles and the population is 515,092. The gross evenue is about 141 lakhs. The territory included in the Agency has, like the more central parts of Gujarat, passed during historical times under the sway of the differthe Ahmedaba Suitans, the Mughal Emperors, the Mahrattas, and lastly the British The State from which the Agency takes its name is under the rule of H. H. Nawab Sher Muhammad Khan, G.O.I.E., who is entitled the Dewan of Palanpur. He is descended from the Devan of raisings. In Succession from the Lohanis, an Afghan tribe who appeared in Gujarat in the fourteenth century. The connection of the British Government with the State dates from 1819 in which year the chief was mardered by a body of nobles. Two high roads from Ahmedabad pass through the State and a considerable trade in cotton cloth, grain, sugar and rice is carried on. State maintains a military force of 600 and pays tribute of Rs. 38,000 to the Gaekwar of Baroda. The capital is Psianpur, situated at the junction of the Palanpur-Deesa Branch of the B. B. & C. I. Railway. It is a very old settlement of which mention was made in the eighth century.

Political Agent: Major N. S. Coghill.

Radhanpur is a State, with an area of 1,150 square miles, which is now held by a branch 1,150 square miles, which is now held by a branch of the Babi family, who since the reign of Humayun have always been prominent in the annals of Gujarat. The present chief is H. H. Jalaid-din Khanji, the Nawab of Radhanpur. He has powers to try his own subjects even for capital offences without permission from the Political Agent. The State maintains a military force of 200. The principal products are cotton, wheat and grain. The capital is Radhanpur town, a considerable trade centre for Northern Gujarat and Cutch.

Rewa Kantha Agency.—This Agency, with an area of 4,956 square miles and a population of 665,099, comprises 61 States, of which Rajpipla is a first class State, 5 are second class, one is third class and the rest are either petty States or talukas. Among those petty States

and Umeta in the west, Narukot in the southcast, and three groups of Mehwas. The 26 Sankheda Mehwas petty estates lie on the right bank of the Narbada, while the 24 Pandu Mehwas petty estates including Dorka, Anghad and Ralka, which together form the Dorka Mehwas are situated on the border of the Mahl.

The following are the statistics of area and population for the principal States :-

Taluka or Petha.	Area in square miles.	Popu-
	_ miles.	
Balasinor	189	40,563
Bariya	813	115.350
Chhota Udaipur	873	103,639
	0.0	100,000
Lunavada	388	75,998
Narukot (Jambhughoda)	143	8,485
Rajpipla	1,517	161,588
Sunth Other Jurisdictional States	394	59,350
Civil Stations and Thana Circles	639	100,126

Under the first Anhiivada dynasty (746-961), almost all the Rewa Kantha lands except Champaner were under the government of the Bariyas, that is, Koll and Bhil chiefs. In the eleventh, twelfth and thirteenth centuries chiefs of Rajput or part Rajput blood, driven south and east by the pressure of Muhammadan invasions, took the place of the Koli and Bhil leaders. The first of the present States to be established was the house of the Raja of Rajpipla.

Political Agent: J. P. Brander.

Rajpipla,—This State lies to the south of the Narbada. If has an area of 1,517 square miles, and largely consists of the Rajpipla Hills which form the watershed between the Narbada and Tapti rivers. The family of the Raja of Rajpipla, H. H. Maharana Shri Sir Chhatrasinhji Chambhirsinhji, K.o.I.E., is sald to derive its origin from a Rajput of the Gohal clan. The State pays an annual tribute of Rs. 50,000 to the Gackwar of Baroda. Cotton is the most important crop in the State. In the south there are valuable teak forests. The capital is Nandod, which is connected with Anklesvar by railway built by the State.

Satara Jagirs.—Under this heading are grouped the following six States:—

State.	Area in sq. miles.	Popu- lation.	Revenue in lakhs.
Aundh Phaltan Bhor Akalkot Jath Daphlapur	 501 397 925 498 884 96	68,995 55,996 144,601 89,082 69,810 8,833	2 5 4 2

These were formerly feudatory to the Raja of Satara. In 1849 five of them were placed under the Collector of Satara, and Akalkot under the Collector of Sholapur. Subsequently, the Jagir of Bhor was transferred to the Collector of Poona and Jath and Daphlapur to the Southern Mahratta country. The last two are now under the Collector of Bijaput. The ruling chiefs are as follows :-

State		Ruling Chiefs.	Tribute to British Government
Aundh	•••	Bhavanrav Shrinivasrao alias Baba Saheb, Pant Pratinidhi.	Rs.
Phaltan		Mudhojirav Janrav Nimbalkar	9,600
Bhor		H. H. Shankarrav Chimnaji, Pant Sachiv	4,684
Akalkot	• •	Fatehsinh Shahai Raje Bhonsle alias Bapu Saheb	. , 14,592
Jath		Ramrav Amritrav alias Aba Saheb Daphle	6,400
Daphlapur	••	Rani Bai Saheb Daphle, widow of Ramchandrarav Venkatrav Chavan Daphle.	••••

Savantwadi.—This State has an area of 926 square miles and population of 217,240. The average revenue is 51 lakhs. It lies to the north of the Portuguese territory of Goa, the general aspect of the country being extremely picturesque. Early inscriptions take the history of the State back to the sixth century. So late as the nineteenth century the ports on this coast swarmed with pirates and ports on this coast swarmed with pirates and the country was very much disturbed. The present chief is Khem Savant V, alias Bapu Saheb Bhonsle. Rice is the principal crop of the State, and it is rich in valuable teak. The sturdy Marathas of the State are faverable to the principal crop of the Tollan Army and ourite troops for the Indian Army and supply much of the immigrant labour in the adjacent British districts. The Capital is Savant-vadi, also called Sundar Vadi, or simply Vadi.

Sholapur Agency .- This contains the State of Akalkot which forms part of the tableland of the Deccan. It has an area of 498 square miles and a population of 89,082. In the beginning of the eighteenth century the Akalthe territory, which had formerly been part of the Mussulman kingdom of Ahmednagar was granted by the Raja of Satara to a Maratha Sardar, the ancestor of the present chief, subject to the supply of a contingent of horse. In 1849 after the annexation of Satara, the Akal-kot Chief became a feudatory of the British Government.

The Sukkur Agency.—This includes Khair-pur State, a great alluvial plain in Sind. It has an area of 6,050 square miles and a popula-tendence of the Collector of Surat, F. G. H tion of 225,788, and revenue of 15 lakhs. The Anderson. .

present chief, H. H. Mir Sir Imam Buksh Khan Talpur, 0.0.1.E., belongs to a Baloch family called Talpur. Previous to the accession of this family on the fall of the Kalhora dynasty of Sind in 1783, the history of Khalrpur belongs to the general history of Sind. In that year Mir Fatch All Khan Talpur established himself as Rals or ruler of Sind; and subsequently bis rephase Mir Sothah Khan Talpur, founded his nephew, Mir Sohrab Khan Talpur, founded the Khairpur branch of the Talpur family. In 1832 the individuality of the Khairpur State, as separate from the other Talpur Mirs in Sind, was recognised by the British Government in a treaty, under which the use of the river Indus and the roads of Sind were secured to the British. The chief products of the State are fuller's earth, carbonate of soda, cotton, wool nulers earth, carbonate of soda, cotton, wool and grain. The manufactures comprise cotton fabrics and various kinds of silverware and metal work. The Railway from Hyderabad to Rohri runs through the whole length of the State. The rule of the Mir is patriarchal, but more behaves the but many changes have been made in recent years introducing greater regularity of pro-cedure into the administration. The Wazir, an officer lent from British service, conducts the administration under the Mir. The State supports a military force of 564 including an Imperial Service Camel and baggage Corps which is 139 strong.

Political Agent: the Collector of Sukkur, C. S. Campbell..

State.	Ruling Chiefs.	Area in sq. miles.	Popula- tion.
Dharampur Bansda Sachin	Maharana Shri Mohandevji Narayandevji. Maharaval Shri Indrashnhii Pratapshnhii Nawab Sril Ibrahim Muhammad Yakut Khan Muba- zarat Daula Nasral Jung Bahadur.	704 215 42	114,995 44,594 18,903

Agency a tract of country known as the Dangs, which has an area of 999 square miles and a population of 29,353 and a revenue of Rs. 30,000. The country is divided into 14 Dangs or States of very unequal area, each under the purely nominal rule of a Bhil Chief with the title of Raja, Nalk, Pradhan or Powar.

Thana Agency.—This includes the State of Jawhar, in the Thana District, on a plateau above the Konkan plain. It has an area of E. G. Turner. 310 square miles and a population of 53,489

The joint revenue of these states is 12½ lakhs. | and revenue of 2 lakhs. | Up to 1294, the period tribute is paid to the British Government of the first Mahomedan invasion of the Decreas. | 9,154. | There is also attached to this can, Jawhar was held by a Varli, not a Koli can, Jawhar was held by a Varli, not a Koli chief. The first Koll chief, obtained his foot-ing in Jawhar by a device similar to that of Dido, when she asked for and received as much land as the hide of a bull would cover. The Koli chief cut a hide into stripes, and thus enclosed the territory of the State. The present chief is Raja Krishnashah Patangshah who administers the State, assisted by a Karbhari under the supervision of the Collector of Thana,

UNDER THE GOVERNMENT OF BENGAL.

Cooch Behar.—This State is a low-lying prestige of the Tippera Rajas dates back plain in North Bengal. It has an area of 1,307 to the fifteenth century and a mythical account square miles, a population of 5,93,052 and revenue of 27 lakhs. The ruling chief is H. H. Maharaja Jitendra Narayan Bhup Bahadur, who succeeded in 1913. His family is of Tibetan or Dravidian origin. He administers the State with the assistance of the State Council. Cooch Behar once formed part of the famous kingdom of Kamarupa. British connexion with it began in 1772 when the succession was disputed and the assistance of the East India Company invited. The chief products of the State are rice, jute and tobacco. It maintains a military force of 194.
The capital is Cooch Behar, which is reached
by the Cooch Behar State Railway, a branch
from the Eastern Bengal State Railway System.

Hill Tippera.—This State lies to the south of the district of Sylhet and consists largely of hills covered with bamboo jungles. It has an area of 4,086 square miles and a population of 229,613. The revenue from the State lation of 229,613. The revenue from the State is about 10 lakhs and from the Zemindari in British territory a slightly smaller sum. The present Raja is Birendra Kishore Deb Barman Manikya, who is a Kshatriya by caste and comes of the Lunar race. The military Political Agent: Captain O. C. Pulley.

to the fifteenth century and a mythical account of the State takes the history to an even earlier date. Both as regards its constitution and its relations with the British Government, the State differs alike from the large Native States of India, and from those which are classed as or india, and from those which are classed as tributary. Besides being the ruler of Hill Tippera, the Raja also holds a large landed property called Chakla Roshnabad, situated in the plains of the Districts of Tippera, Nachali and Sylhet. This estate covers an area of 600 square miles, and is held to form with the Stote as indivisible Pai. Discrete as to the right State an indivisible Raj. Disputes as to the right of succession have occurred on the occasion of almost every vacancy in the Raj, producing in times gone by disturbances and domestic wars, and exposing the inhabitants of the hills to serious disorders and attacks from the Kukis, who were always called in as auxiliaries by one or other of the contending parties. The prin-ciples which govern succession to the State have recently, however, been embodied in a sanad which was drawn up in 1904. The

UNDER THE GOVERNMENT OF BIHAR AND ORISSA.

Under this Government there are the Chota of Chota Nagpur. The Bengal Nagpur Rail-Under this Government there are the Nagpur political States of Kharsawan and Seraikela, and the Orissa feudatory States, 24 in number. The total area is 28,648 square wiles and the total population 3,942,972. The 24 in numer. The count area is so, one square miles, and the total population 3,942,972. The revenue is about 54 lakhs. The inhabitants are hill-men of Kolarian or Dravidian origin, and their condition is still very primitive. The chief of Kharsawan belongs to a junior branch of the Porahat Raja's family. The State first came under the notice of the British in 1793, when, in consequences of disturbances on the frontier of the old Jungle Mahals, the Thakur of Kharsawan and the Kunwar of Saraikela were compelled to enter into certain agreements relating to the treatment of fugitive rebels. The chief is bound, when called upon, to render service to the British Government, but he has never had to pay tribute. His present sanad was granted in 1899. He exercises all administrative powers, executive and judicial, subject to the control of the Deputy Commis-

way runs through a part of the State. The adjoining State of Seraikela is held by the elder branch of the Porahat Raja's family.

Orissa Fendatory States.—This group of 22 dependent territories is situated between the Mahanadi Delta and the Central Provinces, and forms and forms the mountainous background of Orissa. The names of the individual States are Athgarh, Talcher, Mayurbhani, Niigiri, Keonjhar, Pal Lahara, Dhenkanal, Athmailik, Hindol, Narsinghpur, Baramba, Tigiria, Khanpara, Nayagarh, Ranpur, Daspalla and Baud. To these there were added in 1905 the following States: Bamra, Rairakhol, Sonpur, Patna and Kalpandi from the Control Provinces. and Kalahandi from the Central Provinces, and Gangpur and Bonal from the Chota Nagpur States. The total population in 1911 was 3,798,038 with a revenue of about 45 lakhs. was granted in 1899. He exercises all admi-nistrative powers, executive and judicial, subject to the control of the Deputy Commis-less of Singhbhum and the Commissioner Orissa they were never brought under the

central government, but from the earliest origin, and furnishes the only known instance central government, but from the earliest times consisted of numerous petty principalities which were more or less independent of one another. They were first inhabited by aboriginal races, who were divided into innumerable communal or tribal groups each under its own chief or headman. These carried on incessant warfare with their neighbours on the other. In course of time their forests on the other. In course of time their forests on the center to the tribal chilf retreats were penetrated by Aryan adventurers, who gradually overthrew the tribal chiefs and established themselves in their place. Tradition relates how these daring interlopers, most of whom were Rajputs from the north, come to Puri on a pilgrimage and remained behind to found kingdoms and dynasties. It was thus that Jai Singh became ruler of Mayurbhanj over 1300 years ago, and was succeeded by his eldest son, while his second son seized Keonjhar. The chiefs of Baud and Daspalla are said to be descended from the same stock; and a Rajput origin is also claimed by the Rajas of Athmallik, Narsinghur, Pal Lahara, Talcher and Tigiria. Nayagarh, it is alleged, was founded by a Rajput from Rewah, and a scion of the same family was the ancestor of the present house of Khandpara. On the other hand, the chiefs of a few States, such as Athgarh, Baramba and Dhen-kanal, owe their origin to favourites or distinguished servants of the ruling sovereigns of Orissa. The State of Ranpur is believed to be the most ancient, the list of its chiefs covering a period of over 3,600 years. It is note-worthy that this family is admittedly of Khond

in which, amid many vicissitudes, the supre-macy of the original settlers has remained in-tact. The States acknowledged the suzerainty of the paramount power and were under an implied obligation to render assistance in resisting invaders; but in other respects neither the ancient kings of Orissa nor their successors, the Mughals and Marathas, ever interfered with their internal administration. All the States have annals of the dynastics that have ruled over them; but they are made up in most part of legend and fiction and long genealogical tables of doubtful accuracy, and contain very few features of general interest. The British conquest of Orissa from the Marathas, which took place in 1803, was immediately followed by the submission of ten of the Tributary States the chiefs of which were the first

to enter into treaty engagements.

The staple crop in these States is rice. The forests in them were at one time among the best timber producing tracts in India, but until lately forest conservancy was practically unknown. The States have formed the subject of frequent legislation of a special character. The relations with the British Government are governed mainly by the sanads granted in similar terms to all the chiefs in 1894. They contain ten clauses reciting the rights, privi-leges, duties and obligations of the chiefs, providing for the settlement of boundary disputes, and indicating the nature and extent of the control of the Political Agent who is

also the Commissioner of the Orissa Division.

Political Agent:—L. E. B. Cobden-Ramsay.

UNDER THE GOVERNMENT OF THE UNITED PROVINCES.

Three States: Rampur, Tehri and Benares are included under this Government:---

State.	Area	Popu-	Revenue
	Sq. Miles.	lation.	in lakhs.
Rampur Tehri (Garhwal) Benares	892 4,200 988	531,898 299,853	45 6

Rampur in Rohilkhand is a level fertile tract of country. Its early history is that of Rohilkhand. The adopted son of a Rohilla, who had distinguished himself in the Maratha who had distinguished ministr in the maraona wars, obtained the title of Nawab and the grant of the greater part of Rohilkhand in 1790. Subsequently the State was divided amongst his sons and on the cession of Rohilkhand to the British Government in 1801 the family holding Rampur were confirmed in their pos-sessions. The Nawab at the time of the Mutiny received a grant of land for his unswerving tiny received a grant of land for his unswerving loyalty. The present Nawab is Colonel H. H. Sir Hamid Ali Khan Bahadur, C.C.L.E., C.C.V.O., A.-D.C., who was born in 1875 and succeeded in 1889. Since that date a native official of the United Provinces, called the Minister, has been lent to the State. He presides over a Legislative Committee first formed in 1902.

squadrons of cavalry are maintained, of which two, 317 strong, are Imperial Service Lancers. The local force includes about 1,900 infantry and 200 artillery. The capital is Rampur on the left bank of the Kosi, 851 miles by rail from Calcutta. Income, 45 lakhs.

Political Agent: Rohilkhand. the Commissioner of

Tehri State.—(or Tehri Garhwal). This State lies entirely in the Himalayas and contains a tangled series of ridges and spurs ratains a tangled series of ridges and spurs ra-diating from a lofty series of peaks on the border of Tibet. The sources of the Ganges and the Jumna are in it. The early history of the State is that of Garhwal District, the two tracts having formerly been ruled by the same dynasty. Parduman Shah, the last Raja of the whole territory, was killed in battle, fighting against the Gurkhas; but at the close of the Nepalese War in 1815, his son received from the British the present State of Tehri-During the Mutiny the latter rendered valuable assistance to Government. He died in 1859 without issue, and was succeeded by his nearassistance to Government. He died in 1859 without issue, and was succeeded by his near relative Bhawani Shah; and he subsequently received a sanad giving him the right of adoption. The present Raja Sir Kirti Shah, K.O.S.I. was installed in 1894. The principal product is rice, grown on terraces on the hill-sides. The State forests are very valuable and there is State forests are very valuable and there is considerable export of timber. The Raja has full powers within the State, executive authority The principal crops are maize, wheat, rice and sugar cane. The most important industry is full powers within the State, executive authority the weaving of cotton cloths. The Oudh and Bohilkhand Railway crosses the State. Three A military force of 113 strong is maintained.

The capital is Tehrl, being Pratapnagar 8,000 feet above the sea level.

Political Agent: the Commissioner of Kumaon. Benares.-The founder of the ruling family of Benares was one Mansa Ram, who entered the service of the Governor of Benares under the Nawab of Oudh in the early eighteenth century. In 1794, owing to the maladministration of the estates which had accumulated under the Raja of Benares, an agreement was concluded by which the lands held by the Raja in his own right were separated from the rest of the province, of which he was simply administrator. The direct control of the latter was assumed by the Government, and an annual income of one lakh of rupees was assured to the Raja, while the former constituted the Domains. Within the Domains the Raja had revenue powers similar to those of a Collector in a British District, which were delegated to Estates in 1889.

the summer capital certain of his own officials. There was thus constituted what for over a century was known as the Family Domains of the Maharaja of Benares. On the 1st of April 1911 these Domains became a State consisting of the parganas of Bhadohi (or Konrh) and Chakia (or Kera Mangraur) with the fort of Ramnagar. The Maharaja's powers are those of a ruling chief, subject to certain conditions, of which the most important are the maintenance of all rights acquired under laws in force prior to the transfer, the reservation to Government of the control of the postal and telegraph systems, of plenary criminal jurisdiction within the State over servants of the British Government and European British subjects, and of a right of control in certain matters connected with excise. The present ruler is H. H. Maharaja Sir Prabhu Narayan Singh Bahadur, G.O.I.E., who was born in 1855 and succeeded to the

UNDER THE GOVERNMENT OF THE PUNJAB.

Under this Government there are 34 states, i varying considerably in size and importance.

Area, 36,532 square miles. Population (1911),
4,212,794. Revenue, about £1,000,000.

The Punjab states may be grouped under
three main classes. The hill States, 23 in

number, lie among the Punjab Himalayas and are held by some of the most ancient Rajput families in all India. Along the western half of the southern border lies the Muhammadan state of Bahawalpur. The remaining States, including the Sikh principalities of Patiala, Jind Nabha, Kapurthala, Faridkot and Kalsia, and the Muhammadan chiefships of Maler Kotla, Pataudi, Loharu and Dujana, lie east of Lahore, and, with insignificant exceptions, occupy the centre of the eastern plains of the province.

The list below gives details of the area, population, and revenue of the more important

Name.	Area square miles,	Popula- tion.	Revenue Approx. in lakhs.
Bahawalpur Chamba Faridkot Jind Kapurthala Bialer Kotla Man'il Nabha Patinia	15,000 8,216 642 1,259 630 167 1,200 928	780,394 134,351 130,374 271,728 268,244 71,144 181,110 248,892	7 8 15 25 4 5
Sirmur (Nahan)	5,412 1,198	1,407,659 138,564	

Bahawalpur.-This State, which is about 300 miles in length and about 40 miles wide, is divided lengthwise into three great strips. Of these, the first is a part of the Great Indian Of these, the first is a part of the oreal anguan Desert; the central tract is chiefly desert, not capable of cultivation, identical with the Bar or Pat uplands of the Western Punjab; and the third, a fertile alluvial tract in the river valley, is called the Sind. The ruling family valley, is called the Sind. The ruling family claims descent from the Abbasid Khalifs of

and assumed independence during the dis-memberment of the Durrani empire. On the rise of Ranjit Singh, the Nawab made several applications to the British Government for an engagement of protection. These, however, were declined, although the Treaty of Lahore in 1809, whereby Ranjit Singh was confined to the right bank of the Sutlej, in reality effected his object. The first treaty with Bahawalpur was negotiated in 1833, the year after the treaty with Ranjit Singh for regulating traffic on the Indus. It secured the independence of the Nawab within his own territories, and opened up the traffic on the Indus and Sutlej. During the first Afghan War the Nawab rendered assistance to the British and was rewarded by a grant of territory and life pension. On his death the succession was disputed and for a time the State was in the hands of the British. The present Nawab is H. H. Nawab Sadiq Mulammad Khan, who was born in 1904 and succeeded in 1907. During his minority the State is managed by a Council of Regency. The chief crops are wheat, rice and millet. The Lahore-Karachi branch of the North-Western State Railway State Railway passes through the State. The State supports an Imperial Service Siliadar Camel Transport Corps consisting of 355 men and 1,144 camels, in addition to other troops. The capital is Bahawalpur, a walled town built in 1748.

Political Agent: Major A. J. O'Brien. Chamba,—This State is enclosed on the west and north by Kashmir, on the east and south by the British districts of Kangra and Gurdaspur, and it is shut in on almost every side by lofty hill ranges. The whole country is mountainous and is a favourite resort of sportsmen. It possesses a remarkable series of copper plate inscriptions from which its chronicles have been completed.

Founded probably in the sixth century by

Marut, a Surajbansi Rajput, who built Brahma-pura, the modern Brahmapur, Chamba was ex-tended by Meru Varma (880) and the town of Chamba built by Sahil Varma about 920. The State maintained its independence, until the Moghal conquest of India.

Under the Moghals it became tributary to the

Egypt. The tribe originally came from Sind, empire, but its internal administration was

Brst came under British innuence in 1846. North-Wes The part, west of the Ravi, was at first handed over to Kashmir, but subsequently the boundaries of the State were fixed as they now together a stand, and it was declared independent of Kashmir. The present chief is H. H. Raja Kapurte Sir Bhure Singh, K.C.S.I., C.I.E., who was born in 1869 and succeeded in 1904. The principal of the Do rongs are rice, maize and millets. There are crops are rice, maize and millets. There are some valuable forests which were partly leased to Government in 1864 for a term of 99 years, but the management of them has now been retroceded to the Chamba Durbar. The retroceded to the Chamos Durous. The mountain ranges are rich in minerals which are little worked. The principal road to Chamba town is from Pathankot, the terminus of the Amritsar Pathankot branch of the North-Western Railway. The Raja is assisted in the administration by the Wazir, who is the chief executive officer and head of the judicial department. Chamba town on the light. department. Chamba town, on the right bank of the Ravi, contains a number of interesting temples, of which that of Lakshmi Narayan, dating possibly from the tenth cen-tury, is the most famous.

Faridkot.—The ruling family of this sandy level tract of land belongs to the Sidhu-Burar clan of the Jats, and is descended from the same stock as the Phulkian houses. Their occuration of Faridkot and Kot Kapura dates from the time of Akbar, though quarrels with the surrounding Sikh States and internal dissensions have greatly reduced the patrimony.
The present chief, H. H. Raja Brij Indar
Singh Bahadur, was born in 1896 and succeeded

in 1908. During his minority the adminis-tration is carried on by a council under the presidency of an Extra Assistant Commissioner. The State supports one company of Imperial

Service Sappers.

Jind.—The three Native States of Jind, Patiala and Nabha form collectively the Phulkian States, the most important of the Cis-Sutlej States. This area is the ancestral pos-session of the Phulkhian houses. It lies mainly in the great natural tract called the Jangal (desert or forest), but stretches north-east into that known as the Pawadh and southwards across the Ghaggar into the Nardak. while its southernmost tract, round the ancient town of Jind, claims to lie within the sacred limits of Kurukshetra. This vast tract is not, however, the exclusive property of the States; for in it lie several islands of British territory, and the State of Maler Kotla enters the centre of its northern border. On the other hand, the States hold many outlying villages surrounded by British territory.

The history of Jind as a separate State dates from 1763 when the confederated Sikhs cap-tured Sirhind town and partitioned the whole Jind Province. The Maharaja of Jind, H. H. Maharaja Sir Ranbir Singh, K.C.S.I., was born in 1879 and succeeded in 1887. He is descended from the ancestors of the Phulkian family.

not interfered with, and it escaped almost unscathed from Sikh aggression. The State first came under British influence in 1846. The part, west of the Rayl, was at first handed of the State is divided between four depart. ments under heads of departments which form together a State Council controlled by the

Kapurthala.—This State consists of three detached pieces of territory in the great plain of the Doab. The ancestors of the chief of Kapurthala at one time held possessions both in the cis and trans-Sutlej and also in the Bari Doab. In the latter lies the village of Ahlu, whence the family springs, and from which it takes the name of Ahluwalia. Some of these States were confiscated after the first Sikh.
War and when the Juliundur Doab came
under the dominion of the British Government in 1846, the estates north of the Sutlej were maintained in the independent possession of the Ahluwalia chieftain, conditional on his paying a commutation in cash for the service engagements by which he had previously been bound to Ranjit Singh. The Bari Doab estates have been released to the head of the house in perpetuity, the civil and police jurisdiction remaining in the hands of the British authorities. For good services during the Mutiny, the Raja was rewarded with a grant of other States in Oudh in which, however, he exercises no ruling powers, though in Oudh he is, to mark his superiority, addressed as Raja-i-Rajagan. The present chief is H. H. Maharaja Sir Jagatjit Singh Bahadur, G.C.S.I., who was born in 1872 and succeeded in 1877. He was granted the title of Maharaja as an hereditary distinction in 1911. The chiefs of Kapurthala are Sikhs. Sardar Jassa Singh was always known as Jassa Kalal; but the family claim descent from Rana Kapur, a semi-mythical member of the Rajput house of Jaisalmer, who is said to have left his home and founded Kapurthala 900 years ago. Only as small proportion of the population however are Sikhs, the majority being Mahomedans. The chief crops are wheat, gram, maize, cotton and sugar-cane. The town of Sultanpur in this State is famous for hand-painted cloths. The main line of the North-Western Rallway passes through part of the State and the Grands Trunk Road runs parallel to it. A branch railway from Juliundur City to Ferozepur passe through the State. Kapurthala maintains a battalion of Imperial Service infantry and a small force of local troops. The capital is Kapurthala, which is said to have been founded in the eleventh century.

Agent to the Lieutenant-Governor for Kapurthala, the Commissioner of the Juliunder Division.

Maler Kotla,-This State consists of a level sandy plain bounded by the district of Ludhiana on the north and by Patiala terri-tory elsewhere. The Nawabs of Maler Kotla are of Afghan descent, and originally held positons of trust in the Sirhind province under from the ancestors of the Phulkian family. During the Sikh War and the Mutiny the Raja of Jind was of great service to the British and was rewarded with a grant of nearly 600 square miles of land. The principal crops are wheat, barley and gram. The only industries of importance are the manufactures of gold and silver ornaments, leather and woodwork and 1805, when the Nawab of Maler Kotla joined tions of trust in the Sirhind province under

the British army, the British Government succeeded to the power of the Marathas in the districts between the Sutlej and the Jumna. The final treaty which affirmed the dependence of the State on the British Government was signed after the submission of Ranjit Singh in 1809. The present Nawab is H. H. Nawab in 1809. The present Nawab is H. H. Nawab Ahmud Ali Khan Bahadur, who was born in 1881 and succeeded in 1908. The chief products are cotton, sugar and opium. The State supports one company of Imperial Ser-vice Sappers. The capital is Maler Kotla. Mandi.—This is a mountainous State in

the upper reaches of the Beas. It has a history of considerable length, as it once formed part of the Suket State. Its relations with the British were determined after the battle of Sobraon in 1846. The present minor chief H. H. Raj Jogindra Sen was installed in 1913.. The administration is carried on by Mr. A. L, Gordon Walker, I.C.S., the Superintendent and Sardar Amar Singh. The principal crops are rice, maize, wheat and millet. About three fifths of the State are occupied by forest and graz-ing lands. It is rich in minerals. The capital is Mandi, founded in 1527, which contains several temples and other buildings of interest and is one of the chief marts for commerce with Ladakh and Yarkhand.

Nabha.—Nabha is one of the Phulkian States. It consists of two distinct parts, the main portion comprising 12 separate pieces of territory scattered among the other two Phulkian States of Patials and Jind. The second portion forms the nizamat of Bawal in the extreme south-east of the Punjab. It became a separate State in 1763. After the victory of Sobraon, the chief was deposed and about a quarter of his territory was confiscated. For his loyalty during the Mutiny the chief was rewarded with territory which forms the present Bawal Nizamat. The present chief is H. H. Maharaja Ripudaman Singh Malwandar Bahadur, who was born in 1883 and succeeded in 1911. He is assisted in the advicement

Patiala,—This is the largest of the Phulkian States, but its territory is scattered and interspersed by small estates and even single villages belonging to other villages and British districts. Its history as a separate State begins in 1762. During the Sikh War and the begins in 1762. During the Sikh war and the Mutiny the Maharaja was loyal and was substantially rewarded. The present Chief H. H. Maharajadhiraja Sri Sir Bhupindar Singh Mahindar Bahadur, G.C.I.E., was born in 1891 and succeeded in 1900. During his minority his administrative functions were exercised has administrative lumentons were exercised by a council of regency consisting of three members. The principal crops are gram, barley and wheat. Cotton and tobacco are also grown in parts of the State. It possesses valuable forests. The State is rich in antiquities especially at Pinjaur, Sunam and Sirhind. The North-Western Railway traverses the State. It contains an Imperiol Service the State. It contains an Imperial Service contingent, of a regiment of cavalry and two

battalions of infantry.

In 1900 it was decided by the Government of India to appoint a Political Agent for Patials, and the other two Phulkian States of Jind and Nabha were included in the Agency, to which was afterwards added the Mahomedan State of Bahawalpur. The headquarters of the Agency are at Patiala.

Sirmur (Nahan).—This is a hilly State in the Himalayas under the Political control of the Commissioner of Ambala Division. Its history is said to date from the 11th century. In the eighteenth century the State was able to repulse the Gurkha invasion, but in 1793 the Gurkhas were invited to aid in the sup-pression of an internal revolt in the State and they in turn had to be evicted by the British. they in turn had to be evicted by the British. In 1857 the Raja rendered valuable services to the British, and during the second Afghan War he sent a contingent to the North-West Frontier. The present chief is H. H. Baja Amar Parkash Bahadur, who was born in 1888 and succeeded in 1911. The main agricultural feature of the State is the recent development of the Kiarda Dun, a fertile level lopin which produces wheat gram rice maize wandar Dansau, who is assisted in the administration by a council of three members which also acts as a court of appeal. The State supports one battalion of Imperial Service Infantry. The State is traversed by the main line and by three branches of the North-Western Railway The Raiputana Malwa Railway crosses Bawal. The chief crops are gram, wheat and pulses, the chief industries are manufactures of silver and gold ornaments and brass utensils.

UNDER THE GOVERNMENT OF BURMA.

Under this Government there are four Shan | They owed allegiance to the Burmese Gov-States, two in the Mandalay Division (Hkmati States, two in the Mandalay Division (Hkmati Long and Mong Mit); and two in the Sagaing Division (Hsawnghsup and Singkaling Hkmati), the area of which is 7,374 square miles and the population about 67,051, consisting chiefly of Buddhists. There are in addition 48 petty States, 5 in the Northern Shan States, 43 in the Southern Shan States, with an area of 58,835 square miles and a population of 1,358,498 consisting of Buddhists and Animists.

The Shan States—though a parting of

The Shan States—though a portion of British India, do not form part of Burma proper and are not comprised in the regularly administered area of the Province. They lie for the most part to the east of Upper Burma.

ernment, but were administered by their own rulers (Sawbwas) and the British Government has continued to a certain extent the semi-independence which it found existing in 1885. As at present defined, the Shan States are divided into—

1. States under the supervision of the Superintendent. Northern Shan States,

whose head quarters are at Lashio; area

14, 294 square miles and population 58,952. States under the supervision of the Superintendent and Political Officer, Southern Shan States, whose head-quarters are at Taunggyi; area 40,434 square miles and population 900,202;

There are five States in the Northern and 38; the Gokteik gorge, now spanned by a viaduct in the Southern Shan States. There are in addition two Shan States under the supervision of the Commissioner of the Mandalay Division, namely, Hkmati Long in the unadministered territory to the north of the My-itkyina District and Mong Mit lying north-east of the Ruby Mines District. In the northwest of the Upper Chindwin District towards Manipur there are two small Shan States, Hsawnghsup and Singkaling Hkamtl, whose administration is supervised by the Commissioner of the Sagaing Division.

sioner of the Sagaing Division.

The Northern Shan States are North Hsenwi in the north, South Hsenwi near the Salween in the east, Mangion in the south-east, Hsipaw in the south-west, and Tawngpeng in the northwest. The Wa States east of the Salween west. The Wa States east of the Salween can hardly be said to be under British control. In ordinary matters the States are adminis-tered by their Sawbwas, who are assisted by amats, or ministers, in various departments. The Superintendent exercises general control over the jurisdiction of justice and is vested with wide revisionary powers. In revenue matters the Sawbwas administer their States in accordance with local customs which have been but little modified. Of prime importance in the economy of the country is the Mandalay Lashio railway, 180 miles in length, of which 126 miles lie within the Northern Shan States. The line is a single track, and was constructed in the face of considerable engineering difficulties, of which not the least notable was

UNDER THE GOVERNMENT OF ASSAM.

The only State of importance under the Chief | Commissioner of Assam is Manipur, which has an area of 8,456 square miles and a population of 346,222, of which about 60 per cent. are Hindus, and 36 per cent. animistic forest tribes. Manipur consists of a great tract of hilly country and a valley, about 30 miles long 20 miles wide, which is shut in on every side. The State adopted Hinduism in the early eigh-State adopted Hinduism in the early eighteenth century, when it came under a Naga Raja who subsequently made several invasions into Burma. On the Burmes eretaliating, Manipur negotiated a treaty of alliance with the British, in 1762. The Burmese again avaded Manipur during the first Burmese War and on the conclusion of peace, in 1826, Manipur was declared independent. The chief event in its subsequent history was the intervention of the British in 1891 to establish the claim of Kula Chandra Singh as Maharaja, followed by the treacherous murder of the Chief Commissioner, Mr. Quinton and the officers with him and the withdrawal of the escort which accompanied him. From 1891 to 1908 the State was administered by a Political Agent and Superintendent of the State during the minority of H. H. Raja Chura Chand Singh. The Raja was invested with ruling powers in 1908. The administration of the State is now conducted by the Durbar, consisting of the tracted by internal Raja as President, a vice-president, a member as a rule, are small.

UNDER THE GOVERNMENT OF CENTRAL PROVINCES.

tory States subordinate to the administration, ion, to the different Districts of which they with an area of 31,174 square miles and a population of 2,117,002. One of the States, Makrai, ites within Hoshangabad District; the relations with The States vary greatly in size and importance,

It had been proposed to continue the railway about 90 miles farther east to the Kunlong, where is a ferry over the Salween, and eventually to penetrate into Yunnan; but this extension is for the present in abeyance.

The most important of the Southern Shan States are Kengtung and Yawnghwe. Under the supervision of the Superintendent and Political Officer and his Assistants, the chiefs known as Sawbwas, Myozas, and Ngwegunh-mus—control their own States, exercising revenue, civil and criminal jurisdiction therein. There are in all 9 Sawbwas, 18 Myozas and

11 Ngwegunhmus.

Karenni.—This district consists of five States, with a total area of approximately States, with a total area or approximately 4,200 square miles and a population of about 64,000, lying on the frontier south of the Shan States. The largest State is Kantarawadi with an area of 3,000 square miles, a population of nearly 40,000, and a gross revenue of about 1½ lakhs of rupees. More than half of the inhabitants belong to the Red Karens, a people low in the scale of civilisation. An assistant Political Officer is posted at Loikaw as Agent of the British Government, and a certain amount of control is exercised through him over the chiefs. The principal wealth of the country is teak timber, and the considerable alien population is largely supported by the timber trade, which, however, has declined greatly in the last few years. The Karens distinguished as hunters. themselves are

of the Indian Civil Service whose services are lent to the State, three ordinary and three additional members who are all Manipuris. The staple crop of the country is rice. Forests of great variety cover the who.le of the hill ranges.

Khasi and Jaintia Hills.—These petty chiefships, 25 in number, with a total area of about 3,900 square miles and a population of 126,000, are included under the Government of Assam. Most of the States have treatles or engagements with the British Government. The largest of them is Khyrim, the smallest is Nonglewal, which has a population of 169. Most of them are ruled by a chief or Siem. The Siemship usually remains in one family, but the succession was originally controlled by a small electoral body constituted from the heads of certain priestly clans. Of recent years there has been a tendency to broaden the elective basis, and the constitution of a Khasi State has always been of a very demonaist state has always been of a very demo-cratic character, a Siem exercising but little control over his people. Among many of the north-east frontier tribes there is little se-curity of life and property, and the people are compelled to live in large villages on site. selected for their defensive capabilities. The Khasis seem, however, to have been less dis-tracted by internal warfare, and the villages.

The Central Provinces include fifteen feuda- | mainder are situated in the Chhattisgarh Divi-

miles and Bastar the largest an area of 13,062 square miles. They are administered by hereditary chiefs, who hold on conditions of loyalty and good government set forth in patents and acknowledgments of fealty, but are nominally free from direct interference save in the case of sentences of death, which require the Chief Commissioner's confirmation. But, as a fact, the Government has exercised a very large amount of control, owing mainly to the frequency with which the States have been taken quency with which one states have some of either the minority or the misconduct of the chief. The States pay a tribute to Government which amounts in the aggregate to about 21

Statistics relating to the chief States are contained in the following table :-

State.	Area.	Popula- tion 1911.	Revenue (approxi- mate) in Lakhs.
	Sq. Miles.		Rs.
Bastar	13,062	433,310	8
Jashpur	1,963	174,458	1
Kanker	1,429	127,014	2
Khairagarh	931	155,471	3
Nandgaon	871	167,362	4
Raigarh	1,486	218,860	2
Surguja	6,055	248,703	2
Eight other States.	5,377	411,824	6
Total	31,174	2,117,002	23

Bastar.—This State, which lies to the south-east corner of the Provinces, is the most important of the group. It has an area of 13,002 square miles and a population of 433,310. The family of the Raja is very ancient, and is stated to belong to the Rajputs of the Lunar race. Up to the time of the Marathas, Bastar occupied an almost independent position, but a tribute was imposed on it by the Nagpur government in the eighteenth century. At

Sakti the smallest, having an area of 138 square anarchy. The chief object of contention was the Kotapad tract, which had originally be-longed to Bastar, but had been ceded in return for assistance given by Jeypore to one of the Bastar chiefs during some family dissensions. The Central Provinces Administration finally made this over to Jeypore in 1863, on condition of payment of tribute of Rs. 8,000, two-thirds of which sum was remitted from the amount payable by Bastar. By virtue of this arrangement the tribute of Bastar was, until recently, reduced to a nominal amount. The cultivation of the State is extremely sparse. Rice is the most important crop. The State is ruled by the feudatory Chicf. The Dewan of the State is an extra Assistant Conservator of Forests who has three assistants under him. After a recent period of disturbance the State has returned to complete tranquillity and precautions are being taken to remove all causes of unrest by better supervision over the minor State officials and a very considerate forest policy. The chief town is Jagdalpur on the Indravati River.

Surguja.—Until 1905 this was included in Chota Nagpur State of Bengal. The most important feature is the Manipat, a magnif-cent tableland forming the southern barrier of the State. The early history of Surguja is obscure; but according to a local tradition in Palamau, the present ruling family is said to be descended from a Raksel Raja of Palamau. In 1758 a Maratha army overran the mau. In 1700 a Maratha army overran the State, and compelled its chief to acknowledge himself a tributary of the Bhonsla Raja. At the end of the eighteenth century, in conse-quence of the chief having aided a rebellion in Palamau against the British, an expedition entered Surguia and though order was tamped entered Surguja; and, though order was temporarily restored, disputes again broke out between the chief and his relations, necessi-tating British interference. Until 1818 the state continued to be the scene of constant lawlessness; but in that year it was ceded to the British Government under the provisional agreement concluded with Mudhoji Bhonsla of Berar, and order was soon estaba tribute was imposed on it by the Nagpur lished. The principal crops are rice and other government in the eighteenth century. At this period the constant feuds between Bastar the wild Korwa tribe being a perpetual source and the neighbouring State of Jeypore in Madras of trouble. A band of them committed several kept the country for many years in a state of murders and robberies in 1910.

Native States' Tribute.

Many of the States pay tribute, varying in amount according to the circumstances of each case, to the British Government. This tribute is frequently due to exchanges of territory or settlement of claims between the Governments, but is chiefly in lieu of former obligations to supply or maintain troops. The actual receipts in the form of tribute and contributions from Native States in the year 1911-12 are summarised in the following table. The relations of the States to one another in respect of tributes are complicated, and it would serve no exclu purpose to enter upon the question. It may, however, be mentioned that a large number of the States of Kathlawar and Gujarat pay tribute of some kind to Baroda, and that Gwalior claims tribute from some of the smaller States of Central India.

STATES PAYING TRIBUTE DIRECTLY TO THE GOVERNMENT OF INDIA.

Tribute from Manipur		1 £ 1	£
	Tribute from Jaipur		_
13,333	Kotah		
## Bundi ## 24,222	" " Udaipur	13,333	
### Contribution of Jodhpur towards cost of Erinpura Irregular Force. " of Kotah towards cost of Deoli Irregular Force 13,333 13,333 10,75		6,533	
State			
Contribution of Jodhpur towards cost of Erinpura Irregular Force 7,667 3,333 10,753	" " Other States	15,170	01 780
Of Kotah towards cost of Deoli Irregular Force 13,333 10,753	Contribution of Todhour towards cost of Fringues Incoming Poses	7 007	01,073
Of Bhopal towards cost of Bhopal Levy 10,753 19,713 19,713 5,816 57,279 5,816 5,816 57,279 3,437 142,290	of Watch towards neet of Deali Trrempley Force		
Of Jaora towards cost of United Malwa Contingent 19,711 5,816	of Dhanal towards cost of Bhanal form		
Contributions towards cost of Malwa BAU Corps 5,816 57,279 3,437 142,290 142,290 142,290 142,290 142,290 142,290 15,696 15,	" The sub-Assessment and All Market County and A		
Style="block" Style="block			
Central Provinces and Berar. Total 142,290	•		
Central Provinces and Berar. 15,696	Fees on succession	1	3,437
Central Provinces and Berar. 15,696		!	
Tribute from Shan States Burma. 25,893 33 28,927		l i	142,290
Tributes from Shan States	Central Provinces und Berur.	1.	
Tributes from Shan States	Pribute from various States		15 696
## Bastern Bengal and Assam. Eastern Bengal and Assam. 3,333 13 3,347		!	20,000
## Rangal and Assam. Eastern Bengal and Assam. 3,333 28,927	Tributes from Shan States	29,893	
## Eastern Bengal and Assam. Tribute from Manipur			
Tribute from Manipur			28,927
## Ramral	Eastern Bengal and Assam.	ì	
## Ramral	W. Under Same Marines	0 000	
## Tribute from various States ## S,347 Tribute from various States ## S,483	Domini		
## Tribute from various States United Provinces.	,, ,, tomat		3.847
Tribute from various States	Bengal.		-,
United Provinces.		••••	3,483
Tribute from Benares		j	-
### Rapurthala (Bahraich)			
Punjab. 6,667 3,086 133 9,886 13	Tribute from Benares	12,148	
Tribute from Mandl 6,667 Fees on succession 9,886 Tribute from Travancore 523,333 Tribute from Travancore 233,333 Tribute from Mysore 233,333 Tribute from Mysore 233,333 Bobbay. 13,339 Tribute from Kathiawar 31,129 Tribute from Kathiawar 2,825 Contribution from Baroda State 2,825 Subsidy from Cutch 5,484 Fees on succession 3,457 To.727		8,733	20,882
Tribute from Travancore Southern Mahratta Country Subsidy from Cutch Subsidy from Cutch Subsidy from Cutch Subsidy from Cutch Subsidy from Mahratta Subsidy from Mysore Subsidy from Mysore Subsidy from Mysore Subsidy from Mysore Subsidy from Cutch Subsidy f		0 007	
Madras 133 9,886	., ., .,		
Madras. 9,886			
Madras. S2,207	read on aucocasion		9.886
Peshkash and subsidy from Mysore	Madrus.		•
Cochin 13,339 888 299,768	Tribute from Travancore		
### Travancore ### 209,768 Tribute from Kathiawar ### 209,768 Tribute from Kathiawar ### 2,825 Contribution from Baroda State ### 2,825 Contribution from Baroda State ### 2,825 Contribution from Baroda State ### 2,825 Subsidy from Cutch ### 2,825 Subsidy from Cutch ### 2,825 Subsidy from Cutch ### 3,457 TO.727		233,333	
### Rembay. Tribute from Kathlawar		13,339	
Tribute from Kathlawar Sambay. 31,129 2,825	" " " " Travancore	888	000 840
Tribute from Kathiawar 31,129 2,825 2,008 22,00	Danil an		299,100
, various petty States 2,825 Contribution from Baroda State . 22,068 , Jagirdars, Southern Mahratta Country 5,765 Subsidy from Cutch 5,484 Fees on succession 3,457 70.727		91 190	
Contribution from Baroda State	verious netty States		
Subsidy from Cutch	Contribution from Baroda State	22,068	
Subsidy from Cutch	Jagirdars, Southern Mahratta Country	5,765	
Fees on succession 3,457 70.727	Subsidy from Cutch	5,484	
Grand Total 595.005			70.727
Grand Total	·	<i>;</i> −	505 005
	Grand Total	••••	000.000

L was announced at the Coronation Durbar of 1911 that there would in unture be no Nazarana payments on successions.

Foreign Possessions in India.

torial possessions in the Indian Peninsula.

The Portuguese possessions in India consist of the province of Goa, situated within the limits of the Bombay Presidency, on the Arabian Sea coast; the small territory of Daman on the Gujarat coast, at the entrance to the Gulf of Cambay; and the little island of Diu, lying off the southern extremity of the Kathiawar Peninsula.

GOA.

Goa forms a compact block of territory surrounded by British districts. Savantwadi State lies to the north of it, the Arabian Sea on the west and North Kanara on the south, and the eastern boundary is the range of the Western Ghats, which separates it from the British districts of Belgaum and North Kanara. The extreme length from north to south is 62 miles and the greatest breadth from east to west 40 miles. The territory has a total area west 40 miles. The territory has a total field of 1,301 square miles and comprises the island of Gos, acquired by the Portuguese in 1510; the division of Velhas Conquistas, or old Conquests, comprising the neighbouring districts of Bardez and Salsette, acquired in 1543; and the Novas Conquistas, or New Conquests, comprising the districts of Pernem, Bicholim or Batagram, Satari, Ponda or Antruz, Zambaulim or Panchmal, and Canacona or Advota, acquired in the latter half of the 18th century. The small island of Andijiv, situated opposite the port of Karwar, in the British district of North Kanara, forms administratively a portion of the province of Goa. This was acquired in 1505. The whole country is hilly, dulted in 1600. The minic country, septecially the western portion, the predominating physical feature being the Western Ghats, which besides bounding the country along the north-east and south-east, jut off along the north-east and south-east, jut off westward and spread across the country in a succession of spurs and ridges. There are several conspicuous isolated peaks, of which the highest, Sonsagar, is 3,827 feet high.

The country is intersected by numerous rivers running westward from the Ghats, and the principal eight, which are all navigable, are in size of some importance. Gos possesses a fine harbour, formed by the properties

a fine harbour, formed by the promontaries of Bardez and Salsette. Half-way between these extremities lies the cabo, or cape, which forms the extremity of the island of Goa. This divides the whole bay into two anchorages, known as Aguada and Marmagao. Both are capable of accommodating the largest ship-ping from September to May, but Aguada is virtually closed during the south-west monsoon, owing to the high winds and sea and to soun, owing to the high winds and sea and to the formation of sand bars across the estuary of the Mandavi river, which opens into Aguada. Marmagao is accessible at all times and is therefore the harbour of commercial impor-tance. It is the terminus of the railway run-

Portugal and France both hold small terri-rial possessions in the Indian Peninsula.

The Portuguese possessions in India consist

of 6 per cent, since the census ten years previously. In the Velhas Conquistas 91 per cent. of the population is Christian. In the Novas Conquistas Christians and Hindus are almost equally numerous. The Moslems in the territory are numbered in a few thousands. The Christians still very largely adhere to caste distinctions, claiming to be Brahmans, Charados and low castes, which do not intermarry. cos and low castes, which do not intermarry. The Hindus are largely Maratha and do not differ from those of the adjacent Konkan districts of Bombay. All classes of the people, with the exception of Europeans, use the Konkani dialect of Marathi, with some admixture of Portuguese words. The official language is Portuguese, which is commonly spoken in the cantila and the principal towns as well as by all educated people. Nearly all the Christians profess the Roman Catholic reli-gion and are spiritually subject to an achgion and are spiritually subject to an archi-bishop, who has the titles of Primate of the East and Patriarch of the East Indies and exercises ecclesiastical jurisdiction also over a great portion of British India. (The Chris-tians of Daman and Dlu are subject to a Bishop who bears the titles of Bishop of Daman and Archbishop of Cranganore.) There are numerous churches in Goa, mostly built by the Jesuits and Franciscans prior to the extinction of the religious orders in Portuguese territory. The churches are in charge of secular priests. churches are in charge of secular priests. Hin-dus and Mahomedans now enjoy perfect free-dom in religious matters and have their own places of worship. In the early days of Portuguese rule the worship of Hindu gods in public and the observance of Hindu Jagges were strictly forbidden and rigorously suppressed.

The Country.

One-third of the entire territory of Gos is stated to be under cultivation. A regular land survey was only recently made. The fertility of the soil varies considerably according to quality, situation and water-supply. The Velhas Conquistas are as a rule better cultivated than the Novas Conquistas. In both these divisions a holding of fifteen or sixteen acres would be considered a good sized farm, and the majority of holdings are of smaller extent. The staple produce of the country extent. The staple produce of the country is rice, of which there are two good harvests but the quantity produced is barely sufficient to meet the needs of the population for two thirds of the year. Next to rice, the culture of cocoanut palms is deemed most important. from the variety of uses to which the products are applied. Hilly places and inferior soils are set apart for the cultivation of cereals and several kinds of fruits and vegetables are cultivated to an important extent. The condition of the agricultural classes in the Velhas Contance. It is the terminus of the railway running to the coast from the inland British system of lines, a breakwater and port have been
built there and the trade is considerable, being
chiefly transit trade from British territory.

The People.

The total population in the whole Goa territory was 475,513 at the census of 1900. This Stately forests are found in the Novas Conquistas. They cover an area of 116 square; miles and are under conservation and yield some profit to the administration. Iron is found in parts of the territory, but has not been seriously worked. Manganese also exists and was worked to an important extent a few years ago.

Commerce.

In the days of its glory, Goa was the chief entrepot of commerce between East and West and was specially famous for its trade in horses with the Persian Gulf. It lost its commercial importance with the downfall of the Portuguese empire and its trade is now insignificant. Few empire and its trace is now insignificant. Frew manufacturing industries of any moment exist, and most manufactured articles in use are imported. Exports chiefly consist of cocoanuts, betel nuts, mangoes and other fruits and raw produce. A line of railway connects Marmagao with the Madras and Southern Maratha Railway. Its length from Marmagao to Castle Rock, above the Ghats, where it joins the British system, is 51 miles, of which 49 are in Portuguese territory. The railway is under the management of the Madras and Southern Maratha Railway administration, and the bulk of the trade of Marmagao port is what it brings down from and takes to the interior. The telegraphs in Goa territory are worked as part of the system of British India, and are maintained jointly by the Brisch and Portuguese Governments. The Goa tish and Portuguese Governments. The Goa territory was formerly subject to devastating famines and the people now suffer heavy losses in times of drought. They are then supplied, though at great cost, with rice from British territory.

The Capital.

Nova Goa, the present capital of Portuguese India, comprehends Panjim and Ribandar, as well as the old city of Goa, and is six miles in extent. Old Goa is some five miles distant from the new city. Panjim occupies a narrow strip of land leading up to the Cabo, the cape dividing the Aguada bay from that of Marmaga, and mainly slopes down to the edge of the Aguada. It was selected as the residence of the Portuguese Viceroy in 1759, and in 1843 it was raised to its present rank as the capital of Portuguese India. The appearance of the rity, with its row of public buildings and elegant private residences, as seen from the water, is very picturesque and this impression is not belied by a closer inspection of its neat and spacious roads, bordered by decent, tidy houses. The most imposing public structures are the barracks, an immense quadrangular building the eastern wing of which accommodates the Lyceum, the Public Library and the Government Press. Other noticeable buildings are the Cathedral and various churches, the vice-regal palace, the High Court and so on. The square in the lower part of the town is adorned with a life-sized statue of Albuquerque standing under a canopy.

History.

Goa was captured for the Portuguese by Alfonso de Albuquerque in 1510. Albuquerque promptly fortified the place and established Portuguese rule on a firm basis. From this time Goa rapidly rose in importance and be Secretary, the Archbishop of Goa or, in his came the metropolis of Portuguese power in absence, the chief ecclesiastical authority the East. There was constant fighting with exercising his functions, the Judges of the

the armies of the Bijapur kingdom, but the Portuguese held their own and gained the surrounding territory now known as the Velhas Conquistas.

The subsequent history of the town is one of luxury, estentation and decay. Gos reached its summit of prosperity at the end of the sixteenth century. The accounts of travellers show that the Gos of those days presented a scene of military, ecclesiastical and commer-cial magnificence which has had no parallel in the British capitals of India. But the Portuguese based their dominion in India on conquest by the sword and they laboured to consolidate it by a proselytizing organisation which throws the missionary efforts of every other European power in India into the shade. Old Goa, as the ruins of the old capital are called to-day, had a hundred churches, many of them of magnificent proportions, and the Inquisition was a power in the land. The Inquisition was a power in the land. The result showed how rotten was this basis and how feebly cemented the superstructure reared upon it.

After the genius of Albuquerque and the After the genus of Albuquerque and meereries of the early Viceroys had spent themselves, their armics constituted a vast idle population in the capital. The work of conquest was over and it left behind it a gay and wealthy city of conquerors who had nothing to do.

Modern Times.

The Portuguese were unable to hold their own against the native banditti. There was frequently recurring fighting and in 1741 the Marathas invaded the neighbourhood of Goa and threatened the city itself. An army of 12,000 men arrived from Portugal at the critical moment. The invaders were beaten off, and the Novas Conquistas were added to the Portuguese possessions. In 1844 the shelter given by Goa to fugitives from justice in British territory threatened to bring about a rupture with the British Government at Bombay. In 1852 the Ranes of Satarl, in the Novas Conquistas revolted. In 1871 the native army in Goa mutinied and the king's own brother came from Lisbon to deal with the trouble and having done so disbanded the native army, which has never been reconsti-tuted. But another outbreak among the troops took place in 1895 and the Ranes joining them the trouble was again not quieted until the arrival of another special expedition from Lisbon. The Ranes again broke out in 1901 and again in 1912, troops being again imported to deal with the last outbreak, which was only reported concluded in the summer of 1913.

Administration.

Goa is regarded as an integral portion of the croas is regarded as an integral portion of the Portuguese Empire and, with Daman and Diu, forms for administrative purposes one province subject to a Governor-General, who is appointed directly by the Lisbon Government and holds office for five years. Besides the literature was the fortuged with a paragram. his civil functions, he is invested with supreme military authority in the province.

The Governor-General is aided in his ad-

ministration by a Council composed of a Chief

High Court, the two highest military officers in Goa, the Attorney-General, the Inspector da Fazenda, the Health Officer and the Presi-dent of the Municipal Chamber or Corporation of the capital (Camara Municipal das Ilhas), which is the oldest Municipal body in the East. As a rule, all the members give their opinions and vote in every matter on which they are consuited by the Governor-General. There are five other juntas, or councils, called the Junta Geral da Provincia (general council the province), the Conselho da Provincia of the province), the Conselho tration there are subordinate agen Technico das Obras publicas, the Conselho local government of every district.

Inspector de Instruccao publica, and the Conselho da Agricultura. The first of these is composed of the Chief Secretary, the Archbishop or his substitute, the Attorney-General the Inspector da Farenda. of Public Works, the Health Officer a Professor of the Medico-Surgical College, a Professor of the Lyceum, or educational College, a Pro-fessor of the Normal School and a representative from each of the Municipal Corporations of the province.

In addition to this machinery of administration there are subordinate agencies for the

DAMAN.

trance to the Gulf of Cambay, about 100 miles trance to the Gulf of Cambay, about 100 miles morth of Bombay. It is composed of two portions, namely, Daman proper, lying on the coast, and the detached pargana of Nagar Havili, separated from it by a narrow strip of British territory and bisected by the B. B. & C. I. Railway. Daman proper contains an area of 22 square miles and 26 villages and has a population (1900) of 17,391. Nagar Havili has an area of 60 square miles and a population (1900) of 24,280. The town of Daman was asked by the Portuguese in 1531. rebuilt was sacked by the Portuguese in 1531, rebuilt by the natives and retaken by the Portuguese in 1558, when they made it one of their permanent establishments in India. They converted the mosque into a church and have since built eight other places of worship. Of the total population the number of Christians is 1,563. The number of houses is 8,971, according to the same census. The native Christians adopt the European costume, some of the women dressing themselves after the present European fashion, and others following the old style of petticoat and mantle once prevalent in Spain and Portugal.

The settlement of Daman lies at the en- | but despite the ease of cultivation, only onetwentieth part of the territory is under tillage. The principal crops are rice, wheat, the inferior cereals of Gujarat and tobacco. The settlement contains no minerals. There are stately forests in Nagar Havili, and about two-thirds of them consist of teak, but the forests are not conserved and the extent of land covered by each kind of timber has not been determined. Before the decline of Portuguese power in the East, Daman carried on an extensive commerce, especially with the east coast of Africa. In those days it was noted for its dyeing and weaving.

The territory forms for administrative purposes a single district and has a Municipal Chamber and Corporation. It is ruled by a Governor invested with both civil and military functions, subordinate to the Governor-General of Goa. The judicial department is administered by a judge, with an establishment com-posed of a delegate of the Attorney-General and two clerks. In Nagar Havili the greater part of the soil is the property of the Government, from whom the cultivators hold their tenures direct. A tax is levied on all lands whether alienated or the property of the State. The soil of the settlement is moist and fer- The chief sources of revenue are land-tax, tile, especially in the pargana of Nagar Havili, forests, excise and customs duties.

is about seven miles and its breadth, from north to south, two miles. The area is 20 square miles. The population of the town of Diu, from which the island takes its name, is said to have been 50,000 in the days of its commercial prosperity. The total population of the island is according to the census of 1900 is 14,614, of whom 343 were Christians.

Diu is an island lying off the southern ex-emity of the Kathiawar Peninsula, from its commerce. It has now dwindled into in-hich it is separated by a narrow channel significance. The extreme length of the island tremity of the Kathiawar Peninsula, from which it is separated by a narrow channel through a considerable swamp. It has a small but excellent harbour, where vessels can safely ride at anchor in two futhoms of water and owing to the great advantages which its posiowing to the great advantages which its posi-tion offers for trade with Arabia and the Per-sian Gulf, the Portuguese were fired at an early period with a desire to obtain possession of it. This they gained, first by treaty with the Sultan of Gujarat and then by force of

FRENCH POSSESSIONS.

The French possessions in India comprise exemption from taxes and a monopoly of the ve Settlements, with certain dependent lodges. Indian trade for fifty years, After having polots. They aggregate 203 square miles, which will be attempted, without success, to establish ive Settlements, with certain dependent lodges, or plots. They aggregate 203 square miles, and had a total population in 1912 of 282,386. The first French expedition into Indian waters, with a view to open up commercial relations, was attempted in 1603. It was undertaken by private merchants at Rouen, but it failed, as also did several similar attempts which fol-lowed. In 1642 Cardinal Richelleu founded

itself in Madagascar, Colbert's Company again took up the idea of direct trade with India and its President, Caron, founded in 1668 the Comptour, or agency, at Surat. But on finding that city unsuited for a head establishment he seized the harbour of Trincomalee in Cevion lowed. In 1642 Cardinal Richelleu founded the first Campagnic of Orient, but its efforts by retook Trincomalee; and Caron, passing met with no success. Colbert reconstituted over to the Coromandel coast, in 1672 selzed the Company on a larger basis in 1664, granting St. Thome, a Portuguese town adjoining Madras

The ruin of the Company seemed impending when one of its agents, the celebrated Francois Martin, suddenly restored it. Rallying under him a handful of sixty Frenchmen, saved out of the wreck of the settlements at Trincomalee and St. Thome, he took up his abode at Pondicherry, then a small village, which he purchased in 1683 from the Raja of Gingee. He built fortifications, and a trade began to spring up; but he was unable to hold the town against the Dutch. who wrested it from him in 1993, and held it until it was restored to the French by the Peace of Ryswick in 1697. Pondicherry became in this year, and has ever since remained, the most important of the French Settlements in India. Its foundation was contemporaneous with that of Calcutta. Like Calcutta, its site was pur-chased by a European Company from a native prince, and what Job Charnock was to Calcutta Francois Martin proved to Pondicherry. On its restitution to the French by the Peace of Ryswick in 1697, Martin was appointed Governor, and under his able management Pondicherry became an entrepôt of trade.

Chandernagar, in Lower Bengal, had been acquired by the French Company in 1688, by acquired by the French Company in 1000, 199 grant from the Delhi Emperor; Mahe, on the Malabar Coast, was obtained in 1725-6, under the government of M. Lenoir; Karikal, on the Coromandel Coast, under that of M. Duma, in 1739. Yanam, on the coast of the Northern in 1739. Yanam, on the coast of the Northern At Pondicherry the Birth-rate in 1911 Circars, was taken possession of in 1750, and formally ceded to the French two years later.

Administration.

The military command and administration-in-chief of the French possessions in India are m-cnier or the renen possessions in India are vested in a Governor, whose residence is at Pondicherry. The office is at present held by an Acting Governor, who is M. H. Lejeune. He is assisted by a minister of the interior, secretaries in the different administration of the interior. nterior, secretaries in the dinerent administrative departments, and a principal judicial officer. In 1879 local councils and a council general were established, the members being chosen by a sort of universal suffrage within the French territories. Ten municipalities or communal boards were erected under a department of the property of the propert or communal boards were erected under a ceree issued in 1880; namely, at Pondicherry, Oulgaret, Villenour, Bahur, Karikal, La Grande Aldee, Nedungadu, Chandernagar, Mahe and Yanam. On municipal boards natives are entitled to a proportion of the seats. Civil entitled to a proportion of the seats. Civil and criminal courts, courts of first instance, training and a court of appeal compose the judicial machinery. The army and establishments connected with the Governor and his staff at connected with the Governor and his staff at Pondicherry, and those of the local governors or chefs do service at Chandernagar, Yanam, hahe and Karikal, together with other head-

which had for twelve years been in the pos-session of Holland. He was, however, com-pelled to restore it to the Dutch in 1674. quarters charges, necessarily engross a large proportion of the revenue. All the state and dignity of an independent Government, with four dependent ones, have to be maintained. This is effected by rigid economy, and the prestige of the French Government is worthily maintained in the East. Pondicherry is also the scene of considerable religious pomp and missionary activity. It forms the sent of a Prefeture Apostolique, founded in 1828, consisting of a Prefet Apostolique and a body of priests for all French India; and of the Missions Etrangeres, the successors of the Mission du Carnatic founded by the Jesuits in 1776. But the chief field of this mission lies outside the French Settlements; a large proportion of its Christians are British subjects and many of the churches are in British subjects and many of the churches are in British territory. The British rupee is the only legal tender within French territories. A line of railway running via Villenour, from Pondicherry to Villupuram on the South Indian Railway, maintains communication with Madras and the rest of British. munication with Madras and the rest of British India, and Karikal is linked to the same railway by the branch from Peralam. A Chamber of Commerce consisting of fourteen members, nine of them Europeans or persons of European descent, was reorganised in 1879. The capital, Pondicherry, is a very handsome town, and presents, especially from the sea, a striking appearance of French civilisation.

Pondicherry the birth-rate in 1911 42.7, and the death-rate 34.3 per was was 42.7. and the death-rate 34.3 pc. 1,000. There were in 1911,53 primary schools and 4 colleges, all maintained by the Government, with 266 teachers and 6,240 pcplks (1,918 being girls). Local revenue and expenditure (budget of 1913), 1,740,575 rupees; expenditure of France (budget of 1913), 138,000 rupees cutter district debt. outstanding debt, January 1, 1912, 470.400 francs. The principal crops are paddy, ground-nut, and ragi. There are at Pondicherry 5 cotton mills, and at Chandermagar 1 jute mill; the cotton mills have, in all, 1,622 looms and 73,092 spindles, employing 12,020 persons. There are also at work 2 oil factories and a few oil presses for ground nuts 2 loo factories and There are also at work 2 oll factories and a few oil presses for ground nuts, 2 ice factories and a eccoatine factory. The chief exports from Pondicherry are oil seeds. At the ports of Pondicherry, Karikal, and Mahe in 1912 the imports amounted to 9,031,780 francs, and the exports to 37,218,209 francs. At these three ports in 1912, 368 vessels of 784,311 tons entered and 360 of 786,492 tons cleared. Pondicherry is visited by French steamers sailing

PONDICHERRY.

Pondicherry is the chief of the French Settle-ments in India and its capital is the head-quarters of their Governor. It is situated on the Coromandel Coast, 105 miles from Madras by road and 122 by the Villupuram-Pondi-cherry branch of the South Indian Railway.

but was restored in 1699. It was besieged four times by the English. The first slege under Admiral Boscawen in 1748 was unsuccessful. The second, under Eyre Coote in 1761, resulted in the capture of the place, which was restored in 1765. It was again besieged and captured in 1778 by Sir Hector Munro, and the fortifications were demolished in 1779. The place was again restored in 1785 under the Treaty of Versailles of 1783. It was captured a fourth time by Colonel Braithwaite in 1793, and finally restored in 1816.

The Settlement comprises a number of isolated pieces of territory which are cut off from the main part and surrounded by the British District of South Arcot, except where they border on the sea. This fact occasions considerable difficulty in questions connected with crime, land customs and excise. The Collector of South Arcot is empowered to deal

Agent accredited to the French Government, who is usually an officer of the Indian Army. The town is compact, neat and clean, and is divided by a canal into two parts, the Ville blanche and the Ville noire. The Ville blanche has a European appearance, the streets being laid at right angles to one another, with trees along their margins reminding the visitor of continental boulevards, and the houses being constructed with courtyards and embellished with green venetians. All the cross streets lead down to the shore, where a wide promenade facing the sea is again different from anything of its kind in British India. In the middle is a screw-pile pier, which serves, when ships touch at the port, as a point for the landing of cargo, and on holidays as a general promenade for the population. There is no real harbour at Pondicherry; ships lie at a distance of about a mile from the shore, and communication with them is conducted by the usual magula boats of this coast. Feeing Collector of South Arco. is empowered to dear with ordinary correspondence with the French such ordinary correspondence with the French authorities on these and kindred matters, and in this capacity is styled the Special Agent. Dupleix, to whom the place and the French At Pondicherry itself is a British Consular name owed so much.

CHANDERNAGAR.

Hooghly, a short distance below Chinsura. Population (1912) 25,293. The town was permanently occupied by the French in 1688, though previously it had been temporarily occupied by them at a date given as 1672 or occupied by them at a date given as 1672 or 1676. It did not, however, rise to any import-ance till the time of Dupleix. It changed hands between British and French various times during the Napoleonic wars and was finally restored to the French in 1816.

The former grandeur of Chandernagar has disappeared, and at present it is little more than a quiet suburban town with little external trade. The railway station on the East Indian French Administrator.

Chandernagar is situated on the bank of the Railway is just outside French territory 22 coghly, a short distance below Chinsurs. In comparison of the poulation (1912) 25.293. The town was administrative officer is the Administrator emanently occupied by the French in 1688, who is subordinate to the Governor of the coupled by them at a date given as 1672 or of Chandernagar affords unusual facilities 676. It did not, however, rise to any importation of the coupled by them at 67 Dunleix. It changed and for the operations of sungeless in optim and for the operations of smugglers in opium and other excisable articles. Considerable trouble was experienced a few years ago by the escape of political refugees there. The chief public institution is the College Dupleix, formerly called St. Mary's Institution, found ed in 1882 and under the direct control of the

KARIKAL.

Karikal lies on the Coromandel Coast between ants. The country is very fertile, being irrithe Tanjore District of Madras and the Bay of Bengal. The Settlement is divided into three communes, containing 110 villages in all, and covering an area of 53 square miles. all, and covering an area or 55 square miles, It is governed by an Administrator subordinate to the Governor at Pondicherry. The population has in recent years rapidly decreased. In 1883 it was 93,055; in 1891, 70,526; in 1901 56,595 and 1912, 56,579; but the density is still very high, being 1,068 persons per square mile. Kumbakonam is the only taluk in Tandard District which has a biobar density. jore District which has a higher density. Each of the three communes—namely, Karikal, La Grande Aldee, and Nedungadu—possesses a mayor and council. The members are all elected by universal suffrage, but in the muni-cipality of Karikal half the number of seats

gated by seven branches of the Cauvery, be sides many smaller channels.

The capital of the settlement is situated on the north bank of the river Arasalar, about 1½ miles from its mouth. It has a brisk trade in rice with Ceylon, and to a less extent with the Straits Settlements. It has no commerce with France, and very little with other French colonies. The port is merely an open road-stead, provided with a light-house 142 feet high, the light in which has a range of from 8 to 10 miles. Indian labourers emigrate from Karlkal to the French colonies in large numbers. In 1899 Karlies was connected with Paralem In 1899 Karikal was connected with Peralem on the Tanjore District Board Railway. Karicipality of Karikal half the number of seats are reserved for Europeans or their descend. settlement after 1815.

The Indian Frontiers.

By one of the dramatic moves which char- omens of the greatest significance to acterise Asiatic politics, the Indian frontier problem has suddenly changed. For nearly seventy years it was dominated by one obsession, the fear of Russian invasion through Afghanistan. By the Anglo-Russian treaty of 1907 that bogie was laid; whether it will ever be revived none can now say. But the old isolation of India has been so largely broken down; she has been brought into such close contact with the world movements of the West and East, that there is no rest. The North-West has almost ceased to trouble the Indian Foreign Office, but the condition of Persia and the resuscitation of the land route to India have brought problems no less acute in their train.

Lord Curzon epitomised these changes in one of his budget speeches, when he said :-

"I doubt if even the thoughtful public has at all realised the silent but momentous change that is going on, and that will one day have an effect upon India that is at present but dimly discerned. In the old days, and it may almost be said up to the last fifteen years, the foreign relations of India were practically confined to her dealings with Afghanistan, and to the designs or movements of the great Power beyond; and the foreign policy of India had little to do with any other foreign nation. It is true that we had territories or outposts of influence that brought us into contact with Persia and Turkey, and that we had occasional dealings with the Arabian tribes. Now all that is changed; and events are passing which that is changed; and events are passing which are gradually drawing this country, once so isolated and remote, into the vortex of the world's politics, and that will materially affect its future. The change has been due to two reasons. Firstly, as our own dominion has expanded, and our influence upon our frontier consolidated, we have been brought into more direct and frequent relations with the countries lying immediately beyond. For instance, the tying immediately beyond. For instance, the annexation of Upper Burma brought us into contact with an important corner of the Chinese Empire, and created a batch of frontier and other political problems of its own. But the second reason is much more important. the second reason is much more important. Europe has woken up, and is beginning to take a revived interest in Asia. Russia with her vast territories, her great ambitions, and her unarrested advance, has been the pioneer in this movement, and with her and after her have come her competitors, rivals and alies. Thus, as all these foreigners arrive upon the scene and push forward into the vacant spots, we are slowly having a European situation re-created in Asia, with the same figures upon the created in Asia, with the same figures upon the stage. The great European Powers are also becoming the great Asiatic Powers. Already we have Great Britain, Russia, France, Germany and Turkey; and then, in place of all the smaller European kingdoms and principalities, we have the Empires and States of the East, Japan, China, Tibet, Siam, Afghanistan, Persia—only a few of them strong and robust, the majority containing the seeds of inevitable decay. There lie in these events and in this renewed contact or collision, as the case may be, between the East and the West, to lindia. There are few parallels in history to case may be, between the East and the West, to India. There are few parallels in history to

this country."

Duel with Russia.

A sketch of the frontier difficulties of the Indian Government since the British began to assume territorial power in India is really a reflection of the history of Europe. Our earliest dangers were either internal, or came from the sea. The sea menace was not of long duration. The defeat of the Portuguese and the ration. The defeat of the Portuguese and uncounter that us with only one serious rival, the French, and when the sea power of France had the follow of the gallant Suffren, her schemes for dominion broken by the feeble support given to the great Dupleix, and her hopes of advantage in India finally dispersed by the overthrow of Hyder Ali, then the for-eign menace lapsed for well-nigh half a century. Meantime the process of internal consolidation advanced so rapidly that when renewed pressure came from the North, there was no rival to the British in India, and only one considerable military power, the Sikhs under Ranjit Singh. Such were the conditions when fears of Russian intrigues in Afghanistan, and the belief that the Amir Dost Mahomed was lending a ready ear to them, induced the disastrous attempts to set the exiled Shah Shuja on the throne of Afghanistan, and inaugurated the most deplorable episode in Indian frontier policy, the war of 1838. That was the first stage in the long duel between Great Britain and Russia for influence in Central Asia and on the confines of India. There are no pages in British history which are so unpleasant to turn. Our policy may be summed up in a sentence— impotent opposition to the Russlan advance impotent opposition to the Russian advance in Central Asia. Russian policy was much more simple. In part her advance sprang from the inevitable clash of a higher civilisation with a lower; in part, no doubt, her officers were not loth to pay off, by setting us in a fer-ment in Central Asia, scores made on the heightsof Balaclava and at the Berlin Conference. It was not until war was avoided by a hair's breadth that relations began to improve, The Russo-Afghan affray at Penjdeh in 1885 brought both countries to a realisation of what they were nearly fighting over. After that there was a slow improvement. The Russo-Afghan boundaries were delimited. The frontiers on the Pamirs were settled. There were alarums and excursions during the Russo-Japanese war, when erroneous accounts were circulated of great Russian concentrations in Central Asia, and again, when intrigues with Tibet forced Lord Curzon to send the Younghusband Expe-dition to Lhasa. But the ground was gra-dually prepared for the Anglo-Russian Agreement, and since the conclusion of that instru-ment the Frontier question, as it used to be understood, has faded into the background: it has ceased to be an international question, and has descended into a local issue between the Government of India and the Amir of Af-

the closing of these ancient highways. Twenty-two centuries ago, when Alexander set out on his career of conquest, there was an easy high road from Mesopotamia to Seistan, and not a very difficult one to Mekran; and so it came about that migratory movements, either compulsory or voluntary, continued through cen-turies, ever extending their scope till checked by the deserts of the Indian frontier, or the highlands of the Pamirs and Tibet, or the cold wastes of Siberia. Over the broad highway from Europe to India there was for centuries a great restless human tide ever on the move. The closing of this road was due to the eruption of the Afghan, the Turk and the Mongol, and in particular to the final downfall of the Empire of the Khalifs before the destroving hordes of Chenghiz Khan and Tamerlane. A few adventurous travellers make their way to Europe through Turkish Arabistan, or via Persia, or even across the Karakoram or the Pamirs to join the Russian railways. But the only land route for goods is the recently improved cara-van track from Nushki to Meshed through Seistan; and the sea route which was opened by Vasco da Gama has so well served India that until a decade ago only one attempt was made to improve land communications—the abortive proposal for a railway up the Euphrates Valley.

. International Railways.

All this is in process of rapid transformation.

The landward isolation of India is doomed. In a very few years there will be through rail connection from Haidar Pasha, opposite Constantinople, with Baghdad, if not Basra, at the head of the Persian Gulf. It is impossible yet to say what will be the influence on the character of this railway of the Great War now raging between Great Britain, France and Russia on one side, and Germany and Austria-Hungary on the other, especially since Turkey has wantonly thrown herself into the scale against Great Britain and Russia. Prior to the outbreak of the war the Railway was, in all save name a purely German enterprise. The Russians are not content to permit their position to be turned. They have a concession to connect any line which they may build to Teheran with a branch of the Baghdad Railway from Baghdad to the Persian frontier at Khannikin; indeed they are under an obligation to construct it. But their ambitions go farther. They desire to extend their present railhead at Baku right across Persia to connect with the Indian system at Karachi, as a joint Russo-British enterprise. Even if this scheme does not emetroprise. Even it this scheme does not mature railway construction in Persia is inevitable; a British Syndicate is pressing for a line from Muhammerah to the Teheran-Khannikin line at Khoramabad. These changes taken in conjunction with the decay of Persia, are profoundly affecting Indian frontier policy; they constitute the real frontier question to-day.

THE PERSIAN GULF.

The situation in the Persian Gulf, which is | at present the corner stone of the Indian frontier problem, is one of baffling indefiniteness. Our first appearances in these waters was in connection with the long struggle for supremacy with the Portuguese, the French and the Dutch, who had established trading stations there. With the capture and destruction of the great entrepot which the Portuguese had established at Ormuz, and the supersession of the land route by the sea route, coupled with the appearance of anarchy in the interior, the importance of the Gulf declined. The Indian Government remained there primarily to preserve the peace, and this task it has since successfully performed. Piracy, which was as destructive as the ravages of the Barbary corsairs, was stamped out, the Trucial Chiefs who occupy stamped out, the Irucial thiers who occupy the Pirate Coast were gradually brought into close relations with the British Government, and the vessels of the Royal Navy have since kept watch and ward in the Gulf, whilst our Consuls have regulated the external affairs of the Arab rulers on the Arabian Coast.

A Policy of Abnegation.

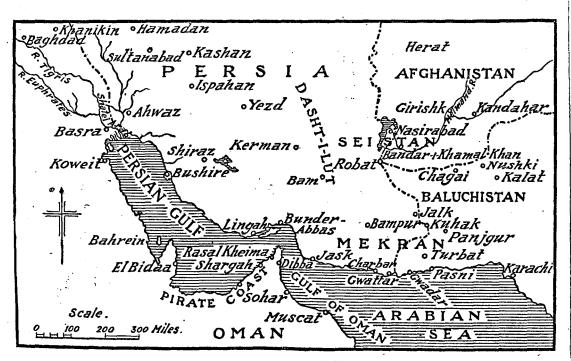
In return for these services Great Britain has claimed no selfsh advantages. The water of the Gulf are as free to the navigation of other flags as to the Red Ensign. The only terri-torial possession is the tiny station of Bassidu. Point after point has at one time or another been occupied by British troops. Muhammerah and the lower valley of the Karun valley were occupied during the war with Persian in 1857. Bushire was long held in the same connection, and still bears marks of our regime in the one tolerable road. The Island of Kharak was locally road. The Island of Kharak was baghdad Railway. Persia, stirred from Teneoccupied from 1838 to 1842, and again in 1867.

We had a military station at Kais during the Pirate wars, and a military and naval station at Kishm from 1820 to 1879. Jask was occupied as a cable station, but subsequently returned to Persia. The only surveys of the waters are British; the only cables are British; the few navigation marks are maintained by the British India Company, and two steamship services, a fast mail service and a slow trading service, are ron by the same corporation.

Apart from these direct acts, Great Britain might at any time have selzed the whole Arabian Coast and the Persian shore. But in pursuit of a resolute self-denying ordinance, she has kept the peace and demanded no reward.

European Intrusions.

Left to herself, Great Britain would desire no other policy. But the affairs of the Persian Gulf have passed into the region of international politics, and the past quarter of a century has witnessed successive efforts to turn the British position. Basing her interference on a treaty which gives her equal rights with Great Britain, France attempted to acquire a coaling station at Jissa, near Maskat, and subsequenty obstructed British efforts to stamp out the slave trade, and the arms traffic, which was supplying weapons of precision to the tribes on our North-Western Frontier. Turkey, whether acting on her own volition, or as the avant courier of Germany, threatened the territory of the Sheikh of Bahrein, who is in special relations with us, and of the Sheikh of Koweit, who owns the only harbour which would make a Guilt terminus of the position. Basing her interference on a treaty



the Shah in Shah was supreme, established a foreign Customs service in the Gulf, and pressed our good friend, the Shelkh of Muhammerah. Russia and Germany sent heavily-subsidised merchant ships into the Gulf, in order to establish trading rights, and posted Consuls, where there was neither trade nor legitimate interest. The last of these machinations, a German attempt to wring a concession from the Sheikh of Shargah, was comparatively recently defeated. The collapse of authority in Persia has raised, in an acute form, the whole future of the Persian shore. In short, the situation has changed from one where the influence of Great Britain was supreme, to one where it is challenged at every point, more especially by the indirect process of commercial strategy, at which a nation, brought up in the traditions of free trade, is handicapped.

The Gulf and the Empire.

With these attacks there has come a closer appreciation of the bearing of the Persian Gulf on the defence of the Indian Empire. The strategic importance of these waters has been laid down by a writer of unchallenged authority and unbiassed mind Writing in the National Review, Admiral Mahan said, "Concession in the Persian Gulf, whether by formal arrangement (with other Powers) or by negarrangement (with other rowers) or by neg-lect of the local commercial interests which now underlie political and military control, will imperil Great 'Britain's naval situation in the Farther East, her political position in India, her commercial interests in both, and the Imperial tie between herself and Australasia." Following this succession Printing lasia." Following this, successive British Gov-vernments have made declarations of policy which are satisfactory, as far as words can go. Speaking in the House of Lords on May 5, 1003, Lord Lansdowne, then Secretary of State for Foreign Affairs, said "We (i. e., His Ma-jesty's Government) should regard the esta-blishment of a naval base or of a fortified port in the Persian Gulf by any other Power as a very grave menace to British interests which we should certainly resist with all the means at our disposal." This declaration of policy has since been endorsed by Sir Edward Grey. But the question which arises is whether, in view of the intrusion of foreign Powers with aggressive designs, and the changing condi-tions on the littoral, the purely ne-gative policy which has hitherto satisfied Great Britain will suffice. It is a hard fact; but a true one, that if British authority disappeared to-morrow, it would leave no other relic than a few consular buildings and the tradition of justice and fair dealing. That is a question which can best be considered after a brief survey of the various jurisdictions which are established in the Gulf.

Maskat.

Maskat, which is reached in about forty-eight hours from Karachi, is outside the Persian Gulf proper. It lies three hundred miles south of Cape Musandim, which is the real entrance to the Gulf, but its natural strength and historical prestige combine to make it inseparable from the politics of the Gulf, with which it has always been intimately associated.

The approach to Maskat is dramatic. The the grantee." The conclusion of the entente with *mail steamer gently feels her way along a coast France put an end to these pinpricks, but one

more black and forbidding even than the ironbound littoral of the Gulf of Suez, which is so familiar to the eastward passenger. Sud-denly there appears on the coast the white houses of the trading settlement of Mattra. which lies to the north of Maskat. Then with a sharp turn the bow of the steamer passes under a gaunt rock painted with the names of the warships which have visited Maskat for half a century, and enters the landlocked harbour. Twin fortresses erected by the Portuguese command the heights which overlook the town; the town itself clusters on the shore and climbs the high ground behind it, and it-self is shut off from the Arabian desert by a stout wall on the landward side. Formerly Maskat was part of a domain which embraced Zanzibar, and the Islands of Kishm and Larak, with Bunder Abbas on the Persian shore. Zanzibar was separated from it by agreement, and the Persians succeeded in establishing their authority over the possessions on the eastern shore. Sultan Syed Feyzul, the intelligent Arab ruler, who reigned over Maskat only, though he claimed a shadowy suzerainty over the chiefs on the coast of Oman, died in October 1913.

The relations between Britain and Maskat have been intimate for a century and more. It was under British auspices that the separation between Zanzibar and Maskat was effected, the Sheikh accepted a British subsidy in return for the suppression of the slave trade and in 1892 scaled his dependence upon us by and in 1892 search ins dependence upon us by concluding a treaty pledging himself not to cede any part of his territory without our consent. Foreign intrigues with Maskat did not commence until 1894, when the French, in pursuit of the pin-pricking policy through which they were averaging Egypt, and perhaps to assist Russia, established a consulate there. The Sultan was induced to cede to France a coaling station at Jissa, but this was such a clear violation of the Treaty of 1892 that it could not make good, and France had to accept the poor alternative of a leased depot. A more serious dispute arose over the use of the French flag to cover the slave trade. Native the French nagro cover the slave trade. Native craft would secure the protection of the French flag by registering at Jibutil, and then defy the Sultan of Maskat, and they were enabled to traffic in slaves with impunity, inasmuch as there was rarely a French warship in the neighbourhood to search them. In April 1903 the trouble came to a head, and the French flagship Infernet was sent to Maskat to demand the release of dhows which had been arrested for a flagrant breach of the quarantine rules. This emphasised the necessity of a permanent settlement, and the question was referred to the Hague Tribunal, and a working compromise arranged. It was adjudged by the Hague tribu-nal in 1905 that "after January 2, 1892. France was not entitled to authorise vessels belonging to subjects of H. H. the Sultan of Maskat to fly the French flag," except on condition that their "owners or fitters-out had established, or should establish, that they had been considered and treated by France as her protéges before the year 1863," though "owners of dhows who before 1892 had been authorised by France to fly the French flag retained this authorisation as long as France renewed it to the grantee." The conclusion of the entente with

important issue remained outstanding until 1914. every year on a tour of inspection. The German France claimed under the Anglo-French Treaty of 1862 freedom of trade with Maskat. There was carried on for years a lucrative arms traffic with the Gulf, rifes and ammunition being shipped from Europe to Maskat, and thence distributed all over the littoral and even to the North-West Frontier of India. The extent of this evil compelled the British Government to intervene, and elaborate arrangements were made to check the traffic by arresting the dhows carrying arms and by harrying the gunrunners ashore. This is more fully considered under Gunrunning (q. v.) In effect, the British warships had to witness the dumping of cargoes on the shore at Maskat, see them loaded into dhows, and trust to their own vigilance to arrest these consignments on the high seas. Prompted by the Colonial Party, the French Government refused to yield one jot of their treaty rights, in the hope that Great Britain would buy them out by surrenders at Gambia. The difficulty was largely overcome by the establishment of a bonded warehouse for arms at Maskat, where all consignments have to be deposited, and whence they are only issued under certificates of destination; and by an agreement negotiated in 1914 the French Government recognised the new Arms Traffic Regulations and abandoned the privileges and immunities secured to them by Treaty. Compensation was paid by the British Government to those French merchants whose stocks were rendered valueless by the Regulations.

The present troubles of the Sultan of Maskat are domestic rather than external. His hold over the tribesmen outside the city is pre-carious. In May 1913 the principal Ibadi Sheikh, Abdullah-bin-Hamidas Salimi, rose in revolt, defeated the Sultan's troops, and threatened the capital, which was protected by Indian Troops. During April they occupied by indian Though Jaming April 199 Society of the ports at Kuriyat and Barba, and were dislodged by a bombardment from H. M. Ships. The probability of such protection being required will always have to be faced.

British Consul, Lt.-Col. R. A. E. Benn. Agency Surgeon, Capt. A. N. Dickson. I. M. S.

The Pirate Coast.

Turning Cape Musandim and entering the Gulf Proper, we pass the Pirate Coast, con-trolled by the six Trucial Chiefs. The ill-name of this territory has now ceased to have any meaning, but in the early days it had a very real relation to the actual conditions. The pirates were the boldest of their kind, and they did not hesitate to attack on occasion, and not always without success, the Company's ships of war. Large expeditions were fitted out to break their power, with such success that since 1820 no considerable punitive measures have been necessary. The Trucial Chiefs are bound to Great Britain by a series of engagements, beginning with 1806 and ending with the perpetual treaty of 1853 by which they bound themselves to avoid all hostilities at sea, and the subsequent treaty of 1873 by which they undertook to prohibit altogether the traffic in slaves. The relations of the Trucial Chiefs are controlled by the British Resi- of Koweit lies solely in the fact that it is the dent at Bushire, who visits the Pirate Coast one possible Gulf terminus of the Baghdad.

attempt to obtain a concession from the Sheikh of Shargarh has been mentioned. A more serious question arose in 1912 when a landing party from H. M. S. Fox, searching for contraband arms at Debai, was fired at by the resident Arabs and five men killed and nine wounded. The Sheikh made ample amends to the British Resident, and submitted to a fine. There was at first the suspicion that this emeute arose from the spread of pan-Islamism on the coast, studiously fostered from Constantinople, and that it indicated a weakening respect for British authority. But fuller enquiries tended to show that it arose from an unfortunate series of misunderstandings. The commercial importance of the Pirate Coast is increasing through the rise of Debai. Formerly Lingah was the entrepot for this trade, but the exactions of the Belgian Customs officials in the employ of Persia has driven this traffic from Lingah to Debai. The Trucial Chiefs are— Debai, Abu Thabee, Shargah, Ajman, Um-al-Gawain and Ras-el-Kheyma.

Bahrein.

North of the Pirate Coast lies the little archipelago which forms the chiefship of the Sheikh' of Bahrein. Of this group of islands only those of Bahrein and Maharak are of any size, but their importance is out of all proportion to their extent. This is the great centre of the Gulf pearl fishery, which, in a good year, may be worth half a million pounds sterling. The anchorage is wretched, and at certain states of the tide ships have to lie four miles from the shore, which is not even approachable by boats, and passengers, mails and cargo have to be landed in on the donkeys for which Bahrein is famous. But this notwithstanding the trade of the port is valued at over a million and a quarter sterling, and the customs revenue, which amounts to some eighty thousand pounds, makes the Sheikh the richest ruler in the Gulf.

Bahrein has passed through more than usually chequered experiences. Not the least formidable of these are the efforts of the Turks to threaten its independence. These took definite form in the third quarter of the last century, when Midhat Pasha, Vali of Basra, occupied the promontory of El Kater, as well as El Katif, over against Bahrein, and converted El Hasa into a district. The war with Russia put an end to these designs, but they were revived and the Turks at El Kater are still a menace to Bahrein, but negotiations for their withdrawal are pending. The Sheikh, by the treaty of 1861, entered into special engagements with the British Government, by whom his rights are guaranteed.

In the neighbourhood of Bahrein is the vast burying ground which has hitherto baffled archeologists. The generally accepted theory is that they are relies of the Phoenicians, who are known to have traded in these waters.

Political Agent, Major A. P. Trevor.

Koweit.

In the north-west corner of the Gulf lies the port which has made more stir than any place of similar size in the world. The importance Railway. This is no new discovery, for when the Euphrates Valley Railway was under discussion. General Chesney selected it under the alternative name of the Grane-so called from the resemblance of the formation of the Bay to a pair of horns—as the sea terminus of the line. Nowhere else would Koweit be called a good or a promising port. The Bay is 20 miles deep and 5 miles broad, but so shallow that heavy expense would have to be incurred to render it sultable for -modern ocean-going steamers. It is sheltered from all but the westerly winds, and the clean thriving town is peopled by some 20,000 inhabitants, chiefly dependent on the sea, for the mariners of Kowelt are noted for their boldness and hardihood.

The political status of Koweit would baffle the ingenuity of the international jurist to find a definition. Nominally the Shelkh owns allegiance to the Sultan of Turkey, from whom he has accepted the honorary title of Kaimakam, or Local Governor. In practice, he has always been independent. In 1993, the Turks attempted to convert their nominal sovereignty into something more actual; but the Sheikh Mubarak approached the British Government and placed his interests under their special pro-tection. When, however, the German sur-veyors earmarked Koweit for the terminus of their line, the position of the Sheikh was indirectly attacked. To the north of Koweit there is a deep indentation in the lowlying shore chiefly occupied by the swampy island of Bubyan. Here a long narrow channel runs to Umm Khasa, the Khor Abdulla. It is some-times held to be an alternative to Koweit as a Gult Terminus, and with a view to earmarking it, the Turks have established military posts at Umm Khasa and on Bubyan Island. Threatened by domestic feuds, raids by sea, and attack by land, Sheikh Mubarak, with a British backing, has fended off all assaults on his position, and with realisation of the fact that Basra must, in any circumstances, be the commercial terminus of the Baghdad Railway, the importance of Koweit has tended to recede.

Pollical Agent, Lt. Col. W. G. Grey.

Muhammerah

On the opposite side of the entrance to the Shatt-el-Arab lie the territories of a Shelkh who stands to the Persian Government in much the same relation as does Sheikh Mubarak of Koweit to the Government of Turkey—Sheikh Khazzal of Muhammerah. Nominally, he is subject to Teheran, on whose behalf he governs his territories as Governor; in practice he is more like a semi-independent vassal. In personal characteristics, too, Sheikh Khazzal has much in common with Mubarak; he has proved that he possesses many of the qualities of an administrator, and has resisted Persian encroachments on his authority in all directions save one-despite his strong antipathy to the agents of a centralised government, the Persians have installed an officer of their Belgian Customs service at Muhammerah. The town,

of Bushire and Shiraz. This importance has grown since the Anglo-Persian Oil Company established refinerles at Muhammerah for the oil which they win in the rich fields which they oil which they win in the rich neits which they have tapped near Ahwaz. Its importance will be still further accentuated, if the scheme for a rallway to Khorremabad by way of Dizful matures. A concession for a road by this route has long been held by a British Company, and surveys for a railway are being made. There is a tacit assurance from the Persian Government that if a practicable scheme is put forward, they will facilitate the work. Such a line, meeting the projected branch from Teheran to Khannikin, would intercept the trade of Central Persia and make Muhammerah the principal outlet for the commerce of the country. Shelkh Khazzal is believed to have formed an excellent working understanding with his rother chief across the water, and as the head of the great Kaab tribe he is no mean power in south-western Persia.

Consul at Ahwaz, Captain A. J. H. Grey, Consul for Arabistan (Muhammerah), Major L. B. H. Haworth.

Basra.

In a sense Basra and Turkish Arabistan can hardly be said to come within the scope of the frontiers of India, yet they are so indissolubly associated with the politics of the Gulf that they must be considered in relation thereto. Basra is the inevitable sea terminus of the Baghdad Railway. It stands on the Shatt-el-Arab, sixty niles from its mouth, favourably situated to receive the whole water-borne trade of the Tigris and Euphrates Rivers. This is already considerable, although Turkish obstruction has closed the Euphrates to navigation, as well as the Tigris above Baghdad-between Basra and Baghdad there are two services of river steamers, one controlled by Messrs. Lynch Brothers and the other by a Turkish Company. The local traffic is valuable, for the richness of the date groves on either side of the Shattel-Arab is indescribable, there is a considerable entrepot traffic, whi st Basra is the port of entry for Baghdad and for the trade with Persia, which follows the caravan route via Kerman-shah and Hamadan. When the Baghdad Railway is open, Basra must absorb the whole trade of the eastern zone, that is the trade which finds an easier outlet on the east than at Alexandretta on the Mediterranean. That is andretta on the Mediterranean. That is without taking account of the possibilities of the Irrigation scheme prepared by Sir William Willcocks, which should revive the glories of ancient Mesopotamia, and make Arabistan another Egypt. Even now ocean-going steamers trade regularly with Basra and load ranio in bulk from its wharves. The one obstacle to the development of the port is the bar at the entrance to the Shatfel-lamb where there are entrance to the Shatt-el-Arab, where there are no more than ten feet of water at low tide, and where steamers drawing more than sixteen to eighteen feet have, even at high tide, to dissians have installed an officer of their Beigian cighteen feet have, even at high tide, to dis-foustoms service at Muhammerah. The town, is a farge part of their cargoes into lighters before the control of the Karun River, has grown in importance since the opening of the Karun River route to trade the opening of the Karun River route to trade the opening of the Karun River route by the bar would not be larce, and that done a first the opening of the Karun River route by the bar would not be larce, and that done a first them. This route provides the shortest passage to Ispahan and the central tableland, and salve as extended to the Gulf, it will be for already competes with the older route by way political not for commercial reasons.

Political Resident and H. M. Consul-General for | fields in the neighbourhood Turkish Arabia (Baghdad), vacant.

Residency Surgeon, and Assistant to the
Resident, Captain N. E. H. Scott, I.M.S. British Consul, Mr. F. E. Crow.

The Persian Shore.

The Persian shore presents fewer points of permanent interest. The importance of Bushire is administrative rather than commercial. It is the headquarters of Persian authority, the residence of the British Resident, and the centre of many foreign consuls. It is also the main entrepot for the trade of Shiraz, and competer for that of Ispahan. But the anchorage is wretched and dangerous, the road to Shiraz passes over the notorious kotals which preclude the idea of rail connection, and if ever a railway to the central tableland is opened, the commercial value of Bushire will dwindle to insignificance. Further south lies Lingah, reputed to be the prettiest port on the Persian coast, but its trade is being diverted to Debai on the Pistate Coast. In the narrow channe, which forms the entrance to the Gulf from the Arabica Cas is Punda these bian Sea is Bunder Abbas. Here we are at the key of the Gulf. Bunder Abbas is of some importance as the outlet for the trade of Kerman and Yezd. It is of still more importance as a possible naval base. To the west of the town between the Island of Kishm and the mainland, lie the Clarence Straits which narrow until they are less than three miles in width, and yet contain abundance of water. Here, according to sound naval opinion, there is the possibility of creating a naval base which would command the Gulf. The great obstacle is the climate, which is one of the worst in the world. On the opposite shore, under the shalow of Cape Musandim, lies another sheltered deep-water anchorage, Elphinstone's Inlet, where the climate conditions are equally vile. But between these two points there is the possibility of controlling the Gult just as Gibraltar controls the Meditarranean Forman were Burden Abbert the Gulf just as Gibraltar controls the Mediterrancan. For many years Bunder Abbas loomed large in public discussions as the possible warm water port for which Russia was seeking. Now it has reappeared in connection with the Trans-Persian railway. It is understood that the British Admiralty insist on that line meeting the sea at Bunder Abbas, where it would enter the British zone, and whence, along the Coast of Mekran, it would be commanded from the sea. The Russian concessionaires wish the line to strike the sea much further east either at the actual British frontier, Gwettur, or at Chahbar, where there are belleved to be the makings of a deep-water believed to be the makings of a deep-water port. So far the project has not passed beyond the stage of academic discussion. (q. v. Mekran Railways to India). On the Mekran coast, there is the cable station of Jask, and the possible port of Chabbar, but here Persian authority is for all practicable purposes Railways non-existent, and the British Government steps in when occasion demands.

The Admiralty Oil Contract.

A further complexity was introduced into the position in Southern Persia, and inferentially into Gulf politics when the British Government, on behalf of the British Admiralty entered into partnership with the Anglo-Persian ment, on behalf of the British Admiralty.

The Contract—Under the agreement the entered into partnership with the Anglo-Persian Government are to subscribe for £2,000,000 oil Company for the development of their oil in ordinary shares of the company, £1,000 in

of Malden-t-Naphtun.

The Concession.—The concession which the ompany was formed in 1909 to work was originally obtained in 1901 from the Persian Government by Mr. W. K. D'Arcy. It granted the exclusive right for 60 years "to drill for, produce, pipe, and carry away oil and petroleum products throughout the Persian Empire except in the provinces of Azerbadjan Ghlian Mazendaran, Asdrabad, and Khorassan." The area covered is about 500,000 equare miles. In 1903 a First Exploitation Company was formed as a preliminary with a capital of £600,000, of which £544,000 has been issued: £20,000 in shares in this company was allotted to the Persian Government, as well as £20,000 in cash, rersian Government, as well as 220,000 in cash, in return for the concession. When the Anglo-Persian Company was started in 1909 the actual holding of this Exploitation Company was limited to one square mile in the Maidan-Naphtun field, situated in territory belonging to the Bakhtiari Khans. Under the terms of a separate agreement the latter received 3 per cent. of the shares in any company formed to work oil in their country; and a second subsi-diary company was then created, known as the Bakhtiari Oil Company, with a capital of £400,000, in order to cover the area within their 2.400,000, in order to cover the area within their territory outside the square mile allotted to the First Exploitation Company. In the First Exploitation Company In the Exploitation Company or with Exploitation Company now owns £478,460, or 87-95 per cent, of the capital, and Persian shareholders £65,540 of the capital, and rersian snareholders 200,530 or 12:05 per cent.; in the Bakhitari Company the Anglo-Persian Company owns 2388,000, or 97 per cent. The Persian Covernment is paid a royalty of 16 per cent. on the net yearly profits. The fact that both the Government and the Bakhitari tribes are interested in the prosperity of the company is regarded as an important factor in securing its position in a country otherwise rather unruly.

The Fields.-Oil has so far been found in quantity at Maidan-i-Naphtun, at depths of 1.200 ft. to 1,300 ft., in hard porous limestone, and has been proved at Kasr-i-Shirin; surface indications of petroleum, which are very highly thought of hervisles he will have been proved at the service of the servic thought of, have also been observed at White Oil Springs, Kishm, Daliki, Ahmadi, Rudan Kuh Champa, and other places. The present production of the company is obtained entirely from the Maida-i-Naphtun area, where 30 wells have been drilled; it lies 140 miles N.N.E. of Muhammerah, which is at the junction of the Shatt-al-Arab and Karun rivers. The oil is conveyed 150 miles by pipe-line to the refinery at Abadan, while materials have to be transported to the field by river and across a difficult country by mules. The workings are entirely country by mules. The workings are entirely under the charge of British subjects; the skilled labour is mainly recruited from India, and the unskilled labourers are largely Persians, no difficulty having been experienced in securing an adequate supply. The Bakhtiari Khans "police" the field works and upper sections of the pipe-line, and an agreement has been made with the Sheikh of Muhammerah for the protection of the refinery and the lower section.

preference shares, and £199,000 in debentures, which will bring the aggregate capital in shares and debentures to £4,799,000. The existing ordinary shares are £1,000,000 and preference £999,000 so that under the new arrangement the Government will hold the preponderating of a line drawn from the Afghan frontier to interest in the share capital. The debentures Gazik, Birjand, Kerman and Bunder Abbas, the contractivities account to £00,000. already existing amount to £600,000. The Six already existing amount to £600,000. The Six per cent. Preference shares, which participate to the extent of 2 per cent. in dividends after payment of 6 per cent. on the ordinary, rank equally for voting purposes. The price at which the Admiralty will obtain the oil itself is kept a secret. "The supply contract," says the Admiralty Memorandum, "will be regarded in the public interests as confidential." But it is stated that "provision is made for the supply for a term of years on a favourable scale of price of a reasonable proportion of the total estimated annual requirements of the Admiraity on the present basis of policy of oil con-sumption, and with due allowance for expansumption, and with due allowance for expansion. The contract is for oil only, and the Admiralty will make its own arrangements for transport." The agreement was criticised in some quarters on the ground that it involved the British Government in indefinite committees to its factors. ments in Southern Persia, and that it might be necessary to employ troops to defend Government property on foreign soil, that of Persia. But on the whole the agreement was well received, in the belief that it secured the British Navy an abundant supply of cheap oil fuel. Since the conclusion of the Agreement the storage capacity at Abadan has been very largely increased.

Political Resident in the Persian Gulf, Sir Percy Cox, K.C.I.E., C.S.I.

Second Assistant, Lieut. P. G. Loch.

Residency Surgeon at Bushire, Major J. McPherson.

Consul at Kerman, Captain D. L. R. Lorimer. · Consul at Bunder Abbas and Assistant to the Resident, Captain H. V. Biscoe.

Summary.

From this brief summary of the conditions n the Persian Gulf, it will be seen that the Pritish position is a nebulous one. We have In the Persian Guil, it will be seen that the British position is a nebulous one. We have stamped out piracy, we have kept the peace, we have sought no exclusive privileges, the commerce of these waters is freely open to the ships of all nations. But this policy is in the main negative rather than positive; it is so barren of definite territorial achievements that it is comparable for the attack. It depends for it is singularly open to attack; it depends for its permanent success on the maintenance of the status quo in a part of the world where con- 1914).

All Persia between this line and the delimitation of the Russian zone by a line from Kasri-Shirin, Ispahan, Yezd, and Kakh, to the junc-tion of the Persian Afghan, and Russian frontiers—that is to say the whole of the Persian Gulf littoral—is in the neutral zone. The Agreement made no mention of the Persian Gulf, but with the Convention a letter was published from Sir Edward Grey to the British Ambassador at St. Petersburg, aunouncing that the Persian Gulf lay outside its scope, but that the Russian Government had stated during the negotiations that it did not deny the special interests of Great Britain in the Gulf and it was intimated that Great Britain reasserted them.

At the present time, of course, the politics of the Persian Gulf and of Turkish Arabistan are in a state of uncertainty owing to the war. Before the war broke out, active negotiations were conducted between the British, the Turkish and the German Governments with a view to the regularisation of the whole situation. On more than one occasion it was announced that they were on the verge of completion. The outline of these negotiations was that the Baghdad railway should proceed as far as Basra as a purely German-Turkish enter-Basra without the approval of the British Government. Great British was to receive two directors on the Board to guard against differentiation of rates. The Sheikh of Kowiet was to recognise the suzerainty of Turkey, but he was not to be interfered with, and Turkey was to accept the treaty of 1899. The Turkish post to accept the treaty of 1899. The Turkish post at El Kater, opposite to Bahrein was to be withdrawn, but incessant acts of veiled hostility at Baghdad and Basra in September and October indicated that the attitude of Turkey in the great war could not be relied upon, despite the repeated assurances of neutrality by the Grand Vizier. In October therefore a British-Indian force was sent to the Guif, landing at Bahrein, to be ready for all emergencies. It caused little surprise then when the official announce-ment was received that the Turkish warships in the Black Sea had committed acts of war by firing on Russian ships and bombarding Russian coast towns. The force in the Gulf was immediately raised and Fao, the Turkish post at the entrance to the Shatt-cl-Arab was occupied; afterwards Basra was taken (November

GUNRUNNING IN THE PERSIAN GULF.

The question of gunrunning in the Persian Guif is inseperable from the position on the Morth-Western Frontier, because the copious supplies of modern rifles, with suitable ammunition, from this source have transformed the military value of the tribesmen. Prior to 1897 military value of the tribesmen. Prior to 1897 trukey and Persia rather than Great Britain.

Arms were brought from Europe, France, But after the rising of 1897 these rifles began to



filter into the North-Western Frontier, re-placing the homely jezail. The Sultan of Mas-kat issued a proclamation empowering British and Foreign men of war to search for arms, and the first consignment selzed was in the s. s. Baluchistan. Still the traffic grew, and in 1902 steps were taken to check it through the instrumentality of the Governor of Kerman. As his authority was inconsiderable, in 1907 the Government began to see that the traffic had assumed proportions which could not be neglected. In the year 1907-08 the value of the arms imported into Maskat reached a total of £270,000, and it is estimated that between 1905 and 1911 no fewer than 200,000 rifles and millions of rounds of ammunition reached the Indian borderland through Maskat. In 1909 a rigorous blockade was instituted in the Persian Gulf and the Gulf of Oman.

France and Maskat.

The seat of trouble lay in the French commercial treaty with Maskat, and in the refusal of the French Government to abrogate it, except as the price of concessions in West Africa. Under this treaty arms were openly discharged at Maskat, and dumped down in discharged at Maskat, and dumped down in the town, under the cyes of the British Consular officers and men of war. They were then shipped in dhows across to the Mekran Coast shipped in thows across to the histan coust by Arab dhows, and landed on the Persian shore. There Persian Baluch sirdars received them, and transported them to spots in the interior, where the Afghan caravans were waiting. These caravans were for the most part manned by Ghilzais, who transported the rifles right across Persia and Afghanistan to Kandahar, whence they were distributed throughout the frontier. It is impossible to gauge the extent of the trade, but thirty thousand rifles are reported to have been run to Kandahar in a single year and the supply became so plentiful that it was no longer worthwhile to steal rifles in India, nor to manufacture them in the Kohat Pass.

Naval Blockade.

Forced into indirect measures through the obstruction of France the Government instituted the naval blockade. For this purpose the ships of the East Indies Squadron were supplemented by a number of launches and boat

departure of dhows was communicated by wireless to Jask, thence communicated to the boat cruisers. These followed the dhows who slipped the cordon into shallow waters. Then at Robat, the northern frontier of British Baluchistan, a military post was established to intercept the caravans as they drew near Afghanistan.

Traffic Moribund.

The effect of these measures was so marked that it nearly precipitated a serious outbreak on the North-West Frontier. The Pathans who returned from Mekran Coast about the beginning of June 1910 reported that they had been unable to obtain rifles, because the British ships had put an end to the trade. At the same time cash in advance had been paid for these rifles and the money lay in the possession of the traders at Maskat. Between the rifles and the Mckran Coast, where they could be landed, was the seine of the British cordon. Excitement was rife, and only the exceptional tact of the British Officers prevented an emeute. Further preventive measures were taken to break up the power of Barkhat Khan, taken to break up the power of rakinat kinal, Governor of Biyaban, who had been the most indefatigable of the Baluch Sirdars engaged in the gun running traffic. A small force of Infantry was landed at Gallag on the Mekran Coast and marched "to show themselves" at Bint. Then re-embarking it made a second landing at Sirik at the mouth of the Gaz River and encountering the gun runners at the Pass of Pashak inflicted a sharp reverse upon them. Another episode characteristic of this traffic occurred at Debai on the Pirate Coast when a landing party from H. M. S. "Hyacinth," in December 1910 to search for rifles was actively opposed and five Bluejackets were killed and nine wounded. Under the threat of bombard-ment the Sheikh of Debai submitted to a heavy fine. In 1912, the traffic was brought under still closer control by an arrangement with the Sultan of Maskat by which all arms landed at that port are placed in a bonded warchouse and only issued on a certificate of destination.

The agreement was finally sealed when, in 1914 the French Government recognised the new Arms Traffic Regulations, and abandoned the privileges and immunities secured by Treaty. supplemented by a number of launches and boat cruisers, and a complete system of wireless whose arms were virtually impounded. The established. The Omani and traffic is now dead, though the preventive Pirate coasts were watched by cruisers, and the measures are being only cautiously relaxed.

PERSIA.

The concentration of public attention on the Russia an admirable strategic base for future Persian Gulf has been allowed to obscure the frontier importance of Seistan. Yet it has boen a serious preoccupation with the Govern-ment of India. Seistan lies midway north and south between the point where the frontiers of Russia, Persia and Afghanistan meet at Zulfikar and that where the frontiers of Persia and of our Indian Empire meet on the open sea at Gwattur. It marches on its eastern border with Afghanistan and with Baluchistan, with it the road from Herat to Kandahar, and thon was directed to a more leisurely movement tregion have been only partly developed under Persian misrule. It offers to an aggressive it commands the valley of the Helmand, and

Russia an admirable strategic base for future military operations; it is also midway athwart the track of the shortest line which could be built to connect the Trans-Caspian Railway with the Indian Ocean, and if and when the line from Askabad to Meshed were built, the temptation to extend it through Seistan would be strong. Whilst the gaze of the British was concentrated on the North-West Frontier, and to possible lines of advance through Kandahar to Quetta. and through Kabul to Peshawar, to Quetta, and through Kabul to Peshawar, there can be little doubt that Russian attenPersia.

Anglo-Russian Agreement.

Whether with this purpose or not, Russian intrigue was particularly active in Seistan in the early years of the century. Having Russithe early years of the century. Having Russified Khorassan, her agents moved into Seistan, and through the agency of the Belgian Customs officials, "scientific missions" and an irritating plague cordon, sought to establish influence, and to stifle the British trade which fluence, and to stiffe the British trade which was gradually being built up by way of Nushki. These efforts died down before the presence of the McMahon mission, which, in pursuance of Treaty rights, was demarcating the boundary between Persia and Afghanistan, with special reference to the distribution of the waters of the Helmand. They finally ceased with the conclusion of the Angio-Russian Agraement Since then the international importance. Agreement. Since then the international importance of Seistan has waned. Whether on account of the Agreement, which bars the line of advance through Seistan, or because of the discovery of an easier route, we cannot de-termine, but Russian activities in railway construction have been diverted to the Trans-Persian route, which would take a direct line through Teheran from Baku, and meet the Arabian Sea at Bunder Abbas or Chahbar.

The natural conditions which give to Seistan this strategic importance persist. Meantime British influence is being consolidated through the Seistan trade route. The distance from Quetta to the Seistan border at Killa Robat is 465 miles, most of it dead level, and it has now been provided with fortified posts, dak bungalows, wells, and all facilities for caravan traffic. The railway has been pushed out from Spezand, on the Bolan Railway to Nushki, so as to provide a better starting point for the caravans than Quetta. The value of the trade carried over this route last year was carried over Rs. 25 lakhs.

Text of the Agreement,

This Agreement, which aimed at an amicable settlement of all questions likely to disturb the friendly relations of the two countries in Asia generally, and in Persia, Afghanistan and Tibet in particular, was signed on August Sist, 1907, and officially communicated to the Powers in St. Petersburg on September 24. After reciting the desire of both Governments to maintain the integrity of Persia, and to allow all nations equal facilities for trade in that country, the Convention states that in certain parts, owing to their geographical proximity to their own territories, Great Britain and Russia have special interests. Accordingly (Art. I.): To the north of a line drawn from Kasr-i-Shirin, Isfahan, Yezd and Khakh to the junction of the Russian and Afghanistan frontiers, Great Britain agrees not to seek for itself or its own subjects or those of any other country any political or commercial concessions, such as railway, banking, telegraph, roads, trans-port or insurance, or to oppose the acquisition of such concessions by the Russian Government or its subjects. II. Russia gives a similar undertaking concerning the region to the south of a line extending from the Afghan frontier to Gazik, Birjand, Kerman and Bandar Abbas. III. Russia and Great Britain agree not to oppose, without previous agreement, the grant-

mentioned. All existing concessions in the regions above designated are maintained.

IV. The arrangements by which certain Persian
revenues were pledged for the payment of the loans contracted by the Shah's Government with the Persian Banque d'Escompte and de Prets and the Imperial Bank of Persia before the signing of the Convention are maintained. V. In the event of any irregularities in the redemption or service of these loans Russia may institute a control over the revenues situated within the zone defined by Article I. and Great Britain may do the same in the zone defined by Article II. But before instituting such a control the two Governments agree to a friendly exchange of ideas with a view to determining its nature, and avoiding any action in contravention of the principles of the Convention.

With the Convention a letter was published from Sir E. Grey to the British Ambassador at St. Petersburg announcing that the Persian Gulf lay outside its scope, but that the Russian Government had stated during the negotiations that it did not deny the special interests of Great Britain in the Gulf; and it was intimated that Great Britain re-asserted them.

Chaos in Persia.

So far from improving the domestic situation in Persia, the Convention preluded a condition of thinly disguised anarchy. There was little security for life or property outside the zone commanded by the Russian troops in the North, and in 1913, the Central India Horse, a solitary Indian Regiment sent to Shiraz, was with rawn. A dismal picture of Persian disorder was drawn in the Persian Blue Book published in July, 1913. Lord Curzon, summarising it in a debate in the House of Lords on July 28 said:—"The picture delineated in this Blue-book of Southern Persia is a picture of a country in the throes of dissolution, given up to country in the threes of assolution, given up rapine and brigandage, where trade is at a standstill, where armed bands rove about the country doing as they please, where British officers are fired at and robbed, and in one particular unfortunate case an officer was willed killed; a country where the central Govern-ment is impotent and local government ignored.

"In Northern Persia—and I must discriminate between Northern and Southern Persia—the condittions are very different. I do not say there is no insecurity, but life and property are relatively safe in Northern Persia, and this is owing to the presence of an overwhelming force of Russian troops in that part of the country. Now we have been told many times that the number of Russian troops would presently be reduced and the noble Viscount (Lord Morley) made an impression in the course of debate by reading a categorical assurance, which he said the Russian Government desired to place on record, that such military measures as they were taking in Persia were of a purely provisional nature, and that they had no intention whatever of infringing the conditions of the Anglo-Russian Convention of 1907. 'That.' Anglo-Russian Convention of 1907. the noble Viscount said, 'justifies us in framing Gazik, Birjand, Kerman and Bandar Abbas.

III. Russia and Great Britain agree not to oppose, without previous agreement, the grantleg of concessions to subjects of either country length of the regions situated between the lines above17,500. The Blue-book mentions that not a jointly. In a speech in the Imperial Legisla-single Russian soldier was withdrawn in the twe Council in March the Viceroy took an past year.

Lord Morley thus indicated the Government's policy. "I will put that common policy in seven propositions—(1) maintaining convention; (2) maintaining the independence the gendarmerie in their barracks, and were not of Persia and avoidance of partition and an approach to partition, economical, administrative, geographical, political; (3) while faithful to the stability of our present alliance and to our real engagements we are faithful after the stability of our present alliance also in an equal degree to the good of Persia; of the gendarmerie was the despatch of a British (4) to uphold some form of constitutional Go-expedition to Southern Persia for the restoravernment; (5) to lose no chance of easing the distracted situation in which the Persian Government now is, by counsel, attention, and such assistance as from time to time we may consider it prudent to give; (6) to enable Persia by money or otherwise to restore order on the southern roads; (7) to avoid entangling ourselves in a policy of adventure in Southern Persia. I am inclined to add an eighth proposition, namely, that we must beware of being forced into a position which would offend the opinion and sentiment of Mahomedans in India."

Broadly speaking, the policy of Great Britain is to support the Persian Government in an attempt to re-establish order on the southern trade routes through the agency of a Persian gendarmerie organised by Swedish officers, and to make advances of money for this purpose. Whether that policy will succeed or not remains to be seen; certainly it will not succeed unless the gendarmerie are continuously financed by the British or Russian Governments, or both

optimistic view of the situation. He claimed that the hopes based on the supposition that the Swedish officers and gendarmerie would be common able to restore order on the southern trade ment's poncy. I will put that a policy in seven propositions—(1) maintaining routes had not been disappointed. Despite an the spirit and the letter of the Anglo-Russian affray at Kazerun, when the tribesmen attacked Convention; (2) maintaining the independence the gendamerie in their barracks, and were not tion of order, a policy to which the Government of India had always been firmly opposed. The Persian situation too has been overshadowed by the war. The Persian Government has assured the British Government of its neutrality, and has expressed the hope that the territory of Persta will not become the scene of hostilities.

H. B. M's Consul General and Agent of the Government of India in Khurasan:—Lieut. Colonel T. W. Haig, C. M. G.

Agency Surgeon and ex-officio Assistant to the Consul-General:—Captain H. H. Thorburn, I. M. S.

Military Attache: - Major F. G. Marsh, 9th Gurkha Rifles.

H. B. M's Consul in Sistan and Kain:-Major F. B. Prideaux, C. I. E.

Medical Officer and Vice-Consul:—Captain D. Heron, 1. M. S.

H. B. M's Vice Consul in Birjand:-Mr. R. H. New.

THE INDEPENDENT TERRITORY.

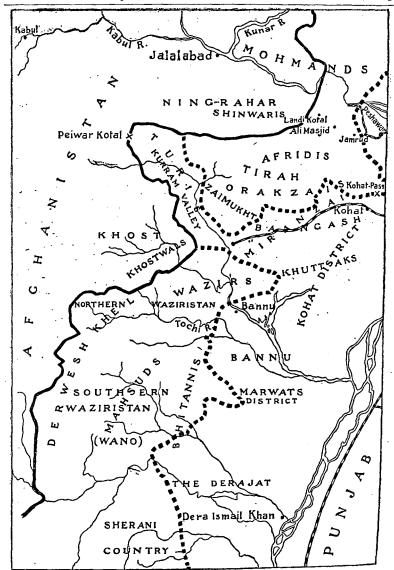
There yet remains a small part of British India where the King's writ does not run. Under what is called the Durand Agreement with the Amir of Afghanistan, the boundary between India and Afghanistan was settled, and it was delimited in 1903. But the Government of India have recommended to the control of India have recommended. ment of India have never occupied up to the border. Between the administered terri-tory and the Durand line there lies a belt of territory of varying widths, extending from the Gomal Pass in the south, to Kashmir in the north; this is generically known as the Independent Territory. Its future is the key-note of the interminable discussions of frontier

policy for nearly half a century.

This is a country of deep valleys and secluded glens, which nature has fenced in with almost inaccessible mountains. It is peopled with maccession mountains. It is peopled with wild tribes of mysterious origin, in whom Afghan, Tartar, Turkoman, Persian, Indian, Arab and Jewish intermingle. They had lived their own lives for centuries, with little intercourse even amongst themselves, and as Sir Valentine Chiral tribus said "the only themselves." lived their own lives for centuries, with lives increases even amongst themselves, and as factics; in the half century which ended in Sir Valentine Chirol truly said "the only bond that ever could unite them in common action was the bond of Islam." It is impossible to leave you will be supposed the following the supposed was the bond of Islam." It is impossible to leave you distribute, and which brought no perunderstand the Frontier problem unless two manent improvement in its train. The fruit understand the Frontier problem unless two facts are steadily borne in mind. The strong-

suffice even in good years to maintain the population. They must fird the means of subsistence outside, either in trade, by service in the Indian Army or in the Frontier Militia; or else in the outlet which hill-men all the world with the control of the control over have utilised from time immemorial, the raiding of the wealthier and more peaceful population of the Plains. Frontier Policy.

The policy of the Government of India toward the Independent Territory has ebbed and flowed in a remarkable degree. It has fluctuated between the Forward School, which fluctuated between the Forward School, which would occupy the frontier up to the confines of Afghanistan, and the school of Masterly Inactivity, which would leave the tribesmen entirely to their own resources, punishing them only when they raided British territory. Behind both the policies lay the menace of a Russian invasion, and that coloured our frontier policy until the Anglo-Russian Agreement. This induced what was called Hit and Retire tactics; in the half century which ended in of the suspicion thus engendered was seen in Tacts are steadily bother in mind. The should be subjected thus engendered was seen in est sentiment amongst these strange people 1897. Then the whole Frontier, from the is the desire to be left alone. They value their Malakand to the Gomal, was ablaze. The extendependence much more than their lives, tent of this rising and the magnitude of the The other factor is that the country does not military measures which were taker to meet



it compelled a consideration of the whole position. The broad outlines of the new policy were laid down in a despatch from the Secretary of State for India, which prescribed for the Government the "limitation of your interference with the tribes, so as to avoid the extension of administrative control over tribal territory." It fell to Lord Curzon to give effect to this policy. The main foundations of his action were to exercise over the tribes the political influence requisite to secure our imperial interests, to pay them subsidies for the performance of specific duties, but to respect their tribal independence and leave them, or hindrance.

As a first step Lord Curzon took the control of the tribes under the direct supervision of the Government of India. Up to this point they had been in charge of the Government of the Punjah, a province whose head is busied with many other concerns. Lord Curzon created in 1901, the North-West Frontier Province, and placed it in charge of a Chief Commissioner with an intimate or a Chief Commissioner with an intimate frontier experience, directly subordinate to the Government of India. This was a revival of a scheme prepared by Lord Lytton in 1877, and often considered afterwards, but which had slipped for lack of driving power. Next Lord Curzon, withdrew the regular troops so far as possible from the advanced posts, and placed these fortalices in charge of tribal levies, officered by a handful of British officers. most successful of these is the Khyber Rifles, which have steadfastly kept the peace of that historic Pass. At the same time the regular troops were cantoned in places whence they troops were canonical in places whence they could quickly move to any danger point, and these bases were connected with the Indian Railway system. In pursuance of this policy frontier railways were run out to Dargai, and a narrow-gauge line, since converted to the broad-gauge, was constructed from Kushal-garh to Kohat at the entrance of the Kohat Pass, and to Thal at the mouth of the Kurram Valley. These rallways are to be completed by lines to Tonk and Bannu. By this means the striking power of the regular forces was greatly increased. Nor was the policy of economic development neglected. The rallways gave a powerful stimulus to trade, and the Lower Swat Canal converted fractious tribesmen into successful agriculturists. thous tribesmen into successin agriculturists. This policy of economic development is receiving a great development through the completion of the Upper Swat Canal (q. v. Irrigation). Now it is completed there are other works awaiting attention.

Greater Peace. So far this policy has been completely justified by results. During Lord Curzon's Vicefied by results. During Lord Curzon's Viceroyalty there was no frontier expedition. The
recalcitrancy of the Mahsud Waziris necessitated punitive measures, but they took the
form of a blockade critics have declared
that the blockade was scarcely distinguishable
that the blockade was scarcely distinguishable
from an expedition, but that is a secondary
matter. It was not until 1908 that the peace
of the border was directly disturbed, and then
the continued receletizancy of the Zakka Khel
tires. The recent part of the Sakka Khel
tires, and two
secondary
here was directly disturbed, and then
the continued receletizancy of the Zakka Khel
tires, the term Pathon is not recisi. It is

sept of the great Afridi tribe compelled the Government to take action. General Willcocks, moving swiftly down the Chura Pass, and Colonel Roos-Keppel taking the Khyber Rifles down the Bazar Valley inflieted such condign punishment on them that they were glad to accept terms of peace negotiated by the main Afridi tribe. A month later, action was necessary against the Mohmands. In this case the rebellious tribesmen were actively supported by Afghan levies, assembled and fitted out in Afghan territory at Lalpura. Two brigades entered their country and defeated them. There was a diversion when lashkars as far as possible, free to govern themselves numbering nearly twenty thousand moved according to their own traditions and to follow up from Afghanistan and threatened the Britheir own inherited habits of life without let tish post of Landi Kotal in the Khyber. They too were driven back into Afghan territory, and the trouble was at an end. The Amir, who had been strangely quiescent, asserted his authority and the irregular warfare waged from Afghan territory ceased.

Policy Justified.

These expeditions have been selzed upon by critics to condemn the present policy. They justify it. Thanks to the confidence engendered by ten years of non-aggression, the disturbed area was localised, the Khyber was kept open, the Afridis lent their aid in concluding peace. For these reasons, when the Government of India proposed the occupation of further strategical points in order to control the Zakka Khels, the Secretary of State wisely imposed his embargo. The strength of the position was still further demonstrated when in 1910 the tribesmen suffered heavy losses in consequence of measures to suppress the arms traffic (q. v. Gun-running). The frontier is always in a state of suppressed ferment. No one knows what will happen to-morrow. But the tribesmen, feeling confident in the knowledge that no attack on their independence is contemplated and growing richer in consequence of the development of trade and agriculture, are more easily handled. With the removal of the Russian menace, or rather its transference to Persia, the importance of the North-West Frontier has tended to subside. There are still heard mutterings of the necessity for a reversion to the forward policy. and for the occupation of the Independent Territory right up to the Durand line. But they are not regarded seriously. The tribesmen are so saturated with rifles and ammunition, as the result of importations from the Persian Gulf, that the task would be long and costly. When it was achieved the frontier problem would only have shifted. Instead of a frontier against the Independent tribesmen. India would have a frontier against Afghanistan, and the problem would still be present, only in an aggravated form.

The frontier afrays which had their origin in Afghanistan are discussed in that section (q.v.). The Utman Khel were guilty of an out-rage in the north of Peshawar district, and two

the continued recalcitrancy of the Zakka Khel tribes, the term Pathan is not racial. It is

used to denote status, and is generally used of element. In the Khyber region the main the Frontier tribes and their connections tribes are the Orakzai and the Afridis, both Furthest to the South, on the borders between fund in the mountainous country south of the the North-West Frontier Province and Balu-Khyber Pass commonly called Tirah; both are the Frontier tribes and their connections. Furthest to the South, on the borders between the North-West Frontier Province and Baluthe North-West Frontier Frovince and Bautchistan, are found the Shiranis, who are an Atghan people. Waziristan is inhabited by the Waziris, who have two main branches, the Mahsud Waziris, found in Southern Waziristan, and the Darwesh Khel Waziris, mostly in Northern Waziristan. The latter have two main sections, the Utmanzal and the Ahmadzai, and

extensively subdivided, the strongest sections of the Orakzai being the Lashkarzai and the Masozai, and of the Afridis the Malik Bin Khel, the Zakka Khel, the Kambar Khel and the Kuki Khel. Between the Khyber Pass and the Kabul River are the Mullagoris, and further south the Mohmands and the Utman Khel. Beyond these are the Yusufzai, who form the these again are subdivided into numerous Beyond these are the Yusufzai, who form the clans. In the Kurram the Turis (who unlike bulk of the inhabitants of Swat and Dir Chitral their neighbours are Shiahs) form the strongest is inhabited by races whose origin is obscure.

AFGHANISTAN.

Empire are dominated by one main consideration—the relation of Afghanistan to a Russian invasion of India. All other considerations are of secondary importance. For nearly three-quarters of a century the attitude of Great Britain toward successive Amils has been dictated by this one factor. It was in order to prevent Afghanistan from coming under the influence of Russia that the first Afghan War of 1838 was fought—the most melancholy episode in Indian frontier history. It was be-cause a Russian envoy was received at Kabul whilst the British representative was turned back at Ali Masjid that the Afghan War of 1878 was waged. Since then the whole end of British policy toward Afghanistan has been to build up a strong independent State, friendly to Britain, which would act as a buffer against Russia, and so to order our frontier policy that we should be in a position to move large forces up, if necessary, to support the Afghans in resisting aggression.

Gates to India.

A knowledge of the trans-frontier geography of India brought home to her administrators the conviction that there were only two main the conviction that there were only two main gates to India—through Afghanistan, the historic route to India, along which successive invasions have poured, and by way of Seistan It has been the purpose of British policy to close them, and of Russian endeavour to keep them at any rate half open. To this end having pushed her trans-Persian railway to Samarkand, Russia thrust a military line from Merv to the Kushklinsky Post, where railway material is collected for its immediate prolongation to Herat. Later, she connected the trans-Siberian railway with the trans-Caucasian system, by the Orenburg-Tashkent line, thus Siberian railway with the trans-Caucasian system, by the Orenburg-Tashkent line, thus bringing Central Asia into direct touch with bringing central Asia into direct touch with her European magazines. She was, until recently, credited with the determination to build the Termes railway, which would menace north-east Afghanistan just as the Kushk-linsky line does north-west Afghanistan. Nor bussay and does north-west Algnanistan. Nor has Great Britain been idle. A great military station has been created at Quetta. This is connected with the Indian rallway system by lines of railway which climb to the Quetta Plateau by the Bolan Pass and through the Chapper Rift, lines which rank amongst the most picturesque and daring in the world most picturesque and daring in the world. From Quetta the line has been carried by the

The relations of Afghanistan with the Indian mpire are dominated by one main consideration—the relation of Afghanistan to a Russian vasion of India. All other considerations considerated to Kandahar. The material is stocked at New Chaman which would enable the line to be carried to Kandahar in sixty days. In view of secondary importance. For nearly of the same menace the whole of Baluchistan has been brought under British control. Quetta is now one of the great strategical positions of the world, and nothing has been left undone which modern military science can achieve to add to its natural strength. In the opinion of many military authorities it firmly closes the western gate to India, either by way of Kandahar, or the direct route through Seistan.

Adnahar, or the direct route through Seletan. Further east the Indian railway system has been carried to Jamrud, at the entrance to the Khyber Pass. A first class military road, sometimes double, sometimes trolle, threads the Pass to our advanced post at Landi Kotal, and then descends until it meets the Afghan and then descends that it here is a fagura-frontier at Tor Khum. Later, a commence-ment was made with the Lof Shilman Rail-way, which, starting from Peshawar, was de-signed to penetrate the Mullagori country and provide an alternative advance to the Khyber for the movement of British troops for the defence of Kabul. For unexplained reasons, this line was suddenly stopped and is now thrust in the air. In this wise the two Powers prepared for the great conflict which was to be fought on the Kandahar-Ghazni-Kabul line.

Relations with India.

Between the advanced posts on either side stands the Kingdom of Afghanistan. The end of British policy has been to make it strong and friendly. In the first particular it has largely succeeded. When the late Abdurrahaman was invited to ascend the throne, as the only means of escape from the tangle of 1879, none realised his great qualities. Previously the Amir of Afghanistan had been the chief of a confederacy of clans. Abdurrahaman made himself master in his own kingdom. By means into which it is not well closely to enter, he beat down opposition until none dared lift a hand against him. Alded by a British sub-sidy of twelve lakhs of rupees a year, increased sidy of twelve lakins of rupees a year, increased to eignteen by the Durand Agreement of 1893, he established a strong standing army and set up arsenals under foreign supervision to funish it with arms and ammunition. Step by step his position was regularised. The Anglo-Russian Boundary Commission,—which nearly precipitated war over the Penjdeh episode in 1885,—determined the northern boundaries. The Pamirs Agreement delimited the borders Khojak tunnel through the Khwaja Amran The Pamirs Agreement delimited the borders Range, until it leads out to the Afghan Border amid those snowy heights. The Durand

gether with two hundred thousand tribal levies. and to leave fifty thousand regulars and irregulars and a hundred thousand levies to maintain order in Kabul and the provinces. But if Afghanistan were made strong, it was not made friendly. Abdurrahaman Khan distrusted British policy up to the day of his death. All that can be said is that he distrusted it less than he distrusted Russia, and if the occasion had arisen for him to make a choice, he would have opposed a Russian advance with all the force at his disposal. He closed his country absolutely against all foreigners, except those who were necessary for the supervision of his arsenals and factories. He refused to accept a British Resident, on the ground that he could not protect him, and British affairs have been entrusted to an Indian agent, who is in a most equivocal position.
At the same time he repeatedly pressed for the right to pass by the Government of India and to establish his own representative at the Court of St. James.

Position To-day.

· It used to be one of the commonplaces of Indian discussion that the system which Abdurrahaman Khan had set up would perish with him, because none other was capable of mainnim, because none other was capable of maintaining it. Abdurnahman Khan died in 1901. His favourite son, Habibullah, who had been gradually initiated into the administration, peacefully retained his seat on the throne. He concluded in 1905 the Dane Treaty, by which he accepted the same obligations on the same terms as his father. He visited India to 1907. he accepted the same obligations on the same terms as his father. He visited India in 1907, and apparently both enjoyed and profitted by his experiences. Since then the purdah which screens Afghanistan has been litted so little that there is no definite knowledge of what has passed behind it. It would however be impossible to describe the attitude of the Amir of friendly. It is said that the becomes here as friendly. It is said that the honours beas trendry. At its said that the monours be-stowed upon him in India, especially the con-ferring of a Royal Title, increased the mega-lomania from which all Afghans suffer. He bitterly resented the conclusion of the Anglo-Russian Agreement, without any prior reference to himself, and has never given his adhesion to it over. His attitude toward the Frontier disturbances of 1907-08 was peculiar. There is no doubt that the Zakka Khel rising was stirred by refugees in Kabul. Thousands of Afghans, equipped in Afghan territory, participated in the Mohmand campaigm. The great lashkar which attacked Land Kotal was entirely composed of Afghans. The most favourable interpretation placed on his conduct is that during his absence in India, followed by a long tour in the northern provinces, the situation in Afghanistan had got out of hand, and the Amir let it take its course until failure occurred, when he stepped in and assumed control of affairs. For the rest, the Russian Agreement, without any prior reference

Agreement settled the border on the British side. Finally the McMahon award closed the old feud with Persia over the distribution of the waters of the Helmand in Seistan. It was estimated by competent authorities that he had of the orthodox party. The adminisabout the time of Abdurrahaman's death, tration of the country is extremely lax. Expansistan was in a position to place in the field, in the event of war, one hundred thousand well-armed regular and irregular troops, to-in 1912, the Mangals of Khost revolted against retreater with two hundred thousand tribal levies. an unpopular governor and besieged him in his own stronghold. There was much talk of the prompt and severe punishment of the rebels, but the troops never reached the valley and the rebels were bought off by the dis-missal of the unpopular governor.

Anglo-Russian Agreement.

Inasmuch as Afghan politics, in their rela-Inasmuch as Argnan pointes, in their reistion to Great Britain, were determined by the Russian menace, they have receded with the conclusion of the Anglo-Russian Agreement. The part of the Anglo-Russian Convention relating to Afghanistan is as follows: I. The British Government disclaims any intention of changing the political position in Afghanistan. and undertakes neither to take measures in Afghanistan, nor to encourage Afghanistan to take measures, threatening Russia. The Russian Government recognises Afghanistan as outside the Russian sphere of influence, and agrees to act in all political relations with Afghanistan through the British Government, and it also undertakes to send no agents to Afghanistan. II. Great Britian adheres to the provisions of the treaty of Kabul of March 21, 1905, and undertakes not to annex or to occupy, contrary to the said treaty, any part of Afghanistan, or to intervene in the internal of Afghanistan, or to intervene in the internal administration. The reservation is made that the Amir shall fulfil the engagements contracted by him in the aforementioned treaty. III. Russian and Afghan officials especially appointed for that purpose on the frontier, or in the frontier provinces, may enter into direct relations in order to settle local questions of a non-political character. IV. Russia and Great Britian declare that they recognise the principle of quality of treatment for commerce and agree that all facilities acquired already or in the future for British and Anglo-Indian commerce and merchants shall be equally applied to Russian Commerce and merchants. applied to Russian Commerce and merchants. V. These arrangements are not to come into force until Great Britain has notified to Russia the Amir's assent to them.

The Amir has never given his adhesion to the Agreement; but Great Britain and Russia

Tibet. 120

Government of India authorised as reprisal the | Major Dodd, Captain G. P. Brown of the 58th arrest and detention of all Khostwals found in British territory pending a settlement of the matter. The Amir immediately ordered the surrender of the British subjects who had been carried off, and the greater number of the out-laws was arrested and despatched to Kabul A much more serious affair occurred on Sunday afternoon, April 12, when an orderly in the service of Major Dodd, Political Agent in Waziristan and Commander of the Southern Waziristan Militia, irritated over a dispute On the outbreak of war His Majesty the Am about the allowance to his cousin, fatally shot immediately declared his complete neutrality.

Rifles, Lieut. G. W. Hickey, 32nd Mountain Battery and three Indian soldiers. The an-nouncement was made in Parliament that the tragedy was an isolated act of fanaticism; but this was a view which did not find confirmation on the Frontier where it was maintained that these Waziristan tragedies could be traced to a powerful faction in Kabul which was willing to encourage in every way fanatics who set out to kill British officers.

On the outbreak of war His Majesty the Amir

mission in 1899. At the end of 1900 he returned to Russia at the head of a Tibetan mis-

sion, of which the head was officially described in Russia as "the senior Tsanite Khomba attached to the Dalai Lama of Tibet." This

mission arrived at Odessa in October 1900.

TIBET.

Recent British po icy in Tibet is really another [Lhasa Dorjieff went to Russia on a confidential phase in the long-drawn-out duel between Great Britain and Russia in Central Asia. The earliest efforts to establish communication with that country were not, of course, inspired by this apprehension. When in 1774 Warren Hastings despatched Bogle on a mission to the Tashi-Lama of Shigatse,—the spiritual equal, if not superior, of the Dalai Lama of Lhasa—his desire was to establish facilities for trade, nis desire was to establish facilities for trade, to open up friendly relations with a Power which was giving us trouble on the frontier, and gradually to pave the way to a good understanding between the two countries. After Warren Hasting's departure from India the Warren Hasting's departure from India the subject slept, and the last Englishman to visit Lhasa, until the Younghusband Expedition of 1904, was the unofficial Manning. In 1885, under the inspiration of Colman Macaulay, of the Bengal Civil Service, a further attempt was made to get into touch with the Tibetans, but it was abandoned in deference to the oppobut it was abandoned in deference to the opposition of the Chinese, whose suzeralnty over Tibet was recognised, and to whose views, until the war with Japan, British statesmen were inclined to pay excessive deference. But the position on the Tibetan frontier continued to be most unsatisfactory. The Tibetans were aggressive and obstructive, and with a view to putting an end to an intolerable situation a Convention was negotiated between view to putting an end to an intolerable situation, a Convention was negotiated between Great Britain and China in 1890. This laid down the boundary between Sikkim and Tibet, it admitted a British protectorate over Sikkim, and paved the way for arrangements for the conduct of trade across the Sikkim-Tibet frontier. These supplementary arrangements provided for the opening of a trade mart at Yatung, on the Tibetan side of the frontier, to which British subjects should have the right of free access, and where there should be no of free access, and where there should be no restrictions on trade. The agreement proved useless in practice, because the Tibetans refused to recognise it, and despite their establishment. ed suzerainty, the Chinese Government were unable to secure respect for it.

and was received in audience by the Tsar at Livadia. Dorjieff returned to Lhasa to report progress. and in 1901 was at St. Petersburg progress, and in 1901 was at St. Fetersburg with a Tibetan mission, where as bearers of an autograph letter from the Dalai Lama they were received by the Tsar at Peterhoff. They were escorted home through Central Asia by a Russian force to which several Intelligence a Kussian force to when soveral intelligence officers were attached. At the time it was rumoured that Dorjieff had, on behalf of the Dalai Lams; concluded a treat with Russia, which virtually placed Tibet under the protectors of Russia. tectorate of Russia. This rumour was afterwards officially contradicted by the Russian Government. The Expedition of 1904. In view of these conditions the Government

Russian Intervention.

In view of these conditions the Government of India, treating the idea of Chinese suzerainty over Tibet as a constitutional fiction, proposed in 1903 to despatch a mission, with an armed escort, to Lhasa to discuss the outstanding questions with the Tibetan authorities on the spot. To this the Home Government could not assent, but agreed, in conjunction with the Chinese Government, to a joint meeting at Khamba Jong, on the Tibetan side of the frontier. Six Francis Younghushand meeting at Knampa Jong, on the Liberan side of the frontier. Sir Francis Younghusband was the British representative, but after months of delay it was ascertained that the Tibetan had no intention of committing themselves. It was therefore agreed that the mission, with a strong escort, should move to Gyantse. On the way the Tibetans developed marked hosti-lity, and there was fighting at Tuna, and several sharp encounters in and around Gyantse. It was therefore decided that the mission should advance to Lhasa, and on August 3rd, 1904, Lhasa was reached. There Sir Francis Younghusband negotiated a convention by which the Tihetans agreed to respect the Chinese Convention of 1890; to open trade marts at Gyantee, Gartok and Yatung; to pay an indemnity of 2500,000 (seventy-five lakhs of rupees); the British to remain in occupation of the Chumbi Valley until this indemnity was paid off at the rate of a lakh of rupees a year. In a separate instrument the Tibetans agreed that the British Trade Agent at Gyantee should have the right to proceed to Lhasa to discuss commercial questions, if necessary. was therefore decided that the mission should Russian intervention.

This was the position when in 1899 Lord Curzon; Viceroy of India, endeavoured to get into direct touch with the Tibetan authorities. Three letters which he addressed to the Dalai Lama were returned unopened, at a time when the Dalai Lama was in direct intercourse with the Tsar of Russia. His emissary was a Siberian Dorjieff, who had established a remarkable ascendancy in the counsels of the Dalai Lama. After a few years' residence at discusse commercial questions, if necessary.

Home Government intervenes.

For reasons which were not apparent at the time, but which have since been made clearer, the Home Government were unable to accept the full terms of this agreement. The indem-nity was reduced from seventy-five lakhs of rupees to twenty-five lakhs, to be paid off in three years, and the occupation of the Chumbi Valley was reduced to that period. The right to despatch the British Trade Agent to Lhasa to despatch the British Trade Agent to Linux was withdrawn. Two years later (June 1906) a Convention was concluded between Great Britain and China regulating the position in Tibet. Under this Convention Great Britain agreed neither to annex Tibetan territory, nor to interfere in the internal administration of Tibet. China undertook not to permit any other foreign State to interfere with the territory or internal administration of Tibet. Great Britain was empowered to lay down telegraph lines to connect the trade stations with India, and it was provided that the provisions of the Convention of 1890, and the Trade Regulations of 1893, remained in force. The Chinese Government ernment paid the indemnity in three years and the Chumbi Valley was evacuated. The only direct result of the Mission was the opening of the three trade marts and the establishment of a British Trade Agent at Gyantse.

The Anglo-Russian Agreement.

The reason underlying the action of the British Government in modifying, in such material particulars, the Convention of Lhasa was apparent later. The Anglo-Russian Agreement was in process of negotiation, and under that Agreement Great Britain was pledging herself not to annex any portion of Tibetan territory, nor to send a representative to Lhasa. A seventy-five year occupation of the Chumbi Valley would have been indistinguishable from annexation. The portions of the Anglo-Russian Agreement which relate to Tibet are as follows.

-Article I.—The two High Contracting Parties engage torespect the territorial integrity of Thet and to abstain from all interference in its internal administration.

Article II. In accordance with the admitted principle of the suzerainty of China over Tibet, Great Britain and Russia engage not to enter into negotiations with Tibet, except through the intermediary of the Chinese Government. This engagement does not exclude the direct relations between the British Commercial Agents and the Tibetan authorities, provided for in Article V of the Convention between Great Britain and Tibet of the 7th September, 1904, and confirmed by the Convention between Great Britain and China of the 27th April 1906; nor does it modify the engagements entered into by Great Britain and China in Article I of the said Convention of 1906.

It is clearly understood that Buddhists, subjects of Great Britain or of Russia, may enter into direct relations on strictly religious matters with the Dalai Lama, and the other representatives of Buddhism in Tibet; the Governments of Great Britain and Russia engage, as far as they are concerned, not to allow those relations to infringe the stipulations of the present arrangement.

Article III.—The British and Russian Governments, respectively, engage not to send Representatives to Lhasa.

Article IV.—The two High Contracting Parties engage neither to seek nor to obtain, whether for thems.lves or for their subjects, any concessions for railways, roads, telegraphs, and mines, or other rights in Tibet.

Article V.—The two Governments agree

Article V.—The two Governments agree that no part of the revenues of Tibet, whether in kind or in cash, shall be pledged or assigned to Great Britain or Russia or to any of their subjects

Annexed to the Agreement was a re-affirmation of the declaration for the evacuation of the Chumbi Valley after the payment of three annual instalments of the indemnity, provided that the trade marts had been effectively opened for three years and that the Tibetans had compiled in all respects with the terms of the Treaty.

Chinese Action.

The sequel to the Anglo-Russian Agreement was dramatic, although it ought not to have been unexpected. On the approach of the Younghusband Mission the Dalai Lama fled to Urga, the sacred city of the Buddhists in Mongolia. He left the internal government of Tibet in confusion, and one of Sir Francis Younghusband's great difficulties was to find Tougnusband's great dimenties was to mid Tibetan officials who would undertake the responsibility of signing the Treaty. Now the suzerainty of China over Tibet had been ex-plicitly reaffirmed. It was asserted that she would be held responsible for the foreign relations of Tibet. In the past this suzerainty having been a "constitutional fiction," it was inevitable that China should take steps to see that she had the power to make her will respected at Lhasa. To this end she proceeded that see may the power to the proceeded to convert Tibet from a vassal state into a province of China. In 1908 Chao Erh-feng, acting Viceroy in the neighbouring province of acting Viceroy in the neighbouring province of acting Viceroy in the neighbouring province of acting Viceroy in the neighbouring province of acting Viceroy in the neighbouring province of acting Viceroy in the neighbouring province of acting Viceroy in the neighbouring province of the pro Szechuen, was appointed Resident in Tibet. Sectioner, was appointed Resident in Inde-rity, marching through eastern Tibet and treating the people with great severity. Mean-time the Dalai Lama, finding his presence at Urga, the seat of another Buddhist Pontifi, irksome, had taken refuge in Si-ning. Thence he proceeded to Peking, where he arrived in 1908, was received by the Court, and despatched to resume his duties at Lhasa. Moving by leisured stages, he arrived there at Christmas 1909. But it was soon apparent that the ideas of the Dalai Lama and of the Chinese Government had little in common. The Dalai Lama expected to resume the temporal and spiritua despotism which he had exercised prior to 1904. The Chinese intended to deprive him of all temporal power and preserve him as a spiritual pope. The Tibetans had elready spiritual pope. The Tibetans had sureauy been exasperated by the pressure of the Chinese soldiery. The report that a strong Chinese force was moving on Lhasa so alarmed the Dalai Lama that he fied from Lhasa, and by the irony of fate sought a refuge in India. He was chased to the frontier by Chinese troops, and took up his abode in Darjeeling, whilst Chinese troops overran Tibet.

Later Stages.

The British Government, acting on the representations of the Government of India,

made strong protests to China against this Resident at Lhasa with a suitable guard. action. They pointed out that Great Britain, semi-autonomous zone was to be constituted while disclaiming any desire to interfere with Eastern Tibet, in which the Chinese positive the internal administration of Tibet, could not was to be relatively much stronger. But ti be indifferent to disturbances in the peace of a country which was a neighbour, on intimate terms with other neighbouring States on our frontier, especially with Nepal, and pressed that an effective Tibetan Government be maintained. The attitude of the Chinese Government was that no more troops had been sent to Thet than were necessary for the preservation of order, that China had no intention of converting Tibet into a province, but that being responsible for the good conduct of Tibet, she must be in a position to see that her wishes a province were separated by the Tibeton. Finally the she must be in a position to see that he were respected by the Tibetans. Finally, the Chinese remarked that the Dalai Lama was such an impossible person that they had been accomplished again to depose him. Here the matter might have rested, but for the revolu-tion in China. That revolution broke out in Szechuen, and one of the first victims was Chao Erh-feng. Cut off from all support from China, surrounded by a hostile and infuriated populace, the Chinese troops in Tibet were in a hopeless case; they surrendered, and sought escape not through China, but through India, by way of Darjeeling and Calcutta. The Dalai Lama returned to Lhasa, and in 1913, in the House of Lords on July 28, Lord Morley stated the policy of the British Government in relation to these changes. He said the declaration of the President of the Chinese Republic saying that Tibet came within the sphere of Chinese internal administration; and that Tibet was to be regarded as on an equal footing with other provinces of China, was met by a very vigorous protest from the British Government. The Chinese Govern-ment subsequently accepted the principle that China is to have no right of active intervention in the internal administration of Tibet, and agreed to the constitution of a conference to discuss the relation of the three countries. This Convention met at Simla when Sir Henry McMahon, Foreign Secretary to the Government of India; Mr. Ivan Chen, representing China; and Mr. Long Chen Shatra, Prime Minister to the Dalai Lama, threshed out these issues. Whilst no official pronouncement has been made on the subject, it is understood that a Convention was initialled in June which recognised the complete autonomy of Tibet proper, with the right of China to maintain a

semi-autonomous zone was to be constituted in Eastern Tibet, in which the Chinese position was to be relatively much stronger. But this Convention, it is understood, has not been ratified by the Chinese Government, owing to the difficulty of defining Outer and Inner

Political Importance of Tibet.

The political importance of Tibet in relation to India has of necessity been changed by the Anglo-Russian Agreement. So long as that instrument is in force, it tends to decline. But no treaties are everlasting. The question has been admirably summed up by Sir Valentine Chirol ("The Middle Eastern Question"), written before the Agreement was reached. "What it would be impossible to view without some concern" he wrote "would be the ascendance of a foreign and possibly hostile power at Lhasa, controlling the policy of a great politico-religious organisation whose influence can and does make itself appreciably felt all along the north-eastern borderland of India. Lhasa is the stronghold of Lamastic Buddhism, a debased form of Buddhism largely overgrown with tantric philosophy—Lhasa is in fact the Rome of Central Asian Buddhism, and the many-storied Po-ta-la on the hill to the west of the city is its Vatican, whence its influence radiates throughout innumerable lamaseries or Buddhist monasteries, not only into Turkes-tan and Mongolia and Western China, but across the Himalayas into the frontier States of our Indian Empire. Corrupt and degraded as it is, it is still unquestionably a power, and just because it is corrupt and degraded it might lend itself more readily to become for a consideration the tool of Russian ambitions.....Tibet as a Russian dependency would, at any rate, no longer be a quantite negligeable, and our north-eastern frontier, naturally formidable as it is, would require to be watched, just as every civilised country has to watch its frontiers, whatever they may be, where they march with a powerful neighbour, and most of all in India, where our frontier is fringed with semi-independent Native States, over which our authority is conditioned mainly on the hitherto unrivalled prestige of our Imperial power in Asia."

British Trade Agent, Yatuny,-D. Macdonald. British Trade Agent, Gyantse,-Vacant.

THE NORTH-EASTERN FRONTIER.

The position on the northern frontier has been considered as it the British line were contiguous with that of Tibet. This is not so. The real frontier States are Kashmir, Nepal, Sikkim and Blutan. From Chitral to Gligit, now the northernmost posts of the Indian Government, to Assam, with the exception of the small wedge between Kashmir and Nepal, where the British district of Wamen is therefore. where the British district of Kumaon is thrust right up to the confines of Tibet, for a distance of nearly fifteen hundred miles there is a narrow of hearty inteen number miles there is a narrow strip of native territory between British India and the true frontier. The first of these frontier States is Kashmir. The characteristics of this State are considered under Native States (q.v.); it is almost the only important Native of the internal administration. The governing machine in Nepal is also peculiar. The Maharaj Ohiraj, who comes from the Sesodia Rajput clan,

The position on the northern frontier has | State in India with frontier responsibilities, and it worthly discharges them through the agency of its efficient Imperial Service troops—four regiments of infantry and two Mountain Batteries, composed mainly of the Rajput Dogras who make excellent fighting material. On of the most important trade routes with Tibe passes through Kashmir—that through Ladak Then we come to the long narrow strip of Nepal This Gurban Stote stands in special relation: This Gurkha State stands in special relation with the British Government. It is for al practical purposes independent, and the British resident at Khatmandu exercises no influence on the internal administration. The governing mathe bluest blood in India, takes no part in the two or three small actions the murderers were administration. All power vests in the Prime delivered up. The cost of the expedition was Minister, who occupies a place equivalent to that of the Mayors of the Palace, or the that of the Mayors of the Palace, or the Sissions were sent to the Mishmi and Miri Shoguns of Japan. The present Prime Minister, countries. Close contact with these forest-clad Six Chandre Shamebar has wighted Proceed. Sir Chandra Shamber, has visited England, and has given conspicuous evidence of his attachment to the British Government. Nepal is the main Indian outpost against Tibet, or against Chinese aggression through Tibet. The triction between the Chinese and the Nepalese used to be frequent, and in the eighteenth century the Chinese marched an army to the confines of Khatmandu-one of the most remarkable military achievements in the history of Asia. Under the firm rule of the present Prime Minister Nepal has been largely free from Minister Nepal has been largely free from internal disturbance, and has been raised to a strong bulwark of India. Nepal is the recruiting ground for the Gurkha Infantry, who form such a splendld part of the fighting arm of the Indian Empire. Beyond Nepal are the smaller States of BHUTAN and SIKKIM, whose rulers are Mongolian by extraction and Buddhists by religion. In view of Chinese aggressions in Tibet, the Government of India in 1910 strengthened their relations. of India in 1910 strengthened their relations or india in 100 strengthened their relations with Bhutan by increasing their subsidy from fifty thousand to a lakh of rupees a year, and taking a guarantee that Blutan would be guided by them in its foreign relations. Afterwards China had officially notified that Great Britain would protect the rights and interests of these States.

Assam and Burma.
We then come to the Assam border tribes—
the Dafias, the Miris, the Abors and the Mishmis. Excepting the Abors none of these tribes have recently given trouble. The murder of Mr. Williamson and Dr. Gregorson by the Minyong Abors in 1911 made necessary an expedition to the Dinang valley of the Abor country on the

and leech-infested hill has not encouraged any desire to establish more intimate relations with them. The area occupied by the Nagasarcs runs northwards from Manipur. The Nagasares a Tibeto-Burman people, devoted to the practice of head hunting, which is still vigorousty prosecuted by the independent tribes. The
Chin Hills is a tract of mountainous country to the south of Manipur. The corner of India from the Assam boundary to the northern boundary of the Shan States is for the most part included in the Myitkyina and Bhamo districts of Burma. Over the greater part of this area, a labyrinth of hills in the north, no direct administrative control is at present exercised. It is peopled by the Shans and the Kachins. Civilisation is said to be progressing and steps have been taken to prevent encroachments from the Chinese side. There is a considerable trade with China through Bhamo. On the Eastern frontier of Burma are the Shan States, with an area of fifty thousand square miles and a population of 1,300,001. These States are still administered by the Sawbwas, or hereditary chiefs, subject to the guidance of Superintendents and Assistant Superintendents. The Northern Shan Railway to Lashio, opened in 1903, was meant to be, a stage in the construction of a direct railway part included in the Myitkyina and Bhamo be a stage in the construction of a direct railway link with China, but this idea has been put aside, for it is seen that there can never be a trade which would justify the heavy expenditure. The Southern Shan States are to be developed by railway connection. The five Karenni States lie on the frontier south of the Shan States. South of Karenni the frontier runs between Siam and the Tenasserim Division to the Dining valley of the Ador country on the Juna Detween than and the Lunascottin Latina. N. E. frontier. A force of 2,500 and about 400 of Burma. The relations between the Indian military police was employed from October Government and the progressive kingdom of 1911 to April 1912 in subduing the tribe. After Siam are excellent.

PERSIAN DEBT TO BRITAIN.

standing debt of the Persian of the British and Indian Government	COTTORN		4-
Portion of Anglo-Indian Loan of 1903-4 (repayable by March.	ž	8.	d.
Anglo-Indian advance of Febru-	814,281	15	4
ary, 1912	100,000	0	0
1912, after defeat of gendar- merie in Fars	25,000	0	0
Anglo-Indian advance of Nov. 1912, for use of Governor-			
General of Fars	15,000	0	0

Anglo-Indian advance of April, 1913, for general purposes of	£	8.	đ
administration, including £30,000 for such purposes in Fars and £10,000 for the Bu- shire Custom House	200,000	0	0
Anglo-Indian advance of May, 1913, for gendarmerie purpo- ses in Fars	100,000	0	0
Total			4

The 1903-5 loan bears interest at 5 per cent., and all other advances bear interest at 7 per 0 | cent.

Railways to India.

The prospect of linking Europe and Asia by a railway running eastwards through Asia Minor has fascinated men's minds for generations. The plans suggested have, owing to the British connection with India, always lain in the direction of lines approaching India. More than 40 years ago a Select Committee of the House of Commons sat for two years to consider the question of a Euphrates Valley rallway. The Shah of Persia applied to the British Foreign Office for the investment of British capital in Persian railway construction many years before the end of the nineteenth century. A proposal was put forward in 1895 for a line of 1,000 miles from Cairo and Port Said to Koweit, at the head of the Persian Gulf. While these projects were in the air, German enterprise stepped in and made a small beginenterprise stepped in and made a small begin-ning by constructing the Anatolian railway system. Its lines start from Scutari, on the southern shore of the Bosphorus, opposite Con-stantinople, and serve the extreme western end of Asia Minor. And upon this foundation was based the Turkish concession to Germans to build the Baghdad Railway.

Meanwhile, Russia was pushing her railways from various directions into the Central Asian territory running along the northern frontiers of Persia and Afghanistan to the borders of of Persia and Agnanistan to the Dorders of Chinese Turkestan. The advance of the Rus-slan railheads was regarded with extreme suspicion in England as part of a scheme of adventure against India, and as the Russlan lines crept southwards British Indian rail-ways were thrust forward to the Indian northwest frontier. As the two systems approached one another, enthusiasts adumbrated plans for linking them together. M. de Lesseps, the creator of the Suez Canal, made a journey to Bombay to lay one before the Indian Government. He was proposing to start home-wards through Afghanistan and Central Asia, so that he might examine a route that way, and via Orenburg to Moscow, when the Afghan wars broke out and ended the dream.

The construction of a Trans-Persian railway, connecting India across Persia, with the Russian lines between the Black Sea and the Caspian Sea has come to the forefront since the conclusion of the Anglo-Russian agreement regarding Persia, and simultaneously with this and the advance of the Baghdad railway old projects for British lines running inland into Persia from the Persian Gulf have been quick-

The actual position in regard to these various undertakings up to the outbreak of the European war was as follows :-

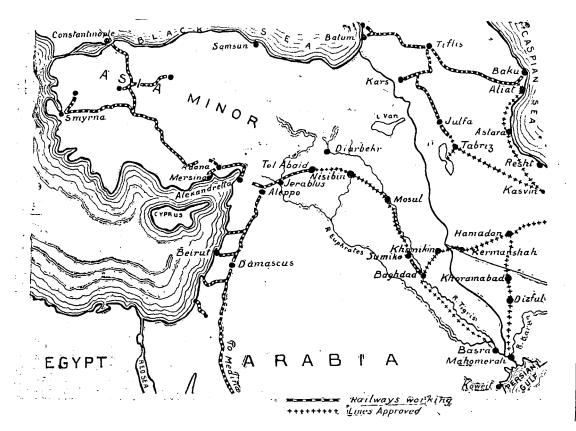
Baghdad Railway.

The German group holding the Anatolian railway concession was granted, in 1902, a further concession for extending that system from Konia, then its southern terminus, through the Taurus range to the extreme eastern Medi-

a Russo-Turkish agreement was passed; reserving to Russia the sole right to construct railways in the northern part of Asia Minor, and Russia has since then prepared a number of projects for that region, branching out from Samsun, on the Black Sea. Russia has also prepared her Caucasian railways for possible extensions in the same region, pushing her lines towards Van and making an agreement with Persia, in February, 1913, for a line to Lake Living. Lake Urumia.

The Anatolian railway company were apparently unable to handle their new concession and initiated fresh negotiations, which resulted in the Baghdad Railway convention of March, 1903. This caused much discussion in England, owing to the apparent intention of the Germans to encroach on the Persian Gulf. Attempts were made by the German group to secure the participation of France and Britain in the undertaking. They were successful in France, the Imperial Ottoman Bank group agreeing to take 30 per cent. of the finance, without, however, the countenance of the French Govnowever, the countenance of the French Government. But in England, though Mr. Balfour's Government was favourable, strong objection was taken to the constitution of the Board of Directors, which established German control in perpetuity. It was regarded as a German political move and participation was rejected.

The financial terms, with a Turkish kilometric guarantee, were highly favourable to metric guarantee, were highly favourable to the company. Thus, the outside cost of con-struction of the first section, which lies entirely in the plains of Konia, is estimated to have been £625,000, and the company retained a profit of at least 1¢ millions sterling on this part of their enterprise. In the second secpart of their enterprise. In the second section the Taurus range is being encountered and construction is more difficult and more costly. The railway must for a long time be a heavy burden on Turkish finance. The country through which it passes from the Mediterranean seaboard to the Tigris valley above Baghdad holds out little or no prospect of commercial advantage, and the financial system adopted offers no inducement to the concessionaires to work for increasing earnings. Thus, the Baghdad railway company sublet the working of the line to the Anatolian sublet the working of the line to the Anatolian Railway Company at a rate of £148 per kilometre, as against £180 per kilometre guaranteed by the Turkish Government. The weight of the Turkish obligations in connection with the railway had an important effect upon the discussions, in Paris in the summer of 1913, of the international committee for the examination of questions relating to the Ottoman debt. The committee was appointed in re-ference to the financial settlement between Turkey and the Balkan States after the war and it became evident that for some Powers, whatever the deserts of the Balkan Allies might be, terranean seaboard, and by way of Nishin, the Mosul and Baghdad to Basra. This concession was substituted for a line projected by a more northerly route through the pass of Diarbekr. Russia strongly objected to that route, on the ground that it would bring the line into the ground that it would bring the line into the Black Sea basin. When it was abandoned,



tical interests in the regions of the Baghdad lines and the French railway system in Syria.

The Baghdad Railway was during 1913 advanced southward from Konia 182 miles, to Karapunar, on the northern slope of the Taurus. On the southern side of the mountains, the Mersina-Adana line had been incorporated and 16 miles of track constructed, from Adana to Dorak, among the southern foothills of the Taurus. Work is now in progress to link up Karapunar and Dorak. The distance between them through the mountains, is 56 miles. The limestone mountain gorges involve much tunnel work and it was estimated that the work would occupy three years.

Eastward from Adana, construction advanced about 65 miles, by the middle of 1913, towards the head of the French Syrian lines at Aleppo, and work was begun on a short branch line connecting this new piece with Alexandretta. The branch was opened to traffic early in 1914. Plans were submitted to the Turkish Government in 1913 for the construction of a new port at Alexandretta, in accordance with the terms of a supplementary concession sanctioning the branch line. These include the construction of three docks, a feature of considerable interest. Work was begun early in 1913 on a line running north-west from Aleppo to meet that coming from Adana. It will have to pierce the Amanus range of hills by a tunnel three miles long, which, it was estimated, would take three years to construct.

Progress has meanwhile been made with the early stages of the line running north-east from Aleppo en route to Baghdad. This line was in 1913 open to Jerablus, on the Euphrates and the construction of a large bridge at that spot was immediately undertaken, while motor boats and a steamer or two were taken in pieces to Jerablus and launched for river traffic to Baghdad. The journey from Beirut to Baghdad was thus reduced to 8½ days, counting two days from Beirut to Jerablus by train, six days by steamer to Feluja, and finally, 10 hours' carriage drive to Baghdad. The river traffic is likely to be interrupted in the dry season. The Jerablus bridge having been completed, the railway was completed and opened on July 1st last as far as Tel Abiad, 60 miles east of Jerablus. Earthwork had already been carried much farther.

Construction was meanwhile carried on the Baghada-Mosul section, material for the latter being taken up-river from Basra to Baghada by special barges and tugs. The line from Baghada to Sunike, about 40 miles north of Baghada was handed over for traffic on June 2nd, 1914. Reckoning all the sections completed and open for traffic, a distance of 497 miles had been finished by the summer of 1913, out of a total of 1,029 miles, reckoning from Konia to Baghada. An official Deutsche Bank report issued in March, 1914, stated that the Balkan wars had caused the German undertaking "to concentrate its Turkish enterprises more than ever upon the Asiatic territories." To this end the Germans handed over their Balkan railway interests to an Austro-Hungarian financial group "on favourable terms," and thus greatly facilitated their special direction of effort in Asia Minor and Mesopotamia.

A satisfactory agreement was reached between Britain and Turkey, with the ac-quiescence of Germany, regarding the approach to the Persian Gulf. Its central provision is that the railway shall not proceed beyond Basra without an agreement with Britain and Britain is making no agreement that it shall proceed beyond Basra. Britain waives any question of her participation in the Baghdad-Basra section of the line. It is agreed that there are to be no differential rates on the railway, and in regard to the latter Britain obtained the right of appointing two directors of the railway, not for purposes of control but to guard British interests. Britain recognises Turkish suzerainty over Koweit and Turkey recog-nises the independence of the Sheikh of Koweit and the continuance, unimpaired, of the pre-sent relationship between him and the British Government. The Anglo-Turkish Agreement has not yet been published but Sir Edward Grey has announced that "we get recognition by Turkey of the status quo in the Persian Gulf, the status quo as we have regarded it for years past." (House of Commons, June 29, 1914). A statement issued in Berlin on June 15, 1914 stated "The Anglo-German Agreement regarding the Baghdad Railway and Mesopotamia has been initialled in London by Sir Edward Grey and Prince Lichnowsky, the German Ambassador. A complete understanding has been reached on all questions at Issue. The agreement will not come into force until after the conclusion of the negotiations with Turkey, as on some material points the assent of the Porte will be necessary. The contents of the Agreement can, therefore, not be divulged at present." Nothing further has been published regarding this aspect of the matter.

Germany also proposes to build a line from Baghdad to Khanikin where a pass through the mountains leads into the West Persian high-lands. Russia has agreed to build a rallway from Khanikin, via Kermanshah and Hamadan to Teheran, construction to begin within two years of the completion of the extension from Baghdad to Khanikin and then to be completed in 4 years.

Trans-Persian Line.

A trans-Persian line to join the Russian Caucasian system with the Indian Railways first assumed proportions of practical importance in the late winter of 1911. Both the Russian and the Indian railways are fully developed up to the points which would be the termini of a trans-Persian line. The Russian railway system reaches Julia on the Russo-Persian border between the Black Sea and the Caspian Sea. A line connecting with this runs from Batum, on the east coast of the Black Sea, to Baku on the west coast of the Treaty of Berlin provides that Batum shall be "a free port essentially commercial". The Persian Foreign Minister on February 6, 1913, signed a concession to the Russian Julia-Tabriz and Enzeli-Teheran Road Companies, giving the right to construct a railway from Julia to Tabriz (93 miles) with an extension to Lake Urumish and a preferential right to build a railway from Tabriz to Kazvin. Julia and Tabriz were at that time equipped with a metalled road, on which a motor omnibus



service is maintained. The road is the proper-|clete d'Etudes was formed. M. G. Raindri; ty of the concessionaire company and if, as seems likely, sections of it are being utilised for railway construction, the work of construc-ting the line will be materially expedited. The railway was to be begun within two years of the granting of the concession and completed within six years and a time limit of eight years is fixed for the extension of the tine from Tabriz to Kazvin, a further dis-tance of 250 miles. The concession runs for a period of seventy-five years. Option is reserved to the Persian Government to purchase the Julia-Tabriz line after a lapse of 35 years. Early in 1914, it was announced in Teheran that the line had been built from Julfa to Darabiz, some 13 miles south of Julfa and news from Russia thus indicated that it would be completed to Tabriz in the spring of 1915. The Russian Government Department of Railways in June 1913, approved a concession to a Russian Syndicate for the construction of the line from a point on the railway close to Baku to Astara, a point on the Caspian south-western seaboard, where the Russian and Persian territories meet. More than one possible starting point for the trans-Persian Railway is therefore in course of preparation.

On the Indian side, the railway system is fully developed up to Baluchistan, close to the Persian frontier. A broad gauge line running through Quetta to Nushki was constructed with the intention of its development for the benefit of trade which already runs by caravan along the "Nushki trade route" to the Persian province of Seistan. The Russian Government favoured linking up the trans-Pererament favoured linking up the trans-Persian railways at this point. But the suspicious saw a strategical reason for this preference. The Indian Government found itself unable to approve the connection. They insist that the line shall run either from 'Yezd or Kerman to the seaboard. This condition is absolute. Theremains, then, a connection with the Indian North-Western Railway at or near Karachi.

The necessary financial arrangements for the preliminary work in connection with the proposal, which came from Russia, to connect the railways with Russia and India were completed in January, 1912. It was then stated that the Russian Committee were already in possession of a nearly complete survey of more than 300 miles from Astara to Teheran and the length of the line from there to Gwadur on the Perso-Baluch Frontier is some 1,200 miles. Soon after this announcement, Mr. Johns was appointed by the Government of India to survey a railway route between Karachi and Gwadur, and found a good line with a general gradient of 1 in 250, the steepest being 1 in 90. Twelve of the principal Russian Banks were interested in the project and the desired amount of English and French capital was guaranteed,

formerly a distinguished member of the French diplomatic service, was selected as President, with Sir William Garstin as British Vice-President and M. Homiakoff, ex-President of the Russian Duma, as Russian Vice-President. The Society consists of a council of administration of 24 persons. The Governments of all three countries gave their approval to the enterprise and on the firm representations of the British Foreign Office a formal memorandum was drawn up providing for absolute equality of British, Russian and French con-trol in the undertaking. It has been agreed that in the northern half Russian interest shall be 60 per cent., French interest 33 1-3 per cent, and British 6 2-3 per cent., and in the southern half Bussian interest 6 2-3 per cent., French 33 1-3 per cent., and British 60 per cent. The total interests of the parties in the whole line will thus be equal. The French and British will thus be equal. The French and Russian proposal was that interests should be equal for the whole line. The above arrangement was made to meet British susceptibilities.

No announcement has yet been made of the settlement of further details in regard to the line. Its general route will presumably be from Astara via Teheran to Kerman or Yezd, and thence to either Bunder Abbas, at the entrance of the Persian Guif, or Chabar, a point on the Mekran Coast, about 100 miles west of Gwadur. As to the cost, £18,700,000 was the amount first declared by Russian experts as sufficient to cover the cost of construction as summer to cover the cost of construction and provision of rolling-stock for the 1,400 miles of railway in Persian territory. English experts then believed that £15,000,000 would be sufficient. Further investigation has led competent experts on the English side to say that the capital involved must eventually total £30,000,000 at least. The line presents no great engineering difficulties, but there would be a great variety of gradients throughout its length, the line will rise at several points to some thousands of feet above sea-level, and numerous detours will be necessary both for gradients and to serve local needs.

Central Asian Lines.

There remains the possibility of linking up the Russian and Indian railway systems by way of Afghanistan. But many strategical objections have been raised to the trans-Persian objections have been raised to the trans-revision railway and these considerations are strength-ened tenfold in regard to bringing the Russian Central Asian lines nearer Kabul. Russia has in recent years considerably increased her railway facilities in Central Asia. The line from Krasnavodsk on the East Caspian shore now extends, via Mery and Bokhara and Samarnow excends, time Mery and Bokhara and Samar-khand, to Andijan, which is some 330 miles north-west of Kashgar, the important town of Chinese Turkestan. The great network of railways in European Russia is also now di-rectly connected by the Orenburg line with one English banking house having even offered to furnish the whole of the English quota. The French concerns are the English quota. The French concerns are the English quota et al. The French concerns are the English quota. The French concerns are the English quota et al. The French concerns are the English quota. The French concerns are the English quotation of the Section Merva I line runs south to Kushk, on the Afghan border, within a few miles of Herat Ranaux.

Meetings of the International financiers on Meetings of the International financiers on meeting to miles or less from Balkh, which, again, is close to the Important strategical point, Mazarpoint at which that river is navigable from the Aral Sea. The suggestion has often seriously been made in recent years that the Russian line from Merv to Herat should be linked to the Indian line which from Quetta proceeds to the Afghan border at Chaman. The distance between the two railheads is about 520 miles.

Persian Gulf Lines.

Britain's special interests in regard to Perincrease a primarily associated with lines running inland from the Persian Gulf, to supersede the old camel routes. Special importance has for many years been attached nuportance has for many years been attached to schemes for a railway from Mohammerah (at the opening of the Karun Valley, where the Karun River runs into the Shat-el-Arab, northwards into the rich highland country of Western Persia. Britain has long established special relations with the Karun Vallau ed special relations with the Karun Valley and has a large trade there. An agreement was reached between the Persian Government and the representative of a British Syndicate in February, 1913, for the construction of a railway from Mohammerah to Khoramabad, in the interior. Persia offered the syndicate a two years' option, during which period the route of the line was to be surveyed. The Persian Government undertook to decide, on the completion of the survey, whether it would build the railway as a State line under contract with the Syndicate, or whether it would grant the Syndicate a concession for the con-struction of the line. The Syndicate immediately began preliminary operations. Four English engineers were sent out, and exactly two months after the agreement was announced

i-Sharif. It is doubtful whether in a race, sive railway construction in Southern Persia. Russia, starting from Termes, or Britain, starting from the Khyber, could reach Kabul first. Teleran to Khanikin, the Khoramabad line Termes, where, it is stated, Russia proposes to will probably be linked with this line, at Hamathre we bridge across the Oxus, is the highest dan or elsewhere, and Persia will thus have sive railway construction in Southern Fersia.

As Russia will eventually build a line from Teheran to Khanikin, the Khoramabad line will probably be linked with this line, at Hamadan or elsewhere, and Persia will thus have two routes from the Gulf to the north. The latest reports state that the survey work on the Mohammerah-Khoramabad line is "hung up" owing to the disturbed state of the Luristan tribes around Diziul. The Persian Government agreed to a slight modification of the terms of the concession to meet the situation thus created and Sir E. Grey has stated in the House of Commons that "every effort will House of Commons that every as soon as the situation in Luristan appears to the responsible authorities to justify such a step... It is contemplated that the Swedish gendarments which has done very good work recently in other parts will devote their attention to Luristan with the object of pacifying that part of the country as they have done in some other parts" This statement was made some months ago. As a result of repeated Anglo-Russian ago: As a result of repeated applications the Swedish Government permitted General Hjalmarsson, the head of the Persian gendarmery, to return to Persia last November.

Period of Transit.

It is commonly said that the Trans-Persian railway would bring India within eight days of London. The possibility was demonstrated of London. The possibility was demonstrated by the performance of a party who travelled from London to Persia a year ago and sent the following details of their journey to the Times. The party left London by the 8-35 p.m. train on a Saturday and arrived at Baku at 10-20 p.m. (London time, say, 7-20 p.m.) on the following Thursday, and at Enzeli, on the south-west shore of the Casplan, (reached by steamer from Baku), at 6 a.m. on the following Saturday,—that is, within six and a half days from London. They travelled wiz Folkestone, Flushing, Berlin, Warsaw, Snamenka, Rostoff and Beslan, and were detained at Warsaw some ten hours and at other points a full two months after the agreement was announced they proceeded to Dizful, on the route of the they proceeded to Dizful, on the route of the they proceeded to Dizful, on the route of the they proceeded to Dizful, on the route of the they result in the route of the route

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The Army in India.

The great sepoy army of India originated in readily took service under the East India the small establishments of guards, known as Company. By degrees Royal Regiments were peons, enrolled for the protection of the factories of the East India Company; but sepoys which arrived in 1754. peons, enrolled for the protection of the fac-tories of the East India Company; but sepoys were first enlisted and disciplined by the French, who appeared in India in 1665. Before this, detachments of soldiers were sent from Engdetachments of soldiers were sent from England to Bombay, and as early as 1625 the first fortified position was occupied by the East India Company at Armagon, near Masulipatam. Madras was acquired in 1640, but in 1654 the garrison of Fort St. George consisted of only ten men. In 1661 Bombay was occupied by 400 soldiers, four years before the French appeared in India. In 1668 the garrison of Bombay consisted of 285 men, of whom only 93 were English, the remainder being French, Porturuses and natives. Portuguese and natives.

While the origin of the regular sepoy army is usually dated from 1748, when Stringer Lawrence, "the father of the Indian Army," enrolled an Indian force in Madras, it is interesting to note that there was a considerable military establishment in Bombay prior to military establishment in Bombay prior to that date. In 1741 this establishment, which was considered as one regiment, consisted of a captain, nine lieutenants, fifteen ensigns a surgeon, two sergeant-majors, 82 sergeants, 82 corporals, 26 drummers, and 319 European privates, together with 31 "masters" (probably Eurasians) and 900 topasses—presumably Goanese. These were distributed in seven companies their total monthly nay heing ably Goanese. These were distributed in seven companies, their total monthly pay being 10,314 rupees. There was in addition a kind of native militia, composed of 700 sepoys including native officers. These were maintained at a monthly cost of 312 rupees. They were not equipped or dressed in a uniform manner, but supplied their own weapons—swords and shields, bows and arrows, pikes, lances or matchlocks. After the declaration of war with France in 1744, the forces at Bombay were considerably increased, and an artillery company was raised. Already in 1740 the French at Pondicherry had raised a large force of Musalman soldiers, armed and equipped French at Pondicherry had raised a large force of Musalman soldiers, armed and equipped in the European fashion; and the fall of Madras, which the French captured in 1746, induced the English East India Company to begin the formation of a military establishment of like nature. In January 1748 Major Stringer Lawrence landed at Fort St. David to command the forces of the Company. The Except the total of the Lordie Was then averaging English foothold in India was then precarious. The French under Dupleix were contemplating further attacks; and it became necessary for the English Company to form a larger military establishment. The new commandant at once set about the organisation and discipline of his small force. The garrison was organised nis small force. The garrison was organised in seven companies; and the peons, or factory guards, were also formed into companies. This was the beginning of the regular Indian Army, of which Lawrence eventually became commander-in-Chief. In Madras the European companies developed into the 1st Madras. Fusiliers; similar companies in Bombay and Bengal became the 1st Bombay and 1st Bengal Fusiliers. The native infantry was similarly developed and organised by Lawrence and Clive, who was his contemporary, and military adventurers—both Musalman and Hindu—

From this time for a century or more the Army of India was engaged in constant war. After a prolonged struggle with the French, whom Dupleix had by 1750 raised to the position of the leading power in India; the efforts of Stringer Lawrence, Clive and Eyre Coote completed the downfall of their rivals, and the power of England was established by the battle of Plassey in Bengal and on the field of Wandewash in Southern India. In 1761 the final overthrow of the French was completed, and the territories of that enterprising people were reduced to a few settlements on the coast, the principal of which, Pondicherry, was captured in 1793. But while the Army of India had accomplished this much, they had now to contend with the Struggle with the French. this much, they had now to contend with the great native powers, both Hindu and Mahomedan. A number of independent states had dan. A number of meependent states had arisen on the decline of the Mughal Empire, some ruled by the satraps of the Emperor of Delhi and others by the Mahratta princes who had succeeded to and extended the conquests of Sivaji; while in Mysore Hyder Ali, a Mussalman adventurer, had established himself in the place of the Hindu Raja. A great and prolonged struggle took place with the ruler of Mysore, in which the forces of the Crown and the Company's Army bore a distinguished part. This struggle extended over nearly twenty years, and terminated only with the death of Hyder's son and successor Tipu when his capital of Seringapatam was taken by assault in 1799.

Presidency Armies.

The extension of British territory had necessitated a corresponding augmentation in the strength of the armies of Bengal, Madras and Bombay, which were entirely separate organisations, as rendered requisite by the great distances and independent territories by which they were separated. But Bengal and Bombay troops had taken part in the wars in Southern India, although the brunt of the in Southern india, authough the brunt of the fighting had fallen on the Madras Army. These armies had grown both in strength and efficiency. In 1787 the Governor-General, Lord Cornwallis, wrote to the Duke of York—"A brigade of our sepoys would make anybody emperor of Hindustan. The appearance of the native troops gave me the greatest satisfaction; some of the battalions were perfectly well-trained, and there was as spirit of emulation among the officers, and an attention in the men, which leaves me but little room to doubt that they will soon be brought to a great pitch of discipline.

Reorganisation of 1796.

In 1796, when the native armies were re-organised, the European troops were about 13,000 strong; the native troops numbered some 57,000, the infantry being generally formed into regiments of two batallions each. In Bengal native infantry regiments were formed by linking existing battalions. The establishment of each two-battalion regiment was 1 colonel commandant, 2 lieutenant-colonels, 2 majors, 8 captains.

22 lieutenants, 10 ensigns, 2 European non-the Government which he had inaugurated commissioned officers, 40 drumers passed from the feebble hads of his successinative non-commissioned officers, 40 drumers sors, the Rajas of Satara, into those of native non-commissioned officers, 40 drummers and fifers, 1,600 sepoys. Each battalion had two grenadier and eight battalion companies. two grenadier and eight battalion companies. Promotion and furlough rules for the officers were promulgated and interior economy was improved. At the same time the Madras and Bombay armies were reorganised. The Madras cavalry was formed into four regiments, having twelve British officers each, the artillery into two battalions of five companies each and fifteen companies of lasears. The native infantry was organised in eleven two-battalion regiments, rather stronger than those of the Bengal establishment. There were also two battalions of European infantry. The Bombay Army was organised on similar lines, with an establishment of six two-battalion regiments establishment of six two-battalion regiments and a Marine Battalion; six companies of European artillery were formed in 1798.

Policy of Wellesley.

Besides the wars that have been referred to, the East India Company had been engaged in minor operations, particularly against the growing power of the Mahrattas, which menaced the stability of the British in India In 1238 the Marane Walester in India. In 1798 the Marquis Wellesley arrived as Governor-General firmly imbued with the necessity of reducing the power and influence of the French, which had again arisen through the military adventurers who had established themselves in the service of various native powers. There was a French party at Seringapatam, and the ruler of Mysore was in correspondence with Napoleon Bonawas in correspondence with Napoieon Bona-parte in Egypt. At Hyderabad the French adventurer Raymond dominated the State army, having under his command a disciplined force of 14,000 men who carried the colours orte of 12,000 men who carried the colours of the French Republic and wore the Cap of Liberty engraved upon their buttons. In the Mahratta States, and especially in Sindia's service, adventurers of the same enterprising nation had disciplined large forces of infantry and artillery; and the billed Market 1978. nation had disciplined large forces of mantry and artillery; and the blind Mughal Em-peror at Delhi was held in the power of Perron, Sindia's French General. One of the first acts of the new Governor-General was to disarm the French party at Hyderabad, a measure carried out by Captain (afterwards Sir John) Malcolm. The French officers in the Nizam's service were deported to their own country, and a treaty of alliance was concluded under the terms of which a Contingent of Hyderabad Troops was supplied for service in the campaign Troops was supposed for service in one campaign of Seringapatam. Troops of all three presi-dencies took part in the campaign which termi-nated with the capture of Seringapatam and nated with the capture or seringapatam and the death of Tipu on the 4th May 1799. It was in this campaign that Colonel Arthur Wellesley, afterwards Duke of Wellington, came into prominent notice. It was now necessary to direct attention to affairs in the Mahratta States, which were encroaching on the territories of our ally the Nizam, and had adance our ascendancy throughout India. An a dangerous ascendancy throughout India. An opportunity occurred in supporting the Peshwa,

the astute Brahmin Ministers, the Peshwas, who had their seat at Poona. Other Mahratta princes, descended from officers of State-Sindia, Holkar, the Gaikwar and the Raja of Berar—held sway over a great part of India, and were attempting to extend their dominions and consolidate their influence from the Ganges to the Godavery. The Mahrattas, famous as irregular predatory hordes in times gone by, had never been remarkable for courage, the place of which was supplied by their natural astuteness and capacity for organisa-tion. The genius of the nation lay more in the direction of diplomacy and intrigue, and a false glamour appears to surround their name as warriors, to which history has lent an undeserved prestige. Their success must in part be prescribed to their intellectual acumen and subtlety, and in part to the effete condition of those with whom they had to con-tend. The edifice of their nationality was built on the ashes of the declining Mughal Empire. But even since the days when their military renown had rested on some solid foundation they had rapidly declined, and the phantom of their fame was dissipated the moment they came into collision with European armies. Their artillery and infantry, com-posed of Jats, Rajputs, Arabs and other mer-cenaries, fought with desperate valour, but the far-famed Mahratta horse disappeared from the field at the beginning of every action. General Lake in the north of India defeated General Lake in the north of India dereauch the forces of Sindia in a succession of battles at Aligarh, at Agra, at Delhi and Laswari; while in the south General Arthur Wellesley captured Ahmednagar and Gawilgarh, and gained complete victories over the combined forces of Sindia and the Raja of Berar at Assume that Archur In these companies a saye and Argaum. In these campaigns a considerable British force and a large portion of the Bengal and Madras armies were employed; they acquitted themselves with their customary valour, and gained some of the most notable victories recorded in English history. During the progress of these wars the Army of India was considerably augmented, and we find that on reduction to peace estab-lishment in 1805 there were some 25,000 British and 130,000 native troops in India.

Mutiny at Vellore.

Mutiny at Vellore.

The Indian Army has been from time to time subject to incidents of mutiny which were precursors of the great cataclysm of 1867. In the fort of Vellore n 1806 were confined the sons of Tipu Sultan, these descendants of the most fanatical enemy of the English in India being permitted to maintain a large body of adherents and an almost regal state. Naturally they intrigued. The native soldiers of the Company had grievances. The military authorities had issued a new pattern of turban, which owing to its resemblance to the head-dress worn by half-caste drummers, gave rise to a rumour that opportunity occurred in supporting the Peshwa, who had been expelled from Poona by Holkar.

The Mahrattas.

The Mahrattas.

The Mahrattas, originally mere predatory had become an organised nation dunder the rule of Sivaji. After his death

mutiny. There were many signs and por- pared to take up arms once more. tents typical also of the greater rebellion. The officers had become estranged from their men omeers had become estranged from their men and lived too much apart from them. The native troops suddenly broke out and killed the majority of the European officers and soldiers, their wives and children, quartered in the fort, while the striped flag of the Sultan of Mysore was raised on the ramparts. But of the parallel so far is close, the method of dealing with the outbreak of 180% differed widely from the weakness displayed at Meerut in 1857. There was happily at the neighbour-ing station of Arcot a soldier of energy, de-cision, and courage both moral and physical. Colonel Gillespie with the 19th Light Dragoons Colonel Gillespie with the 19th Light Dragoons and galloper guns came down upon the mutineers like a hurricane, blew in the gates of the fort, destroyed most of the sepoys, and in the course of a few hours suppressed the rebellion. This retribution struck terror into the hearts of other would-be mutineers and disaffection, which was rife throughout the Madras Army, did not elsewhere find active expression.

Overseas Expedition.

Almost as dangerous was the mutinous discontent excited among the British officers by the ill-advised measures of Sir George Barlow, unfortunately acting temporarily as Governor-General in 1809, which was with difficulty quelled by the tact of wiser and more considerate men. It was not only within the confines of India that the Army distinguished itself during the period under review. Expeditions were made beyond seas. Bourbon was taken from the French; Ceylon, Malacca, and the Spice Islands were wrested from the Dutch; and Java was conquered in 1811 by a force largely composed of Beugal troops which had volunteered for this service. In 1814 took place the Nepal War, in which the brave Gillespie who had so distinguished himself at Vellore and in Java, was killed when leading the assault on a fort so distinguished himself at Vellore and in Java, was killed when leading the assault on a fort near Dehra Dun. This war is chiefly of interest from its having introduced us to the Gurkhas, inhabitants of Nepal, who form so large and efficient a portion of our Indian Army.

Second Mahratta War.

In 1817 hostilities again broke out with the Mahrattas. The primary cause of the war were the Pindaris, a military system of bandits of all native races and creeds who, formed mostly from the military adventurers who had been employed by native poten-tates, had established themselves in strongholds on the banks of the Narbada river, from whence they issued to plunder the country from the end to end. These people had become so formidable that a large army had to be assembled for their destruction, for they viewed with dismay and opposed with force the establishment of effective power in the land where they had so long carried on the land where they had so long carried on with impunity their lawless modes of life. To cope with this growing evil, armies were to close in from every direction on the fastnesses of the Pindaris. At the same time a watch had to be kept on the Mahratta States, whose rulers, encouraged by the feeble policy that had followed when the strong hand of the lawler of the retreat from Kabul. It is true that they had seen Marquis Wellealey was removed, were pre- the triumph of its return which was celebrated

cally the whole of the Army took the field, and all India was turned into a vast camp. The experiences of 1817 differed in no wise from those of 1803, except that resistance was less stubborn as the brigades of the European military adventurers no longer existed in the Mahratta armies. The Chiefs of Poons, Nag-pore, Indore and Gwalior rose in succession. At the battle of Kirkee, where the tramp of the myriad Mahratta horse shook the very earth, they were beaten off by one-tenth of their numbers after a feeble attempt to charge a native regiment. At Koregaum where the de-tachment under Captain Staunton offered so galant a resistance to the attacks of a vastly superior force, the Arabs alone fought on the side of the Mahrattas, 20,000 of whom stood idle on the plain. At Sitabaldi a few reginents of Madras native infantry beat off the attacks of the army of the Raja of Nagpore, and victory was assured by the charge of a troop of Bengal cavalry. At the battle of Mahidpur the hosts of Holkar melted like snow from the face of the desert before the determined onslaught of a small army of British and native troops. This was the last war in Southern India. The tide of war rolled to the north, never to return. In the Punjab, to the borders of which our frontier was now extended, the Army was to meet in the great military community of the Sikhs, a brayer and more virile foe.

Reorganisation in 1824.

In 1824 there was another outbreak of mutiny, this time at Barrackpore in a regiment that was unwisely dealt with when about to proceed to the Burmese War. In that year the armies were reorganised, the doublevear the armies were reorganised, the double-battalion regiments being separated, and the battalions numbered according to the dates when they were raised. The Bengal Army was organised in three brigades of horse artillery, five battalions of foot artillery, two regiments of European and 6s of native infantry, 5 regiments of irregular and 8 of regular cavalry. The Madras and Bombay armies were constituted on similar lines, though of lesser strength. There were also various local forces, such as the Hyderabad Contingent, paid for by the Nizam, consisting of horse, foot and artillery. The irregular cavalry were all silladars, that is the troopers furnished their own horse and equipment, as do the greater part of the native cavalry of to-day. The irregular and local corps had each only two or three European Officers.

First Afghan War. In 1839 the occupation of Afghanistan was undertaken, Kabul was occupied, and a large Army stationed in this country beyond the Indus. There followed the disasters of Kabul, the murder of British envoys, and the retreat in which a whole army perished. This disaster was in some measure retrieved by subsequent operations, but it had far-reaching effects on the morale of the Army and on British prestige.

with barbarle pageantry at Peshawar; but the British army had lost the prestige of invincibility which it had gained during a hundred years of victory throughout peninsular India. It is convenient here to give some account of the Sikhs in whom our army met a more formidable enemy than they had hitherto encountered, who have since supplied many of the best soldiers in its ranks, and who less than nine years later served with valour and fidelity beneath our colours in the great struggle of the sepoy war. In the early part of the sixteenth century Baba Nanak, a peasant of a village near Lahore, founded the religious sect which was to play such an important part in the history of India. The religion he preached was pure monotheism and in no way militant in its original form. The new faith, founded on the Unity of God and the religious equality of man, gradually made great headway, the philanthropy and tolerance of its tenets appealing to the hearts of men. The Gurus who succeeded Nanak were active in their teaching; they founded and built the Golden Temple at Amritsar; and the seet began to assume a political significance. This brought them into conflict with the Mughal Government, and Sikhism was subjected to that persecution which was alone necessary to transform it into a militant political force. Har Govind, the Sixth Guru, became a militant power.

After two hundred years the Sikh faith

After two hundred years the Sikh faith became established as a guiding principle to work its way in the world. Nanak disengaged his little society of worshippers from Hindu idolatory and Mahomedan faith; Amar Das preserved the community from declining into a sect of asceties; Arjan gave his increasing followers a written rule of conduct and a civil organisation; Har Govind added the use of arms and a military system; Govind Singh bestowed upon them a distinct political existence, and inspired them with the desire of being socially free and naturally independent. Sikhism arose where fallen and corrupt Brahminical doctrines were most strongly acted on by the vital and spreading Mahomedan belief. As in the case of other sects whose vicissitudes are recorded in the history of the world, religious persecution gave to Sikhism that vivitying influence which was the necessary stimulus to permanence and progress. With varying fortunes the power of the Sikhs was consolidated, and by 1785 they were predominant from the frontiers of Oudh to the Indus. Their prestige is illustrated in the story of the traveller Foster, who describes the alarm caused to a petty Chief and his people by the appearance of two Sikh horsemen under the walls of their fort. The great Chief Ranjit Singh, the "lon of the Punjab," established his ascendancy throughout that province, and with the aid of European military adventurers such as Ventura and Allard organised a powerful regular army. Ranjit Singh had the wisdom to keep on friendly terms with the English, but his death was the signal for Internal dissensions which in course of time rendered the Army the principal power in the state, and brought them into conflict with their English neighbours.

Sikh Wars.

A large portion of the Bengal Army under Sir Hugh Gough took part in the first Sikh War in 1845-6, in the opening battle of which, at Mudki and Ferozeshahr, the native troops did not greatly distinguish themselves; although they retrieved their reputation in subsequent actions when the Sikhs were de-feated at Aliwal and Sobraon. But the Ben-gal Army had for some time been undergoing that deterioration of discipline which culminated a dozen years later in the mutiny. were no longer the soldiers of Lake and Has-tings; the heroes of Laswari, of Seringapatam, and of expeditions overseas. In the snows and deserts of Afghanistan and amid the bloody scenes of the Khurd Kabul Pass and Jagdalak they had lost much of their ardour and prestige, while they had witnessed the defeat and slaughter of their hitherto invincible English comrades. They fought well on occasion; stimulated by the presence and example of stimulated by the presence and examine and finglish regiments; but their training and discipline left much to be desired. The second Sikh War followed a few years later, when, after the indecisive battle of Chillianwala, after the indecisive battle of Chillanusia, the Sikhs were finally vanquished at Gujarat. The other campaigns belonging to this period were the conquest of Sind by Sir Charles Napier and the Second Burmese War. On the eve of the Mutiny there were in the Bengal Army 21,000 British and 187,000 native troops; in the Medgal Army 8,000 British and 49,000 the Madras Army 8,000 British and 49,000 British and 45,000 native troops; and in Bombay 9,000 British and 45,000 native troops. The conquest of the Punjab extended our frontier to the country inhabited by those turbulent tribes which have given so much trouble by their raids and forays, while they have supplied many soldiers to our army. To keep order on this northwestern limit of the Empire the Punjab Fron-tier Force was established, and was constantly engaged in small expeditions which, while they generally involved but little bloodshed, kept the Force fully employed for many years and involved much ardous work in the pursuit of an elusive enemy.

The Indian Mutiny.

The history of the Indian Army in general and of the Bengal Army in particular is so closely bound up with the great Mutiny of 1857 that it is necessary to enter into some account of the causes which brought about that catastrophe, and to sketch in outline its chief events. In 1856 Lord Dalhousie resigned the Viceroyalty of India after a term of office marked by strenuous activity and by an extensive policy of anexaction. From Oudh a dissolute and incompetent king was removed and his territories were annexed to the British dominions, an activity and by an extensive policy of anexaction. From Oudh a dissolute and incompetent king was removed and his territories were annexed to the British dominions, an activity and to the British dominions, an activity and the Name of the greatest veneration. The territory of Jhanis was also annexed, the Government refusing to allow the Rani to adopt an heir to succeed her deceased husband; and the Name of Bithur, adopted son of the last Peshwa Bajl Rao, was refused a continuance of his adoptive father's pension. These two latter, the Rani of Jhansi and Nama Sahib, became the bitterest and most cruel of our enemies. The

annexation of Oudh was a severe shock to the annexation of Oudh was a severe shock to the susceptibilities of the feudal nobles of that province, from which, it must be remembered a large portion of the Bengal Army was recruited. There were thus political causes of disaffection in India apart from the constant presence of racial difference, fostered by political agitators and a seditious press. There were Princes and States ripe for rebellion; while on the throne of the Mughais at Delhi there sat the shadow of a monarch whom tradition and the greatness of a name caused to dition and the greatness of a name caused to be venerated by Mussalmans throughout India. And in the Bengal Army political agitators found a fertile soil for planting the seed of corruption.

The infantry of that army had in its ranks a great majority of Oudh sepoys; while men of the same race formed the bulk of forces such as the Gwalior Contingent, maintained by Native States under the terms of treaties with the British Government. A small percentage of Mahomedans of Hindustan was also to be found in the Bengal Native Infantry, while they supplied the greater part of the Cavalry of that Presidency. It will thus be understood that in both armies there was a dangerous preponderance of one class, facilitating and extending combination on the part of the disaffected. It was different with the armies of the other Presidencies, which were entirely separate from the Bengal Army, and under their own Commanders-in-Chief, and where men of every caste and creed were mingled in the ranks, a system which obviated the likelihood of combination among men ever prone to be suspicious of one another. There were in the Madras Army family ties to keep the men true to their salt. In that Presidency the men true to their salt. In that Presidency the sepoy had in almost every instance a large number of relatives living with him. He was not likely to abandon these relations to their fate, and mutiny against the Government he served. The Presidential system, in fact, offered an effective safe-guard in the "water-tight compartments" that prevented those armies from intermingling. There was not only no sympathy but some antagonism between the different armies; and on one occasion when regiments of the northern and southsion when regiments of the northern and southern Presidencies were serving together, an order had to be issued that the Madras sepoys order had to be issued that the Madras sepoys were not to irritate their brethren by calling them "Bengalis" which was regarded as an opprobrious term, applicable properly to a despised and unwarlike race which has never furnished any soldiers. While the susceptibilities of the Oudh sepoy had been hurt by the annexation of his country, the Muhamma-dans still held in veneration the puppet who occupied the throne of the great Mughals and cherished the recollection of former glory and power. They had in addition the influence of a fanatical religion to incite them to a holy war against the Christians. Their combinawar against the Christians. Their combina-tion with the Hindus is, however, somewhat remarkable, and the causes which brought these antagonistic peoples into alliance must be sought for elsewhere than in political in-fluences. That there were leaders such as the Nana, the Rani of Jhansi and the Maulvi of Fyzabad who made use of the native army for purposes of rebellion has already been indi-cated. But the army would not matter merely

at the instigation of a few political intriguers and agitators. The seeds of disaffection had and agitators. The seeds of disaffection had long been growing in the Bengal Army. The disasters of the Afghan War had taught the sepoy that his Euronean comrade was not invincible. The proportion of Native to British soldiers in India was far too great. The Indian Empire in those days rested too largely on mercenary forces. There were in the country only some 38,000 British soldiers, while the native troops numbered 200,000 men, evaluate of the numerous levies of independents. exclusive of the numerous levies of independent or semi-independent princes. A great establishment of native artillery had grown up. While the Bengal sepoy had deteriorated in morale, he had cause for discontent. He had been alternatively pampered and abused. The grant of extra allowances on all occasions for field service had in the first place excited his cupidity; their with-drawal had aroused his discontent. He feared that attempts were being made to destroy his caste and subvert his religion, the points on which he was most sensitive. There was on which he was most sensitive. There was too much centralisation of power in the hands of the military authorities at Army Head-quarters. The proselytising spirit was abroad, and some amiable but fanatical officers preachand some amiable but fanatical officers preachied their religion about the country. The crucial question of the greased cartridges brought matters to a head. With a great deal of reason the sepoys complained of the new cartridge, the paper of which was greased with animal fat, said to be that of swine and oxen, the former abhorrent to Musalmans, the latter sacrliegious to Hindus. The mysterious unleavened cakes were circulated, and while their significance was realised by some, it was ignored by those in authority.

Course of the Rising.

The introduction of the new cartridge for the Enfield Rifle in January 1867 caused widethe Enheld time in January 1857 caused wider spread alarm among the native ranks of the army. At Berhampore the 19th Bengal In-fantry mutinied, and was marched to Bar-rackpore, and there disbanded on the 31st March. On the 29th March, sepoy Mangal Pande, of the 34th Bengal Infantry at Barrackpore, attacked and wounded the Adjutant and European sergeant-major of his regiment. At Meerut on the 24th April eighty-five men of the 3rd Bengal Cavalry refused to take the new cartridge. They were tried and sentenced to ten years' imprisonment, their sentence being announced and fetters rivetted on at parade on the 9th May. This degrading aggravation of punishment was the spark that aggravation or punishment was the spark that fired the mutiny. Next evening the troops in Meerut rose, and, aided by the bazaar rabble, killed every European they met, released their comrades from the gaol, and went off to Delhi. It is unfortunate that there was at Meerut no province of the control of the at is unfortunate that there was at Meerut no senior officer capable of dealing with the crisis. There were in garrison two batteries of field artillery, as well as one of the finest cavalry regiments in the British Army, the Carabineers, and a battalion of Rifles. But fatal inaction paralysed the Europeans, and the mutinous soldiery marched unmolested to Delhi. Here the troops soon followed suit, murdered some of their officers, while others examed, and a number of Europeans of all escaped, and a number of Europeans of all cated. But the army would not mutiny merely ages and both sexes, was massacred in the

and began the long seige which terminated with the capture of the city in the middle of September, when the heroic Nicholson fell in the hour of victory. Meanwhile the mutiny had spread to other corps of the Bengal Army. The native troops at Cawppore rose on the 4th June, massacred the Europeans of the Garrison who surrendered on the 27th, while Garrison who surrendered on the 27th, while the women and children were butchered on the 15th July, the day before Havelock's relieving column defeated the Nana and entered Cawnpore. There was mutiny at many other places during this period not only at stations north of the Jumna, but in Central India, and in Rajputana, where the disaffected troops of the Gwalior Contingent were stationed at Gwalior, Neemuch, Nasirabad and other cantonments. At Jhansi a general massacretook place, when the Europeans unwisely surrendered to their pitless foe. Throughout Bundelkhand and the Central Provinces the wilder spirits of the country rose and banded Bundelkhand and the Central Provinces the wilder spirits of the country rose and banded with the mutineers. With few exceptions the Bombay Army remained loyal, as did the Madras Army and the Hyderabad Contingent, although there were some isolated out-breaks at Hyderabad and at Shorapur. But generally speaking the rebellion did not spread south of the Tapti River. On the 30th September the troops at Lucknow rose and there began the troops at Lucknow rose, and there began the long and glorious defence of the Residency by the beleaguered garrison under Sir Henry Lawrence; Lucknow was relieved by Havelock and Outram on the 27th September, but the rebel hold on the defenders was not relinquished until Sir Colin Campbell advanced and drove off the mutineers with terrible slaughter two months later. Having relieved Lucknow, Sir Colin Campbell marched to Cawnpore, where General Windham had been driven into the intrenchments, and was with difficulty holding his own against the Gwalior Contingent under Tantia Topi. On the 6th December 1857, Cawnpore was relieved, and the rebels retired on Kalpi. It was not until 1858 that the small army under Sir Hugh Rose, the most skifful and enterprising leader of those times, marched through Central India, relieving many beleagued places, fighting many pitched the long and glorious defence of the Residency beleagured places, fighting many pitched battles, and avenging the massacre of Jhansi in the storm and capture of that place, at the capture of Kalpi, and at Gwalior where the Rani of Jhansi was killed at the head of her troops, and Sindia was restored to the capital from which he had been expelled.

Reorganisation after the Mutiny.

When the country had been pacified, the Government of India was assumed by Queen Victoria, and the East India Company ceased to victoria, and the East India Company ceasen to exist. The Company's European regiments were transferred to the crown, and a regular system of relief of British regiments employed in India was instituted, the charges being paid out of the Indian revenues. The Bengal Army had

place and in the streets. An army was at and Bombay armies were also reorganised, once organised for the recovery of Delhi, while Native artillery was abolished, with the exforces were collected in the Punjab, which remained loyal under the strong hand of John Lawrence. The British columns having defeated the rebels who opposed them at Badli-kield batteries of the Hyderabad Contingent, The officering of the reorganised armies was feated the rebels who opposed them at Badli-kield batteries, on which the officers were and began the long seige which terminated all borne on a general like and supplied to weight and Bombay armies were also reorganised, Native artillery was abolished, with the exception of some mountain batteries and the field batteries of the Hyderabad Contingent. The officering of the reorganised armies was carried out by the organisation of a Staff Corps for each Presidency, on which the officers were all borne on a general list and supplied to regiments and to the staff. On completion of the reorganisation in 1863, the armies had the following attements. following strength:—

Bengal Army—19 Cavalry and 49 Infantry regiments.

Madras Army-4 Cavalry and 40 Infantry regiments. Bombay Army-7 Cavalry and 30 Infantry

regiments. Punjab Frontier Force-6 Cavalry and 12

Infantry regiments.

Hyderabad Contingent—4 Cavalry and 6

Infantry regiments.

Other Local Corps—2 Cavalry and 5 Infantry regiments.

The total strength amounted to 140,000 men; and there were in India 65,000 British soldiers. The regiments were officered by a reduced cadre eventually fixed at eight British reduced cadre eventually fixed at eight British officers to each corps, except that the Hyderabad Contingent and other local corps had an establishment of four only. The promotion of officers was made dependent on length of service, 12 years to Captain, eventually reduced to nine years, 20 years to Major, reduced to 18 years, and 26 years to lieutenant-colonel. The Staff Corps system, which still continues in fact though not in name, has the disadvantage that it entails the frequent transfer of officers from one corps to another. of officers from one corps to another.

Minor Campaigns.

During period 1879, when succeeding the the muting until 1879, when the second Afghan War began, there were many minor campaigns, including the Ambeyla expedition, the China War of 1860, and the Abyssinian War, when Napier of Magdals, who had fought in the Sikh Wars and in the Mutiny, commanded the expeditionary army. There followed the Afghan War, in which the leading figure was Lord Roberts. There were expeditions to Egypt and China, and various frontier campaigns, the most important of which was that on the North-West Frontier in 1897, since when that turbulent country has been generally quiet. There were also the prolonged operations following on the annexation of Burms, several campaigns in East Africa and Somaliland, and the expedition to Lhasa. But since the Afghan War the Army of India, except that portion of the British garrison which was sent to South Africa, has had little severe fighting, although engaged mutiny, unti Afghan War until second the has had little severe fighting, although engaged in many ardous enterprises.

Reforms.

The twenty years which began in 1885 witnessed many reforms and augmentations of the Indian Army, due to preparations to resist the menace of the Russian advance towards India. The composition of the Army was improved by the elimination of unwarike men from the ranks. In pursuance of this reform many Medicar requests of the Indian revenues. The Bengal Army had ance of this reform many Madras regiments almost disappeared; and while a new army were reduced and replaced by corps composed was raised in that Presidency, the Madras of more virile races. "Class" troops and

companies were formed instead of men of every caste and creed being mingled in the ranks and in some cases class regiments were raised. But it is generally held that, it is better to form regiments of class companies and troops, although the class regiment has its advocates among those who hold that such an organisation facilitates segregation in case of trouble. In 1887 we find the British Army in India. numbering about 74,000 and the Indian Army 153,000 men. In 1888 Indian battalions were grouped in threes, each with a regimental centre, and reserves for the native army were instituted; these have been gradually augmented until the establishment numbers 25,000. In the following year Imperial Service troops, to be placed at the disposal of the British Goverument in case of emergency, were raised in Native States. These number 21,000 men officered by Indians and having Inspecting Officers furnished by British Officers of the Indian Army. In 1891 the Staff Corps of the three Presidencies were amalgamated, the first step in the abolition of the Presidency distinctions, furthered two years later by the abolition of the appointments of Commander-in-Chief of the Madras and Bombay Armies. While the fighting strength of the Army had been augmented and improved during all these years, the administrative services had not been neglected. The Supply and Transport services were improved and the Ordnance port services were improved and the Ordnance and Military Works were reorganised, and measures were taken for the improvement of defences, mobilisation and equipment Changes were made in regimental organisa-tion, and the pay and allowances of the troops were raised from time to time.

The number of British officers has been augmented at intervals. The establishment in the native infantry formerly consisted of a Commandant, two Wing Commanders, and five Wing Officers. In 1900 the Double Company system was instituted, each pair of company system was instituted, each pair of company system was instituted, each pair of company panies being placed under a Double Company Commander, the Wing Commanders being abolished. The establishment of regiments now includes 13 or 14 British officers, squa-droms and companies being commanded by native officers, of whom there are 16 in a regiment, Risaldars and Subadars commanding troops and companies, while Jemadars are their subalterns.

Lord Kitchener's Work.

The most momentous changes that have taken place in the Indian Army since the postmutiny reorganisation were carried out under the regime of Lord Kitchener, who assumed the office of Commander-in-Chief at the end of 1902. When Lord Kitchener arrived in India, the Commander-in-Chief had only executive command of the Army, with an Adjutant-General and a Quartermaster-General as his Chief Staff Officers. There was no General Staff, the Staff of the Army in India being divided bet-Staff of the Army in India being divided between the cepartments of the Adjutant-General and Quartermaster-General. The administrative departments of the Army were under the Military Member of the Governor-General's Council, of which the Commander-in-Chief was an extraordinary member. The condition of affairs was not satisfactory. The proposals of the Commander-in-Chief regarding the situation as it had done for the best of the State of the St

measures involving expenditure had to be submitted to the Financial Department through the Military Department, which had entire control also of the Supply and Transport, Ordnance, Military Accounts, Remount and Military Works Departments. The consequence was frequent differences of opinion between the Military Department and Army Readquarters.

Lord Kitchener organised a General Staffand established a Staff College at Quetta for the training of officers in the requisite duties; a Chief of the Staff was appointed, and the proper division of the work of Staff Officers was made, those of the General Staff being made responsible for the branch dealing with the Art of War, including the training of troops, while routine and administrative duties were undertaken by officers of the Adjutant-General's and Quartermaster-General's Departments.

On arrival in India Lord Kitchener found On arrival in India Lora Riceneer round that the military system, originally constituted on sound lines, had gradually departed from the intention of its founders, and much of the power properly belonging to the Commander-in-Chief had been usurped by the Military Department, while a succession of economical Finance Ministers had so cut down economical rimance ministers had so cut down the military estimates and held the purse-strings so tightly that it was impossible to force through any costly measure for the de-fence of the country. The military chaos which was the slow growth of a hundred and which was the slow growth of a hundred and fifty years of constantly changing conditions required remoulding into an orderly cosmos. The army was in many respects, with its want of proper organisation for external war, its ponderous and antiquated administrative system, its faulty distribution in units scattered on no known strategical plan, more suited to the circumstances of a bygone age, when the country had only recently been conquered and troops had to be retained at remote and isolated stations to overawe the inhabitants. While the Commander-in-Chief was a strong and determined man with a genius for organisation, the Viceroy was also a great personality; holding strong convictions, and naturally a champion of the civil power. Lord Kitchener wished to remove the obstruction of the Miliwashed to remove the obstruction of the mix-tary Department. Lord Curzon could brook no weakening of the power of the Civil Gov-ernment. The question was not merely one of the abolition of a Department which had grown obsolete in its methods. It was a ques-tion of the status of the Chief Military Authority in the country.

Military Department abolished.

On the recommendation of a Committee composed of Lord Roberts, Sir George White and Sir Edward Law, the Military Department was abolished, and the Military Supply Department established in its place in 1906. Department established in its place in 1900.

Lords Curzon and Kitchener again came into conflict regarding the personnel of the Department, and the former resigned. The Commander-in-Chief now set about the task of reform. He had since his arrival in India been studying the situation, reviewing the state of the confliction of the conf

part of a hundred years. Under the old chaotic system the mobilisation scheme provided for the despatch of two armies, one through the Knyber, the other by way of Quetta to Kan-dahar. From the North-West alone, whence the conquering hordes of all the invaders whose march is recorded in history had poured from time immemorial, was the Empire of India subject to menace from without.

But under the system then existent the measures arranged for defence provided for a force of only four Divisions of all arms. This force was not only inadequate in numbers but in capacity for expansion. Its distribu-tion and organisation were more suited for policing internal India than to contend with an external foe. The troops were distributed in Districts under generals whose commands were geographical in designation and in area. Here were no complete Army Corps, Divisions, and Brigades ready to take the field. In case of war the troops for the field army were to be drawn from all parts of India, the various units being sorted out into Brigades and Divisions on arrival at the base of operations, and provided with a scratch lot of generals and staff officers for the occasion.

Army Re-distributed.

It was in the reorganisation of the scattered and heterogeneous forces of the Indian Empire that Lord Kitchener's great work lay. Some steps had already been taken towards the abolition of those Presidency distinctions the abolition of those Presidency distinctions which formerly divided the Indian native forces into three armies supplemented by a congeries of local forces. But he found three armies, each confined to its own geographical limits, beyond which its units and its personnel did not ordinarily proceed; or when they did, they carried the chains which linked them to their respective Presidencies. The units of the Indian Army were renumbered, a fruitful cause of confusion being thus eliminated; Presidency and local distinctions were abolished, and a homogeneous army, though composed of heterogeneous races, free to benefit by the experience of service in any part of India, was created. The experience of 1857 proved the measure of safety provided by the presidential system of three armies with nothing presidential system of three armies with nothing in common between them; but the new regime considered that the conditions of fifty years ago were obsolete, and had been entirely changed by increased facilities and rapidity of communication throughout the Empire.

The whole army was formed into nine Divisions, exclusive of the Burma Division, cach with its proper complement of the three arms, under its General with staff complete. These Divisions were organised for war; each one could take the field intact, leaving behind sufficient troops for the maintenance of internal order. Arrangements were made for the organisation of supply and transport. The organisation of supply and transport. The reserve was not sufficiently large to supply the wastage of war; it was expanded, the infantry reserves being augmented, while the eavalry was included in the system. Small and Isolated stations were by degrees abandoned, the Divisions, or at least the Brigades, being assembled with a due regard to strategical requirements and to the necessities of training, though some are extended over a

wide area of country. The pine divisions were distributed between two armies, each with its Commander, their heads resting on the main routes at Quetta and Peshawar.

The Military Supply Department, with its Member on the Governor-General's Council, was abolished in due course; an Army Department was created, to deal with much of the business carried on by its predecessor, with a Secretary in Charge. The Commander-in-Chief is now the only Military Member of Council, and it is a question whether he has not a burther greater than one man can hear not a burthen greater than one man.can bear. The recommendations of Lord Robert's Committee have been ignored, for that Committee recorded the opinion that "the concentration of the whole responsibility of Supply of the Army under one head, if that head is to be the Commander-in-Chief, would be opposed to all modern principles in regard to Armies." It was feared that the system now obtaining would lead to the dispersion of the large a new would lead to the diversion of too large a por-tion of the time of the Commander-in-Chief from his natural military duties; and it cer-tainly appears that the functions and status of that high officer have largely altered.

Indian regiments are numbered consecutively, the infantry from 1 to 130, the cavalry from 1 to 39. They have subsidiary titles based upon their composition, their territorial origin, or the names of distinguished officers

with whom they were connected.

British troops are periodically relieved from England and the Colonies, regiments ordiand the Colonies, regiments ortu-narily being some fifteen years in India, where they are kept on a war-footing by drafts sent from the regimental depots. Native troops consist of every warlike class, a great variety of races being found in the ranks. Gurkhas and Sikhs to a great extent, are organised in class regiments. There are Rajputs of both Oudh and the United Provinces; Jats, Dograsd, Mahrattas, Pathans, Baluchis and Hazaras. Mahrattas are enlisted in Regiments of the old Bombay Army; Mahomedans from the south of India and from Hindustan are found in the ranks of many corps, and most of the Frontier tribes furnish their quotas.

The native officers generally rise from the ranks, but some are given direct commissions, although this system has not been largely adopted. The volunteers form a valuable and efficient body of men, who would be most largely in practically having a good knowledge. useful in emergency, having a good knowledge of the use of arms and furnishing some of the

or the use of arms and furmishing some of the best shots in the country.

The Military Police is largely composed of warlike races, especially in Burms, which is mainly garrisoned by these corps, while in Central India the aboriginal Bhils find emission of the property ployment in the ranks. These, however, though a useful auxiliary, do not form part of the Army, and serve under the orders of the Civil Gov-

The Divisions of the Army are distributed as follows, their headquarters being at the Stations indicated.

Northern Army. Headquarters-Murree. 1st Division Peshawar •• ; 2nd Rawal Pindi 3rd Lahore ,, ٠. 7th Meerut Lucknow

Indian Brigades.

Derajat Brigade .. Dera Ismail Khan Bannu

Bannu Brigade Headquarters-Ootacamund. Southern Army.

Quetta Mhow 4th Division 5th . . 6th Poona Ootacamund Qth ٠. Burma Division Mandalay

Services of the Sepoy Army.

The history of the Army of India has now been traced since its inception down to the present time. The military history of the world pre-sents no more remarkable spectacle than that of the great army of soldiers of fortune which, led by a few British officers, has carried our flag into every corner of the Eastern Hemisphere during the past hundred and fifty years. Soldiers by birth and breeding the sepoys of Hindustan and of the four quarters of India have served the Empire from Northern China to Ceylon, from Egypt to the islands of the Eastern seas, in Belgium and in France. In the conquest of India itself, in seconding the valour of a handful of British soldiers, they have borne a conspicuous part. The very men who opposed ds so courageously in war— Sikhs, Gurkhas, Pathans of the North-West Frontier, Jats and Rajputs—have fought with no less valour in the ranks of our army. They sailed to the conquest of Bourbon, Mauritius and Java. With Cornwallis and Harris they sailed to and Java. With Cornwalls and Java. With Cornwalls and Java. With Cornwalls and Java. With Cornwalls and characterised by every physical feature and characterised by considerable varieties of climate. From Chiral to Makran varieties of climate. From Chiral to Makran to the considerable of the considerable of the considerable of climate. From Chiral to Makran varieties of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran varieties of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to considerable of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to the considerable of climate of considerable of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to the considerable of climate. From Chiral to Makran to the considerable of climate of c defeated Macedonians Porus the macedonians deteated Forus two thousand years before, they fought the battle of Chillianwala against the Sikhs, who have themselves since been among the bravest soldiers of our army. Every pass on the frontier traversed by the invaders of old contains the bones of brave men who have fallen in our service. The rude mountaineers of the the frontier have eagerly entered the ranks of our army. Beyond the limits of India our soldiers have entered most of the capitals of the East. They have carried the flag to Cabul, to Cairo, to Lhasa, to Peking, to Ava and to Mandalay. Sepoys accompanied Baird, and eighty years later Wolseley, to the Nile. The dark page of the Mutiny is itself illumined by many gallant deeds performed in our service by the native soldiers of the Empire. Lucknow was not defended by Europeans alone; among was not detenued by Europeans alone; among the bravest men on the Ridge before Delhi were men of Indian races; in the glorious campaign in Central India 1858 the wings of Sir Hugh Rose's Army were composed of native cavalry; the mutiny veterans who tottered into the arena at the Coronation Durbar at Delhi had in their ranks many soldiers of native race. In 1014 when the Coronation War broke out, H. E. the Viceroy, speaking on behalf of the whole country, pledged every the stronghold by Lord Lake's army in 1805. They now furnish us with 21 squadrons of caval-

Raj, and a great force of all arms, estimated to reach 150,000, was despatched to the seat of war in France and Belgium, in East Africa, Egypt, Turkish Arabistan and Shantung. This is not the time to speak of the conduct of Indian troops on their first appearance on the continent of Europe, but in the earliest encounters their courage and fortitude earned unstinted praise. (Q. V. India and the War.)

The Fighting Races.

The fighting classes that contribute to the composition of the Indian Army are drawn mainly from the north of India. Of these there are 35 squadrons and 214 companies of Sikhs, who 35 Squattons and 212 component of the first thus furnish a great part of the strength of both Infantry and Cavairy. The Sikhs, of whom an account has already been given, are distributed throughout the Punjab. Mahomedans of varithroughout the Punjab. Mahomedans of various races contribute a still larger proportion to both arms. These are drawn both from the north and south of India, as well as from beyond the frontier, where the tribes contribute 56 companies to our Infantry; while the Musalmans and Pathans of India itself furnish between them 68 squadrons of Cavalry and 250 com-panies of Infantry. These are all excellent fighting men, hardy and warlike, who have furnished soldiers to all the great powers of India for many hundreds of years. Large numbers of Mahomedans were to be found in the ranks of the Mahratta armies which opposed us during

Their proficiency as soldiers was first proved in the Nepal War of 1814, when they fought against us and has subsequently been displayed on many a field in the ranks of our army. cheerful and steady discipline of the Gurkha has always rendered him a valuable soldier, while his proficiency in the use of arms, including the national Kukri, has made him terrible in war. While such a wonderful marcher in the hills, the Gurkha soon tires in the plains.">

The professional military caste of India from time immemorial has been the Rajput, who inhabits not only Eajputana but the United Pro-vinces and Oudh. Of fine physique and martial bearing, these warriors of Hindustan formed the backbone of the old Bengal Army, and have sustained the British flag in every campaign in the East. Their high caste and consequent prejudices in no way interfere with their martial instincts and efficiency in war. This class now furnishes 10 squadrons of Cavalry and 100 companies of Infantry in our Army. Other classes which are found in the ranks are Jats, Dogras, Brahmins and Mahrattas. The Jats are a fine and warlike race, found in the Delhi and Rohtak districts and adjacent territory. It was these people who held out so bravely at Bharatpur

ry and 60 companies of infantry. Dogras are tary Works Service instead of to regimental good and steady soldiers, found in the hilly agency. Finally a bonus of half a month's districts of Punjab. The ruling Chief of pay, was granted to all non-commissioned Kashmir is of this caste, of which are 11 officers, and men and reservists of both the squadrons and 56 companies in the army. Brah-British and Indian armies, and to the equivamins are not now largely enlisted; while Mahrattas, famous as predatory horse in the historic past, now compose 54 companies of infantry. They are chiefly recruited in the Deccan and the Konkan. Nor must we forget the Hill Rajputs of Garhwal, good and gallant soldiers, who supply two battalions; and the low caste men of Madras so efficient as Pioneers and Sappers. Some 9,000 Madrasis are still in the ranks.

Improvements in Conditions.

Many improvements have been made in the They are thus summarised in the Report on the Moral and Material Progress of India for the decade 1901-02 to 1911-13. The decade began with an increase of the pay of British troops due to the adoption in India of the proposals of the Home Government for an increase of 2d. a day from the 1st April 1902. This involved an additional charge on Indian revenues of some £225,000 a year. In April 1904 a further increase of from 4d. to 7d. a day was given in the form of service pay. The whole of the service pay issued in India was in accordance with the decision of the Lord Chief Justice, acting as arbitrator between the Imperial and Indian Governments, borne by the latter, the extra charge being thus raised to about £700,000 a year. From the 1st January 1909, in accordance with the intention amounced in the Proclamation of the King Emperor on the fiftieth anniversary of the transfer of Government to the Crown, a general increase of pay for all ranks was granted to the Indian Army, and arrangements were made for the free supply of fuel by Government at a cost of £427,000 a year. The increase was Rs. 3 a month for non-commissioned officers and men of the silladar cavalry and Rs. 2 for other troops. Other measures that may be noticed were the raising of the kitmoney granted on enlistment and the introduction of a boot allowance, the grant of free duction of a boot allowance, the grant of free grass to silladar cavalry when on the march or at manœuvres and of free passages by rail (within certain limits) for men called home on urgent private affairs—all introduced in 1906; the revision and improvement of the pension rules of the Native Army, and the abolition of the punishment of flogging in time of pages event for offences for which that of peace, except for offences for which that punishment is permissible in civil life, in 1907-08; and a revision of the rates of pay of captains and subalterns of the Indian Army, and of regimental salaries, involving a considerable addition to the emoluments of the junior grades in 1909. Since 1910 considerable progress has been made with the improvement of the accommodation for the native troops. It had become obvious that this improvement was a matter of urgency in many cases, and with the persistent rise in prices and wages comfortable and durable buildings could no longer be constructed without a considerable increase of expenditure. In the new lines, a sound type of construction has been adopted, and the work has been entrusted to the Mili- garrison artillery, with some electrical engineer

tary Works Service instead of to regimental agency. Finally a bonus of half a month's pay, was granted to all non-commissioned officers, and men and reservists of both the British and Indian armies, and to the equivalent ranks of the Royal Indian Marine, at the Coronation Durbar in 1911, at a cost of about £168,000. On the occasion of the Coronation Durbar of 1902, a money grant to be spent at the discretion of officers commanding, was made to all British and native troops.

Reserves.

The Indian Army Reserve dates from 1886. The Indian Army Reserve dates from 1850. Under existing arrangements, it consists of men with not less than three years' colour service. Men passing into the Reserve still belong to their respective regiments, and come up for two months' training once in two years. In 1904 when the strength of the Reserve was about 24,500 men, it was decided to raise it gradually to 50,000 men, reducing the reserve pay from Rs. 3 to Rs. 2 a month, and also to form an Indian cavalry reserve by extending the system to Silladar cavalry regiments. Reservists obtain a pension after 25 years total service. There is a body of reserve officers whose numbers were largely increased soon after the outbreak of the war.

The Imperial Service Troops.

The voluntary movement towards co-opera-tion in the task of Imperial defence that led to the formation of the force of Imperial Service Troops was initiated in 1887 by an offer made by the Nizam of Hyderabad, whose example was at once followed by a number of the leading Native Princes. The troops, which are under regular inspection by British Officers, though available for Imperial service when placed at the disposal of the British Government by their Rulers, belong to the States and are re-cruited from their subjects. Their armament is the same as that of the Native Army, and in training, discipline, and efficiency they have reached a high standard of excellence. They reached a high standard of excellence. They have done good service on the North-West Frontier and also in China and Somaliland. At the beginning of the decade (1901-02 to 1911-12) twenty-three States between them supplied a total of over 16,000 men. Some additional offers of contingents have singe been accepted, and the total strength on 1st April 1912 was 22,271, towards which twenty-nine States contributed. The total included April 1912 was 22,271, towards which twenty-nine States contributed. The total included some 10,000 infantry, and 7,500 cavalry, while transport and camel corps contributed 2,700 and 700 men respectively. Sappers also numbered about 700, Gwallor contributes nearly 4,000 men, and Kashingara 2,500. Petitoly Westerd and Kashmir over 3,500; Patiala, Hyderabad and Alwar contribute over 1,000 each. On the outbreak of the war practically the whole body of Imperial Service Troops were immediately placed at the unfettered service of the King-Emperor. Many of these offers were contributed to the contribute of the service of the King-Emperor. Many of these offers were contributed to the contribute of the contributed to the contribute of the contributed to the contri Emperor. Many of these offers were gratefully accepted and large bodies of Imperial Service Troops proceeded to one or other of the theatres of the war. (Q. V. India and the War.)

Volunteers,

and other specialised companies. Their role is the defence of ports, railways, cantonments, and civil stations, a number of rifle corps are recruited from railway employes, forming valuable bodies for the defence of their respective.

In 1914, as the result of the stimulus given by the war, the strength of the Volunteer Force increased by over 6,000 of all ranks.

The Imperial Cadet Corps. " 1912 " 1911 ,, ,, ٠. . . . ,, 1910 " ٠. ,, 1909 ,, ,, 1908 ,, • • • • ,, 1907 ..

,, 1906

respectively. The Imperial Cadet Corps was founded in 43,671 1901 with the object of providing military 43,059 training for the scions of ruling and noble families. The Corps consists of about 20 young 40,969 men of noble birth who have been educated 38,875 at the Chiefs' Colleges. The course of instruction lasts between two and three years, and the 35,484 cadets are taught military exercises and military 33,972 science. Its headquarters are at Dehra Dhun.

STRENGTH OF THE ARMY.

The sanctioned establishment of the army in India for 1912-13 and its actual strength on 1st April 1913 were as follows:-

-	Sanctioned Establishment.	Actual Strength.
Troops under the orders of the Commander-in-Chief in India:		
British officers British warrant and non-commissioned officers and men Native officers, non-commissioned officers, and men Troops not under the orders of the Commander-in-Chief	5,756 73,233 160,091	5,686 73,395 149,920
British officers Indian officers, non-commissioned officers, and men	9 24,466	9 22,751
Total, 1912-13	263,555	251,761
" 1911-12	260,582	252,741

In 1912-13 seven battalions of Native infantry and one battery of Indian artillery were employed in the colonies and in China. One mountain battery of Royal Garrison artillery was employed in Egypt. There was an Indian contingent in Somaliland, and detachments of infantry and cavalry were employed in Persia.

The sanctioned establishment of the Native army reserve was 35,717 and its actual strength on 1st April 1913 was 33,712, as against 38,811 on 1st April 1912.

The number of Volunteers in the whole of India on 1st April was as under:—

				1912.	1913.
Enrolled strength		 	• •	38,948	41,083
Efficients		 	• •	38,247	88,830
Reservists	• •	 • •		3,113	3,178

The net expenditure on the army (exclusive of Military Works and Special Defence Works) in 1912-13 as compared with that in 1911-12 was as follows:-

					1911-12.	1912-18
Effective charges Non-effective charges	••	••	••	::	£ 15,271,932 3,085,248	£ 15,231,375 3,117,348
Effective charges Non-effective charges	Total			••	18,357,180	18,348,728

During the year 1912 there were no adverse During the year 1912 there were no adverse conditions to check the remarkable improvement of recent years. In the British Army the rates of invaliding and of mortality shown in the table given below were the lowest ever recorded. Enteric, malaria, and dysentery were less prevalent, but cholers, pneumonia, and veneral disease slightly more so. Owing, however, to improved treatment, invaliding rates for the last named declined. An important cause of the recent rapid improvement in health is personal burdene soldiers.

lectures the advantages of inoculation; while mosquito curtains, anti-larval operations, segregation, and quinine treatment are employed to guard against malaria. The marked de-cine in venercal diseases is attributed, apart from improvement of treatment to the encouragement of healthy pastimes, to education and a better moral tone, and to the growth of temperance. There was greater sickness and mortality during 1912 in the Northern than in the Southern Army. There was a decline in invaliding from 512 to 474; ment in health is personal hygiene, soldiers was a decline in invaliding from 512 to 474; being instructed how to protect themselves against enteric fever and malaria. As regards enteric fever, they are taught by leaflets and chief causes. The decline of admissions for

enteric from 3.8 to 2.6 per mile and malaria from 90.2 to 82.4 per mile is particularly gratifying. The rate for all venereal diseases was 55.6 per mile, as compared with 53.1 per mille, but the average number constantly sick from this cause has decreased. The chief causes of death were enteric fever and abscess of the liver, the mortality from these being 0.39 and 0.32 respectively. Of the 26 deaths from enteric ten were inoculated.

The health of the Native troops was good, the mortality. There were 18 though the admission rate has risen, probably owing to the inclusion of what had previously been reckoned as negligible complaints. The death-rate was the lowest on record. The chief cause of sickness was, as usual, malaria, rate was higher in the Southern.

the admission rate for 1912 being 89 per mille, as against 105 in 1911; the decrease was due partly to a more favourable year, and partly to anti-malarial measures which are being stremously carried out in all cantonments. Fyrexia, dysentery, and respiratory diseases were other important causes of sickness. Pneumonia, as usual, was the chief cause of mortality, the rate being 0.83 per mille. Enteric, cholera, and malaria helped to swell the mortality. There were 18 deaths from plague during the year. The chief causes of invaliding were tubercle of the lungs, anæmin, venereal diseases, and debility. Sickness was much higher in the Northern Army, but deathrate was higher in the Southern.

EXPENDITURE ON THE MILITARY SERVICES.

	Accounts, 1910-1911.			Revised, 1913-1914.	1914-1915 Budget.
Expenditure.	Rs.	Rs.	Rs.	Rs.	Rs,
India	•	Ì			
Effective Services—		,			
Administration Military Accounts Regimental Pay, etc. Supply and Transport	66,83,360 29,05,030 12,36,87,512 3,13,62,808	69,23,994 29,15,540 12,45,65,223 3,01,50,763	69,75,270 29,15,887 12,20,93,251 3,36,92,689	70,24,000 29,83,000 12,25,44,000 3,46,58,000	69,92,860 29,50,320 12,49,98,430 3,49,60,900
Veterinary Clothing Remounts	4,83,010 12,67,622 58,56,219	4,93,567 12,58,800 47,13,862	5,00,023 15,68,321 49,28,434	5,04,000 19,47,000 46,73,000	5,03,920 19,93,870 54,71,930
Medical Services Medical Stores Ordnance	59,31,695 4,71,111 90,19,530	57,83,758 5,65,779 88,17,906	56,96,320 5,06,150 98,54,097	57,64,000 4,89,000 98,29,000	60,26,400 5,06,570 1,06,75,350
Ecclesiastical Education Compensation for food, etc.	4,14,366 12,71,489 48,22,562	4,17,979 12,52,272 48,96,685	4,30,154 12,41,097 57,56,698	4,29,000 13,33,000 64,68,000	4,37,490 14,57,350 63,95,000
Miscellaneous Services Hutting Conveyance by road, river and sea.	24,82,495 4,39,805 8,62,827	89,22,432 3,04,955 8,74,856	31,25,192 6,98,816 15,95,814	26,27,000 2,15,000 8,73,000	21,09,280 2,00,000 9,00,950
Conveyance by rail Cantonments Unadjusted Expendi- ture.	37,76,339 16,02,327 8,08,319	43,35,239 13,63,144 —1,52,782	38,62,887 14,75,915 6,79,193	44,04,000 24,82,000	46,01,570 13,63,810
TOTAL RS.	20,41,48,426	20,84,03,972	20,62,37,820	20,92,46,000	21,25,46,000
Non-effective Services— .	1,05,14,653	1,04,85,675	1,07,43,291	1,09,77,000	1,10,03,000
TOTAL INDIA Rs	21,46,63,079	21,88,89,647	21,69,81,120	22,02,23,000	22,35,49,000
Equivalent in sterling £ .	14,310,872	14,592,643	14,465,408	14,681,500	14,903,200

EXPENDITURE ON THE MILITARY SERVICES.

	Accounts, 1910-1911.	Accounts, 1911-1912.	Accounts, 1912-1913.	Revised, 1913-1914.	1914-1915 Budget
England— Effective Services	£	£	£	£	£
Payments to War Office for British Forces.	935,055	914,000	941,643	912,000	920,000
Furlough allowances, etc., of British Forces. Consolidated Clothing	135,116 17,194	135,990 48,460	141,456 455	143,000 15,200	139,000 16,000
Allowances of Bri- tish Soldiers.	·				,
Furlough allowances, Indian Service. Indian Troop Service .	372,824 236,927	363,216 273,947	355,676 266,421	370,000 297,200	365,000
Other heads	132,846	61,824	107,854	137,700	108,100
Clothing Stores Ordnance and Miscel- laneous Stores.	83,706 268,084	58,676 340,189	52,712 506,097	100,500 533,000	60,000 693,000
Medical Stores Supply and Transport	86,247 ገ	104,612	95,980	97,400 (45,300	99,900 57,500
Stores. Military Farms Stores. Operations in Persian	24,755 9,896	51,005 50,620	52,879 43,848	11,200 41,000	11,000 50,000
Gulf (Stores). Stores taken to India with Troops.	33,579	36,825	24,409	24,300	29,100
Total £	2,336,229	2,439,364	2,589,430	2,727,800	2,870,600
Non-effective Services— Payments to War Office for British forces. Pensions, Indian Service Other heads	879,875 1,432,801 172,003	898,331 1,431,735 174,473	919,183 1,425,242 177,263	927,000 1,405,000 179,000	945,000 1,405,000 182,000
TOTAL £	2,484,679	2,504,539	2,521,688	2,511,000	2,582,000
TOTAL ENGLAND £	4,820,908	4,943,903	5,111,118	5,238,800	5,402,600
TOTAL EXPENDITURE £	19,131,780	19,536,546	19,576,526	19,920,300	20,305,800
Receipts.	Rs.	Rs.	Rs.	Rs.	Rs.
India Rs.	95,94,755	1,04,91,423	1,33,60,617	1,28,96,000	1,26,11,000
Equivalent in sterling £ England	£ 639,650 418,999	£ 699,428 479,938	£ 890,708 337,095	£ 859,700 359,100	£ 840,700 351,600
TOTAL RECEIPTS £	1,058,649	1,179,366	1,227,803	1,218,800	1,192,300
Total Net Expenditure £	18,073,131	18,357,180	18,348,723	18,701,500	19,113,500

ESTABLISHED STRENGTH of EUROPEAN and NATIVE ARMIES in BRITISH INDIA (exclusive of Native Artificers and Followers) for the year 1913-14.

•••	No	rthern A	ımy	1		ithern A	rm?	,	Total.			
corps.	Co m m is - sioned Offi- cers.	Warrant & Non-Com- mission ed Officers &	Privates.	Total.	Commis- sioned Offi- cers.	Warrant & Non-Com- mission ed	Privates.	Total.	Co m m i s - sioned Offi- cers.	Warrant & Non-Com - mission e d	Officers & Privates.	Total.
EUROPEAN ARMY.			1									
Royal Artillery	. 292	7,68	1	7,973	287	7,50	9	7,796	579	15,1	90	15,769
Cavalry	162	3,59	4	3,756	81	1,79	7	1,878	243	5,3	91	5,634
Royal Engineers	190		- [190	117	••		117	307			307
Infantry	784	28,16	4	28,948	672	24,12	26	24,798	1,456	52,2	90	53,746
Invalid & Veteran Establishment.				• •	·	••						••
Indian Army General List, In	70		l	70	21			21	91			91
fantry General Officer	.} 10		- }	10	6	••		6	10	••		16
unemployed	. 6	··	_ļ	6	4			4	10	<u> </u>		10
Total, European	1,514	39,43	9	40,953	1,188	33,4	3 2	34,620	2,702	72,8	71	75,573
~	·											
•	Bri	ish. Native		ative.	Brit	ish.	N	ative. Bri		tish.	Na	itive.
corps.	Officers.	Warrant and NC. O.	Officers.	NC. O.	Officers.	Warrant and NC. O.	Officers.	NC. O.	ОЩсегв.	Warrant and NC. O.	Officers.	NC. O. and Men.
NATIVE ARMY. Artillery Body-Guards Cavalry Sappers & Mines Infantry		1 3 2 139	1	6,440 280 5,446 1,971 6,600	11 4 211 54 918	202		3,603 142 8,804 3,183 63,392	68 8 584 86 2,026	 341	2	0,043 422 4,250 5,154 9,992
Total, Native	1,57	139	9	0,737	1,198	202	-	39,124	2,772	341	15	9,861
Imperial Service Troops	1			9,239	1			13,102	<u> </u>		2	2,341
Artillery .		::		1,234 893	::	::		526 391	::	::	<u> </u>	1,760 1,284
Artillery Cavalry Sappers Miners Infantry.		::	1	557 18,445	::	::		717 11,861	::	::	8	1,274 30,306
Volunteers Efficients Reservists	79	6 17,637 1 1,535		::	72	19,745 1,528		::	1,524	37,382 3,063		:: :

THE EAST INDIES SQUADRON.

Since 1903 a squadron of the Royal Navy, [Rear-Admiral Sir R. H. Peirse, K.O.B., M.V.O., known as the East Indies Squadron, has been maintained in Indian waters. It has naturally varied in strength from time to time, and of late years in particular there have been several changes in its Composition, the most recent being in the direction of strengthening it, owing to the disappearance of strength in the other squadrons of the Eastern Fleet. In 1903 the squadron consisted of one second class and three smaller cruisers and four sloops or gunboats. In 1906, when the policy of withdrawal from Eastern waters was inaugurated, it consisted of two second class and two third class cruisers, and remained at this strength until 1910: when one second class cruiser was withdrawn and two smaller vessels substituted, and three cruisers were lent from the Mediterranean to assist in the suppression of the arms traffic in the Guif. By 1913 the position of the East Indies squadron had considerably improved. The battleship Swiftsure had taken the place of the second class sure had taken the place or the second class eruiser which had been flagship, and a modern second class cruiser replaced the Perseus. This is apparently part of the scheme for con-stituting a Pacific Fleet of three "units," one unit being the Australian fleet which is ultimately to consist of 8 battle cruisers, 10 protected cruisers, 18 destroyers and 12 submarines, but up to the present it has completed, or nearly so, one battle cruiser, three others, six destroyers and three submarines. The other two "units" will be the squadrons stationed in China and Indian waters respectively.

The East Indies Squadron now consists of

the following ships:-Swiftsure, battleship, 11.800 Flagship:

tons.

Commander-in-Chief. Captain, Cecil Maxwell Lefroy.

Dartmouth, cruiser, 5,250 tons: Captain, Judge D'Arcy. Fox, cruiser, 4,050 tons: Captain F. W. cruiser, 5.250 tons: Captain,

Alert, sloop, 960 tons: Lieut. A. Johnstone. Espiegle, sloop, 1,070 tons. Commander, W. Nunn. Odin, sloop, 1,070 tons: Commander C. R.

Contributions to the Navy.

A cock and bull story, to the effect that the Native Chiefs of India were going to present three super-Dreadnoughts and nine first class cruisers to the Imperial Navy, was started in November 1912, and directed public attention to the question whether India was paying an adequate amount for the services rendered by the Navy. Even the Naval Annual (1913 edition) took part in the agitation for an increased contribution by India. It says: creased contribution by India. It says:—
"Rumour has been persistent regarding the attitude of India towards the Navy. Some exaggerated statements were published during the year, but nothing definite has been done. This is the more surprising when it is remembered that, although the scaborne commerce of India totals 115 millions sterling, the annual contribution to the Navy is only £100,000 out of a total revenue of 82 millions sterling. It is true that very heavy expenditure is involved in the military forces of India, but the com-merce, coast protection, and transporting of troops is dependent upon Britain's sea power. There is a prospect that India will voluntarily follow the example of the self-governing Dominions."

The proportion of contributions from the overseas Dominions towards naval expenditure is shown in the following table issued with the Navy Estimates for 1913-14:-

Received from	Nature of Service.				
	Maintenance of His Majesty's Ships in Indian Waters	£ 100.000			
India	Indian Troop Service (on account of work performed by the Admiralty) Repayment on account of services rendered by His Ma-	3,40			
	jesty's Ships engaged in the suppression of the Arms Traffic in the Persian Gulf	64,000			
Australian Common- wealth Dominion of Canada.	Contributions on account of liability for Retired Pay of Officers and Pensions of Men lent from the Royal Navy.				
	Survey of the N. W. Coast of Australia	7,500			
Do.	Maintenance of an Australasian Squadron and of a branch of the Royal Navy Reserve. Maintenance of an Australasian Squadron and of the Im-	41,600			
Dominion of New Bearing,	perial Navy generally, also of a branch of the Royal Naval Reserve	100,000			
Union of South Africa	General maintenance of the Navy	85,000			
Newfoundland	Maintenance of a branch of the Royal Navál Reserve	3,000			
*	Total	415,300			

India's Marine Expenditure.

That table, however, only shows a part of the expenditure made by India on the Navy. Since 1869 India has paid a contribution of varying amounts to the Imperial Government in consince 1000 main has paid a contribution of varying amounts to the imperial dovernment in consideration of services performed by the Royal Navy. Under existing arrangements, which date from 1896-7, the subsidy of £100,000 a year, already referred to, is paid for the upkeep of certain ships of the East India Squadron, which may not be employed beyond prescribed limits, except with the consent of the Government of India. The chief heads of marine expenditure, which amounts to nearly £400,000 annually, are shown below. Charges and receipts in respect of pilotage are no longer brought to account under this head:—

Marine Expenditure.						1911-12				
In India :—			•		-		-		Ī	£
General supervision an	d accou	ints	••	••]	10,263
Marine Survey Establis	h m en t		••	••	••				[6,139
Dockyards	••	••	••	••						65,388
Salaries and allowance	and v	ictuall	ing			••		••		75,828
Marine Stores and Coa	ı		••	••						60,215
Total, including o	ther ch	arges	• •	••						250,796
In England :-										
Contribution towards seas	the exp	enses	of His	Majesty	, shi	s empl	oyed ir	the Ir	dian	100,116
Stores-	••		••	••						62,375
Total, including o	ther ch	arges								199,932
Grand Total Exp	enditur	e								450,728
Receipts		••		••						84,900
Net Expenditure	`	••		••					••	£365,88

ROYAL INDIAN MARINE.

The Royal Indian Marine (The Sea Service) the E. India Co. took over Bombay, Captain under the Government of India) traces its Young of the Marine was appointed Deputy-origin so far back as 1612 when the East India Governor. From then until 1877 the Marine Company stationed at Surat found that it was was under the Government of Bombay, and necessary to provide themselves with armed although from that date all the Marine Englishment of the Marine Englishment of the Marine Englishment of the Marine Englishment of the Marine Englishment of the Marine Englishment of the Marine Englishment of the Marine Englishment of the Marine Englishment of the Marine Englishment of the Marine Englishment of the Marine Englishment of the Marine Englishment of the Marine Englishment of the Marine Marine Englishment of the Marine Englishment of the Marine Englishment of the Marine Mari Company stationed at Surat found that it was necessary to provide themselves with armed vessels to protect their commerce and settlements from the Dutch or Portuguese and from the pirates which infested the Indian coasts. The first two ships, the Dragon and Hoseander or Oslander), were despatched from England in 1812 under a Captain Best, and since those days under slightly varying titles and of various strengths the Government in India have always maintained a sca service.

The periods or titles have been as follows:-Hon. E. I. Co's Marine 1612-1686 1686—1830 1830—1863 Bombay Indian Navy

tablishments were amalgamated into an Imperial Marine under the Government of India, Bombay has continued to be the headquarters and the official residence of the Director.

War Service of the Marine.

1612-1717. Continuous wars against Dutch, 1012-1/17. Containation was agained Java-Portugues and Pirates for supremacy of West Coast of India. 1744 War with France, cap-ture of Chandernagore, and French ship In-dienne. In 1756 Capture of Castle of Cheria, 1774 Mahratta War, capture of Tannah. Latter part of the eighteenth century, war with French and Dutch, Capture of Pondicherry, Trincomalee, Jainapatam, Colombo,

Tara. 1813 Expedition against Sultan Sambar. 1817-18 Mahratta War, capture of Forts at Severndroog. 1819 Expedition to exterminate piracy in the Persian Gulf. 1821 Expedition bs. 1824-26 First 1820 Capture of Mocha. against the Beni-koo-Ali Arabs. 1824-26 First Burma War. 1827 Blockade of Berbera and Somaii Coast. 1835 Defeat of Beni Yas Pirater. 1838 Expedition to Afghanistan and capture of Karachi. 1838 Capture of Aden. 1840-42 War in China. 1843 Scinde War Battle of Meanee, capture of Hyderabad. 1845-46 Maori war in New Zealand. 1848-49 War in Punjab, siege of Mooltan. 1852 Second War in Punjao, siege of Mooitan. 1022 Second Burma War, Capture of Rangoon, Martaban, Bassein, Prome and Pegu. 1855 Persian War, capture of Bushire, Muhammerah and Ahwaz. 1856-57 War in China. 1857-59 The Indian Mutiny. 1859 Capture of the Island of Beyt. 1860 China War, Canton, Taku Forts, Fatshan and Pekin. 1871 Abyssinian War. 1882 Egyptian Campaign. 1885 Egyptian Campaign. 1885 Egyptian Campaign. 1885 Third Burma War. 1889 Chin-Lshai Expedition. 1896 Suakin Expedition. 1897 Expedition to Imtirbe, Mombassa E. Africa. 1899–1902 S. African

of War. 1900-01 Boxer Rebellion China. relief of Pekin. 1902-04 Somaliland Expedition.

Personnel, 1914.

DIRECTOR. Captain Walter Lumsden, C.V.O., A.-D.-C., R.N. (Retired), Office Residence, Government

Dockyard, Bombay.
(The Director, R.I.M., advises the Government of India on all maritime matters). DEPUTY DIRECTOR.

Captain G. S. Hewett, R.I.M., Off. Residence. Marine House, Calcutta. ASSISTANT DIRECTOR.

Captain E. J. C. Hordern, R.I.M., Off. Residence, R.I.M. Dockyard, Bombay.

	OFFIC	ers.			
Commanders					32
Licutenants and	Sub-Li	eutona	nts	• •	72
Chief Engineers			••	• • •	10
Engineers and Assistant Engineers				• •	73
Wari	BANT (PFICE	38.		
Gunners .					23
Clerks		••			20
Engine Drivers					21

PETTY OFFICERS AND MEN.

2.225 Recruited from the Ratnagiri District of the Bombay Presidency.

Troopships	. R. I. M. S. Dufferin6315 tons 10,191 Horse Power. , Hardinge5467 , 9,366 , 7,249 ,,					
(The above would be armed in the event of war.)						
Station Ship Despatch Vessel	. B. I. M. S. Dalhousie . 1524 tons 2.202 Horse Power, Aden , Mayo 2.157 , Rangoon, , Lawrence 903 ,, 1,277 ,, Persian G.					
-	Carries 4.4 pds., F. gun.					
Special Service	.: " Minto 960 tons 2,025 " Persian Guif.					
(employed on suppression of arms traffic).						
Surveying Shlp River Steamer	R. I. M. S. Investigator .1014 tons 1,500 Horse Power. , Palinurus 299 , 486 , Baghdad.					
(carries 2 0.45, 5 Barrel Nordenfelt guns).						
River Steamer	R. I. M. S. Bhamo 172 tons 250 Horse Power, Burma 360 360					
In addition to the above are 39 launches composed of special service launches, target, towing tugs, powder boats, military service launches, etc.						

Dockyards.

There are two Royal Indian Marine Dockyards at Bombay and at Calcutta, the former being the more important. There are 5 graving docks and a wet basin at Bombay, together with factories which enables the whole of the repairs for the ships of the East India Squadron of the Royal Navy and for the ships of the Royal Indian Marine and local Governments to be carried out, and tugs, lightships, pilot schooners, launches, etc., constructed.

PRINCIPAL OFFICERS, BOMBAY DOCK YARD. R. I. M. Officers.

Staff Officer, Conr. C. W. Ramsay, R.I.M. Inspector of Machinery, Chief Engineer H. Knight, R.I.M.

CIVILIAN OFFICERS.

Chief Constructor, Mr. T. Avery. Constructor, Mr. D. H. North.

PRINCIPAL OFFICERS, CALCUTTA DOCKYABD.

R. I. M. Officers.

Staff Officer, Commander H. Morland, R.I.M. Inspector of Machinery, Chief Engineer J. Lush, R.I.M.

CIVIL OFFICERS. Constructor, Mr. G. P. Newnham. Appointments.

In addition to the regular appointments in the ships of the Royal Indian Marine, and in the R. I. M. Dockyards, the following appointments under local Governments are held by officers in the Royal Indian Marine.

BOMBAY.

Port Officer, Assistant Port Officer, 1st Engineer and Ship Wright Surveyor and 2nd and 3rd Engineers and shipwright surveyors to the Government of Bombay.

CALCUTTA.

Port Officer, Deputy Port Officer and Assistant Port Officer, 2nd and 3rd Engineers and shipwright surveyors to the Government of Bengal.

BURMA.

Principal Port Officer, Burma, First Assistant Port Officer, Rangoon. Engineer and ship-wright surveyor to Government of Burma. Do. do. Assistant. do.

Port Officer, Akyab, Moulmein and Bassein. Marine Transport Officer, Mandalay, and Superintending Engineer, Mandalay.

Presidency Port Officer and Deputy Conservator of the Port.

CHITTAGONG.

Port Officer, and Engineer and Shipwright Surveyor.

ADEN.-Port Officer.

KARACHI.-Port Officer.

PORT BLAIR.—Engineer and Harbour Master.

Expenditure.

Recent expenditure on the Royal Indian Marine under all heads has been :-

£ 479,928 1912-13 £ 498,700 1913-14

Against this were receipts, from Dockyards, for outside work done, and from sales of vessels, stores, etc. which amounted in 1912-13 to £ 87,669 and in 1913-14 to £ 84,300 so that the actual cost to the State for the whole service was :-

£ 3,32,259 1912-1913 .. ₺ 414,400 1913-1914

THE NICHOLSON COMMITTEE.

The Earl of Crewe (Secretary of State for India) announced in the House of Lords on November 2, 1911, that the Government of India was conducting an inquiry into the various departments, with the view of seeing what economies might be effected, and in that operation the Department of the Army was and if so, what measures for the reduction any and if so, what measures for the reduction any and if so, what measures for the reduction any and if so, what measures for the reduction are the penalty of the Army with economies might be effected, and in that op-eration the Department of the Army was pro-perly included, but there would be no sacrifice of the safety of India or any risk in maintain-ing order. They had been asked by the Gov-ernment that they should be assisted in making an inquiry into the whole military position by a Committee over which Field-Marshal Sir W. Nicholson would preside.

The Committee met in Simla in May 1912, consisting of:—F. M. Sir W. (afterwards Lord) Nicholson; Lt. General Sir Percy Lake, Chlef of the General Staff in India; Lt.-Gen. Sir Robert Scallon, Indian Army; and Sir William Meyer, Chlef Secretary to the Government of Madras (now Finance Member of Council). The Committee waves instructed by their terms of re-

of Military expenditure are compatible with the efficient maintenance of that force. Its deliberations, which were private, continued until Lord Nicholson left India in April, 1913, and it was announced in the House of Commons that the Committe's report would not be published. According to the Military correspondent of The Times (June 2, 1913) it has "been known for some time past that a division of opinion has taken place within the Committe. Lord Nicholson and Sir William Meyer have signed what must be called by courtesy a majority report, because the distinguished Field-Marshal was given the invidiance edvantage of Scallon, Indian Army; and Sir William Meyer, Chief Secretary to the Government of Madras (now Finance Member of Council). The Committee were instructed by their terms of reference:—First, to carry out a comprehensive survey of the various circumstances requiring the use of Military Force which may arise out of the external or interal situation in India under the conditions which now exist or may probably report. Pool the distinguished Field-report in the strong exception to many of the proposals made by their colleagues, and will doubtless the external or interal situation in India under the conditions which now exist or may probably report would not be published.

Indian Finance.

mind in considering the finances of India. The first is that the Budget of the Government of India includes also the transactions of the Local Governments, and that the revenues enjoyed by the latter are mainly derived from sources which they share with the Central Government. The principles underlying the relations of the supreme with the local governments are explained in the chapter dealing with this question. Generally speaking, certain heads of revenue are divided equally between the provinces and the Imperial Government, and certain heads are enjoyed entirely by the local governments. These vary with different provinces, but broadly it may be said that the divided heads are land revenue, excise, stamps, income-tax and the in-comings from the large irrigation works. The Provincial Governments take the whole of the receipts under forests and registration, and the income of the spending departments which they manage, such as ordinary public works, police, education, medical, courts and jails. The Government of India take the whole of the revenue accruing from the export of opium, sait, customs, explained in the chapter dealing with this quesaccruing from the export of opium, salt, customs, accruing from the export of opium, sait, customs, mint, railways, posts and telegraphs, military receipts and tribute from Native States. As regards the expenditure, the Government of India are mainly responsible for the outlay relating to defence, railways, posts and telegraphs, interest on debt and home charges; and the provinces for charges connected with land revenue and general administration, forests, police, courts and jails, education and medical, whilst charges for irrigation and ordinary public works are common to both Imperial and Provincial. The second point is that a very large proportion of the revenue of the Government of India is derived not from taxation but from great State enterprises. It may be taken roughly that nearly two-thirds of the gross revenue is derived from sources other than taxation, such as the land revenue, opium, forests, tribute from Native States, posts and telegraphs, railways and irrigation. The third point is that the Secretary of State for India enters into very large inancial transactions on behalf of the Indian Government in order to meet what are generi-cally known as the Home Charges. These amount now to some eighteen millions sterling amount now to some eighteen millions sterling and are met by the Secretary of State selling for gold drafts in rupees on the Indian Tressuries known as the Council Bills or telegraphic transfers. These Home Charges were for many years erroneously described as a "drain" on India. A large proportion however goes to defray the interest on the sterling debt and the outlay on the purchase of stores and railway materials which cannot be ac-quired in India. The only part of the Home Charges which by any stretch of the imagination can be termed a "drain" is that which stands for civil and military officers on leave or pension, and here it is now recognised that India receives exceedingly good value for services rendered. One supplementary point which needs consideration is that the finances of India heave been artificially inflated for several years by purpose of a reserve against unforess the unusual opium receipts. The Government tingencies, seasonal or otherwise, the of India used to sell opium for export to of which might cause embarsasment.

Three important facts have to be borne in China or the right of exporting opium to China and in view of the approaching end of this trade inflated prices were given for opium for export.

This led to large windfall surpluses which for several years made the Government finances appear more prosperous than they really are.

Ten Years' Finance.

We may now turn to the financial results of the last ten years in pounds sterling.

		Revenue.	Expendi- ture.	Surplus.							
1903-4		£ 71,000,000	£ 68,000,000	£ 3,000,000							
1904-5	::	71,100,000	67,700,000	3,400,000							
1905-6		70,800,000	68,700,000	2,100,000							
1906-7		73,100,000	71,500,000	1,600,000							
1907-8		71,900,000	70,700,000	300,000							
1908-9		69,800,000	73,500,000	*3,700,000							
1909-10		74,600,000	74,000,000	600,000							
1910-11	::	80,300,000	76,900,000	3,400,000							
1911-12		82,835,750	78,895,416	3,940,334							
1912-13	::	86,985,300	83,623,400	3,361,900							
1913-14		84,262,000	83,675,000	587,000							
1914-15		85,033,000	86,962,000	*1,929,000							

* Deficit.

Provincial and Imperial.—At this stage one point should be made clear. According to the unexplained figures the Government of India deliberately budgetted for a deficit of nearly £ 2 millions. This arises from the intermingling of Provincial with Imperial finance. During the halcyon years when large surpluses accrued to naicyon years when large surpluses accrued to the treasury from the opium surpluses and the general prosperity of the country, the Govern-ment did not reduce taxation, but devoted these surpluses in part to the extinction of floating debt and the avoidance of further debt by financing public works from revenue; and in part to large grants to the Local Governments for ameliorative works, chiefly in improving education and sanitation. But the spending of this money involved long pre-paration, with the result that the Local Government accumulated very large balances in excess of the normal. As these plans have matured, the Local Governments are ready to draw on the accumulations. It is estimated in the current year, for example, that they will reduce the balances by no less than £ 3.2 millions. If the provincial overdraft is excluded from the Budget estimate, there is provided an Imperial surplus of £ 1·2 millions. This is a larger surplus than it has been the practice to budget for in the past and in accounting for it the Finance Member explained that it was desirable to have an unallotted balance of about this amount to assist the Government in their heavy capital commit-ments. Such a surplus, he added, also serves the purpose of a reserve against unforeseen contingencies, seasonal or otherwise, the occurrence

The influence of provincial finance on the Imperial Budget is clearly set out in the following table:-

Budget Estimates for 1914-15.

[In Millions of £]

	T	Revised, 1913-	14.	Budget, 1914-15.			
	Imperial.	Provincial.	Total	Imperial.	Provincial.	Total.	
Revenue Expenditure	53·619 52·291	30·643 31·384	84·262 83·675	54·261 52·981	307·72 33·981	85·033 86·962	
Surplus (+) or Deficit(—)	+1.328	-· 741	+.587	+1.280	-3.209	—1·929	

Budget Features.—Every Indian budget is based on the expectation of a normal monsoon. But very few Indian monsoons are normal, consequently the story of Indian finance is one of alternate surpluses and deficits. Close estimating being impossible, cautious estimates of revenue must be made ;again, it is no uncommon experience to find that the spending departments are not able to spend up to their estimates, owing to the delay in obtaining material from England, shortage of labour, or the necessity of maturing plans before works can be launched. Although the increased resourcefulness of the people, owing to the extension of industry and people owing to the extension of industry and the large sums of money that have flowed into the country owing to the high prices of export crops, has introduced a steadying force into finance, budgetting is still largely what an exfinance Member described it, "a gamble in rain." Calculating on these principles the budget for the year 1914-15 places the aggregate revenue for the year at £ 85, 033,000, or about £ 2 million more than the revenue of the previous year. Under Opium an improvement of £ 145,000 was anticipated. The trade in opium with China is dead, the Government of India having practically agreed not to ship further supplies practically agreed not to ship further supplies to that country. The large stocks which had accumulated at the Treaty ports owing to the restrictive practices enforced by the Chinese Government were largely liquidated and the embarrassments which threatened to accrue from this source were removed. Apart from the China trade, there is a considerable, though much less remunerative, trade with Far Eastern Countries, such as the Straits Settlements, Hongkong, and the Dutch East Indies, and as high prices are expected, the opium revenue was put at this larger figure. The net revenue from Railways is put at £ 190,000 below the figure of the current year, as the trade conditions are not brilliant and the increase in working expenses is considerable. Customs and Mint are estimated to be less productive by £ 118,000 and £ 155,000 respectively. Land Revenue is estimated at £ 612,000 more than in the previous year, owing to the expected recovery of the United Provinces from famine conditions. Taking the revenues as a whole, the Finance Member budgeted for an aggregate increase of £ 771,000 of which the Government of India would obtain £ 642,000 and the Provincial Governments £ 129,000. The Finance Member claimed that

that they point to sound and stable fiscal conditions.

Expenditure.

The aggregate Imperial and Provincial expenditure budgeted for in 1914-15 is £ 86,962,000, or an increase of £3,287,000 above the expenditure of the previous year. The increase under Imperial heads is estimated at £ 690,000 only, the remainder being due to Provincial, and being due in the main to drawings on the abnormally large balances at present in the possession of the Local Governments. Amongst the most marked features on the expenditure side of the account is an addition of £ 262,000 under the head of Interest due to the heavy borrowings to finance the railway and irrigation programme, and £ 487,000 under Military services. The cause of the larger military expenditure was first the high cost of provision demanding a corresponding increase in the sepoys' pay, which is fixed on a sliding scale governed by the price of grain; and stores and new rifles for the Army.

Education and Sanitation.—After for providing for the needs of the services and other agencies and for the surplus of £ 1 28 millions alluded to the Government of India found themselves with £ 240,000 not allotted. Out of this sum £100,000 was allotted to the Government of Burma for expenditure in improving com-munications. Burma is almost a roadless Province, and for many years there has been a strong demand for a regular system of feeder roads in order to assist in the development of the enormous possibilities of the country. So strongly did Burma feel on the point that it offered to find the money required by a further and voluntary cess on the exports of rice. That scheme has not been sanctioned, but the special allotment by the Government of India for communications involves the recognition that the province cannot be longer neglected. Next £ 40,008 (recurring) were allotted for the remission of a number of miscellaneous contributions which the local authorities pay to the Local Governments for services rendered by the provincial establishments. This allotment is a step in the direction of further increasing the funds of the Local Bodies. ther increasing the tunds of the Local Bodies, by relieving them of charges which have pressed on their limited resources. Then further recurring grants of £ 60,000 for Education and £ 40,000 for Sanitation were provided, thus disposing of the balance of £ 240,000 at the reading the figures as a whole it is manifest discretion of the Finance Member.

Six Years' Progress.—The grants under these two heads may be small in comparison with the huge allocations of recent years. But this appearance vanishes if the accompanying circumstances are analysed. The grants for education and sanitation must be considered in conjunction with those for civil works, because much of this comes under these two heads. The following table shows the expenditure under these heads since 1910-11, that year being taken because it is the last year before large grants began to be given by the Government of India.

[In thousands of £]

•			Education.			Medical.			Civil Works.		
\ \			Imperal.	Provincial,	Total.	Imperial,	Provincial.	Total.	Imperial,	Provincial.	Total.
1910–11			73	1,773	1,846	78	905	983	714	3,823	4,537
1911-12			58	1,963	2,021	67	1,088	1,155	834	4,619	5,453
1912-13			120	2,490	2,610	185	1,142	1,327	1,124	4,936	6,060
1913-14, Budget			144	3,934	4,078	163	1,858	2,021	1,076	5,506	6,582
1913-14, Revised	i		119	3,123	3,242	142	1,236	1,378	1,092	5,954	7,046
1914-15, Budget		•.•	164	3,836	4,000	184	1,701	1,885	1,108	6,347	7,455

From this it will be seen that the scale of expenditure under Education and Medical has practically doubled, and that there has been an increase of 64 per cent, under Civil Works. The figures given below illustrate how far this increased expenditure has been financed by special grants from the Government of India.

Expenditure from special Imperial grants included in provincial expenditure.

[In thousands of £]

					-	•							
			Education.	Medical.	Education.	Medica].	Other objects.						
1911-12 1912-13	::	::	144 488	136 108	70 199	40 222	142 290						
1913-14, Revi 1914-15, Budg	sed et		920 1,604	185 526	265 252	341 263	517 710						

Taking the two tables together, and comparing 1914-15 with 1910-11 it will be seen that the direct expenditure on education has increased by £ 2,154,000, and with Educational Civil Works included£ 2,406,000; expenditure under Medical (which includes sanitation) has increased by £ 902,000, or £ 1,165,000, including Civil Works: and the expenditure under Civil Works by £ 2,918,000. Although the grants for these purposes during the current year are relatively small it does not follow that there will be any slackening of the progress recorded during recent years. The Local Governments are well supplied with funds, and if they reduce their balances by the figure estimated £ 3.2

closing balances on March 31st, 1915, aggregating £ 6.6 millions. In fact, it is very doubtful if they will be able to spend upto their budget

Capital Account .- Reference has been made to the manner in which the financial statement of the Government of India is complicated by transactions on capital account-by provision for railways and irrigation, and since the transfer of the capital, for the new Delhi. It has been the practice in the past to finance these works in part from revenue surpluses and in part from borrowings in India and in London. Revenue surpluses have been drawn upon so largely for this purpose that there is really no unproductive debt in millions, during the year, they will still have India, and the nominal figure of unproductive

debt is only £ 12 millions (q. v. Debt.) large balances accruing from the opium surpluses over and above the allotments made to the Local Governments and the redemption of temporary debt, allowed the allocation of exceptionally large sums from balances to the avoidance of debt. Last year, for instance, a capital programme of £191 millions was financed so largely from balances and surpluses that the total sum borrowed was only £ 2 millions, and that in India. During the current year there are not these resources on which to draw, and the Finance Member was confronted with the problem of financing a capital programme amounting to £17.9 millions, chiefly from borrowings. The manner in which this was done indicates a new departure in policy. It was agreed to borrow £ 8 millions in London. Whilst this sum is largely in excess of recent borrowings in London, financiers are agreed that it is modest in comparison with the borrowings of other developing countries like Canada and Australia, especially seeing that the money is spent on England in railway material, and is not exported even for reproductive expenditure in India itself. Then it was decided to raise the borrowings in India to five crores of rupees (£3.3 millions). This is the largest internal loan ever attempted in a single year by the Government of India, the previous largest figure being Rs. 44 crores in 1906-07. Thirdly it was decided to increase the facilities for depositing in the Post Office Savings Banks, raising the limit of an annual deposits from Rs. 500 gross to Rs. 750 net, and the total amount a depositor may hold in ordinary deposit from Rs. 2,000 to Rs. 5,000. The effect of these changes of policy was to give the capital programme the following shape:—

Outlay.		£	: Million
Capital outlay on (a)	Railways		12.0
(c)	Irrigation Delhi	:	1·2 ·7
Repayment of India Bo Ontiay from Provincial	onds, etc.	-	· 7 3· 2
Local Loans Account, Provincial		and	• 1
. Provincial		TAL	17.9
•	10	TAL	17.8

			£	: Million	ι,
Assets.					
From balances .				4.6	
Imperial surplus of 19	14-15			1.3	
Runee loan				3.3	
Sterling borrowings				6.2	
Unfunded debt	- 1	·		1.8	
Famine insurance	allotn	ent:	and		
minor items .	•	•	•	• 7	
		Тота	ъ.	17.9	
		-0	- •		

Some adverse comment was caused by the reduced provision for Irrigation whilst maintaining the full provision of £ 12 millions for Railways, but this arose from the shortage of labour. The Irrigation allotment represented the full amount which the Engineers estimated they could spend. The effects of the new policy of developing the internal credit of the country were remarkable. The five crores loan was a great success, the total applications amounting to Rs. 12 crores whilst the average price was Rs. 95-9-7, or more than As. 4 above the figure estimated by experienced financiers. The issue estimated by experienced financiers. was immediately followed by a rise in Government Paper above 96. The revision of the Post Office Savings Bank rules induced a large increase in deposits. The Indian loans in London were also floated with ease. It is important to consider however that, although no public an-nouncement was made on the question, the Finance Member effected an important improvement in the Treasury system, offering to lend from the Government Balances to the Presidency Banks at moderate rates of interest, and keeping larger balances with the Presidency Banks, instead of locking them up in sterile Reserve Treasuries. (q. v. Currency.)

Railways.—This is a question which properly belongs to the railway heading (g,v) but inasmuch as since the disappearance of the profits from the oplum trade with China the railway profits have come bulk largely in the budget, they may be indicated here. The financial aspect of the railway property of the Government of India for the past five years is indicated in the following table.

In thousands of £. .

	1910–11.	1911–12.	1912-13.	1913–14.	1914-15.
Capital outlay to end of each year Net profit from railways during the year after meeting all charges in-	300,996 2,017	308,961 3,788	318,903 4,803	331,083 4,650	343,086 3,921
cluding interest. Percentage of net profit to capital outlay.	•67	1.23	1.51	1.40	1.14

The disadvantage of the railway head is that it still further makes the finances of India dependent on the character of the monsoon. Railway profits entirely hinge on trade, and this binges on the rainfall, whereas the opium surplus was largely independent of the character of the monsoon.

REFERENCES.—The Indian Budget (Gazette of India, March 2nd, 1914; London 232 of 1914.) India, its administration and Progress (Macmillan) By Strachey.

India and the Durbar (Finance, By Sir William Meyer) Murray.

The details of the budget are set out in the following table. As the manner in which the great heads of income like land revenue, railways, irrigation and customs are realised is described in separate articles (q. v.) they need not detain us here.

	RF	EVEN	UE.			Accounts, 1912-1913.	Revised Estimate, 1913-1914.	Budget Estimate, 1914-1915.
Principal Head	of R	evenu	e—	-		£	£	£
Land Revenu		••				21,282,468	21,096,700	21,708,800
Opium						5,124,592	1,605,600	1,751,100
Salt						3,334,374	8,419,700	3,436,900
Stamps		••	• •			5,069,115	5,237,500	5,371,600
Excise	••					8,277,919	8,906,700	9,148,500
Customs				• •		7,197,243	7,355,100	7,236,800
Other Heads		•••	••	••	••	5,553,119	5,437,400	5,887,300
	TOTAL	PRIN	KCIPAL	HEADS	·	55,838,830	53,058,700	53,991,000
.								
Interest	••	••	• •	• •	••	1,473,708	1,377,300	1,376,000
Post Office	••	••	• •	• •	••	2,262,436	2,400,800	2,552,100
Telegraph	••	••	• •	• •	••	1,174,124	1,178,300	1,180,300
Mint	ii'n	-::-		• •	• •	487,359	404,500	249,800
Receipts by Civ	лц Деј	partmo	ents	••	••	1,334,847	1,394,100	1,437,800
Miscellaneous						765,207	715,700	731,700
Railways: Net	Recei	ipts				17,371,789	17,519,400	17,329,700
Irrigation			• •	•••		4,411,217	4,553,100	4,559,300
Other Public W	orks	• •	• •			355,447	279,900	239,400
Military Receip			••	••	••	1,387,634	1,379,800	1,386,100
		Ton	TAL RE	VENUE		86,862,598	84,261,600	85,032,700
	70 TV TO	E STYLE	TURE					
Direct Demand				٠		8,653,304	9,354,500	9,341,000
Enterest		ic ic.	****	::	::	1,810,535	1,554,000	1,607,800
Post Office	••	••	•••	••	::	2,026,567	2,109,200	2,082,000
Telegraph	••	••	••	••	- ::	1,105,946	1,182,700	1,268,000
Mint	••	••	••	••	- ::	142,343	136,500	104,300
Salaries and Ex	nancas	of Ci	vil Tan	artmen		16,688,755	18.047.800	19.778.400
Miscellaneous C			vii Dop	aromou		4,926,232	5,418,800	5,397,700
Famine Relief a				••	- ::	1,000,000	1,000,000	1.000.000
	terest			iscellan		1,000,000	1,000,000	1,000,000
Charges						12,568,435	12,869,900	13,409,000
Irrigation	••		••	::	::	3,301,928	3,558,400	3,631,400
Other Public W	orks	::	••	::	- ::	6,063,769	7,048,800	7,456,500
Military Service		::	::	• • • • • • • • • • • • • • • • • • • •	-::	20,953,100	21,399,200	21,886,100
COTAL EXPE	NDITU		Імрев	IAL	AND			
PROVINCIAL 4dd—Provincia			••			79,240,914	83,674,800	86,962,200
of allo	ment	s to P	rovinci	al Gov	rern-	. 1		
						4,514,050	63,900	•••••
ments:		encira	onditee	18, PO	TUOD			
ments: D <i>educt-</i> -Provin	ulas D	I 17~~		te ucir	⊪Acr		005 000	3,209,300
ments: Deduct—Provin of Pro	vincia		alances	• • •	· • •	••••	805,000	3,408,000
ments: Deduct—Provin of Pro from F	vincia rovin	cial B	alances		•••			
ments: Deduct—Provin of Pro	vincia rovin	cial B	alances GED TO	REVE		83,754,964	82,933,700	83,752,900
ments: Deduct—Provin of Pro from F	vincia rovin	cial B	alances GED TO		TUE			

THE LAND REVENUE.

The principle underlying the Land Revenue ception may be taken to this statement of system in India has operated from time immemorial. It may be roughly formulated thus—othe Government is the supreme landlord and the Government and the cultivator. The to rent. On strictly theoretical grounds, ex-latter pays for it according to the value of his

Temporary Settlements.

Elsewhere the system of Temporary Settlements is in operation. At intervals of thirty years, more or less, the land in a given district is subjected to a thorough economic survey, on the basis of the trigonometrical and topographic surveys carried out by the Survey Department of the Government of India, Each village area, wherever the Temporary Settlement is in vogue, has been carefully mapped, property-boundaries accurately delineated, and records of rights made and preserved. Under the Permanent Settlement in Benzal the occuthe Permanent Settlement in Bengal the occupant does not enjoy these advantages. The duty of assessing the revenue of a district is pant does not enjoy these advantages. The duty of assessing the revenue of a district is entrusted to Settlement Officers, members of the Indian Civil Service specially delegated for this work. The duties of a Settlement Officer are thus described in Strachey's India (revised effition, 1911):—"He has to determine the amount of the Government demand and to make a record of all existing rights and responsibilities in the land. He has a staff of experienced subordinates, almost all of whom are natives of the country, and the settlement of the district assigned to him is a work which for merly required several years of constant work. The establishment of agricultural departments and other reforms have however led to much simplification of the Settlements. So described to much simplification of the Settlements. All the work of the settlement officer is proceedings, and to much greater rapidity in the completion of the Settlements. So were the supervision of superior officers, the assessments proposed by him require the sanotton of the Government before they become finally defeated the revenue charge varies and other response to the supervision of superior officers, the assessments proposed by him require the sanotton of the Government before they become finally signed memorial to fix one-offith of the of the Government before they become finally

holding. The official term for the method by which the Land Revenue is determined is "Settlement." There are two kinds of settlement in India—Permanent and Temporary. Under the former the amount of revenue has been fixed in perpetuity, and is payable by the bean fixed in perpetuity, and is payable by the by village communities, the heads of the villandlord as distinguished from the actual culti-landlord as the effect intended of converting a number of large being responsible for the payment of revenue on the whole village area. This latter system from the former lost disadowners in Europe. The actual cultivators became solely responsible for the payment of the landlords. While the latter became solely responsible for the payment of the revenue, the former lost the advantage of the revenue, the former lost the advantage of the revenue, the former lost the advantage of was levied on the anticipated yield of the land holding from the State. This system has prevailed in Bengal since 1795 and in the greater part of Oudh since 1859. It also obtains in certain districts of Madras.

Elsewhere the system of Temporary Settlements is in operation. At intervals of thirty years, more or less, the land in a given district is subjected to a thorough economic survey, on the basis of the trigonometrical and topograment of the distriction of the trigonometrical and topograment of the Government of India, Each while area, wherever the Temporary Settlement is in vogue, has been carefully mapped property-boundaries accurately delineated, and records of rights made and preserved. Under the Permanent Settlement is never the property-boundaries accurately delineated, and records of rights made and preserved. Under the Permanent Settlement is never the provided for in definite rules.

Incidence of the Revenue.

The incidence of the revenue charges varies to the supervision of superior officers, the assessments proposed by him require the sanction of the Government before they become finally binding; and his judicial decisions may be reviewed by the Civil Courts. It is the duty of the settlement officer to make a record of every right which may form the subject of future dispute, whether affecting the interests of the State or of the people. The intention is to alter nothing, but to maintain and place on record that which exists."

The Two Tenures.

Under the Temporary Settlement land tenures fall into two classes—peasant-holdings and landlord-holdings, or Ryotwari and Zemindari tenures. Broadly speaking, the difference between the two in a fiscal sense is that in Ryotwari tracts the ryot or cultivator pays the revenue direct; in Zemindari tracts the land-points are noted—(1) In Zemindari tracts

progressive moderation is the key-note of the Where under the Permanent Settlement (in Government's policy, and the standard of 50 the words of the Resolution quoted above), per cent. of the assets is more often departed from on the side of deficiency than excess; Zemindars, the Bengal cultivator was rack-Government's policy, and the standard of 50 per cent. of the assets is more often departed from on the side of deficiency than excess; (2) in the same areas the State does not hesitate to interfere by legislation to protect the interests of the tenants against oppression at the rests of the tenants against oppression at the hands of the landlords; (3) In Ryotward tracts the policy of long-term settlements is being extended, and the proceedings in connection with new settlements simplified and cheapened; (4) local-taxation (of land) as a whole is neither immoderate nor burdensome; (5) over-assessment is not, as alleged, a general over-assessment is not, as alleged, a general or widespread source of poverty, and it cannot fairly be regarded as a contributory cause of famine. At the same time the Government laid down as principles for future guidance—(a) large enhancements of revenue, when they laid down as principles for future gudance— (a) large enhancements of revenue, when they occur, to be imposed progressively and gradually, and not per sallum; (b) greater elasticity in revenue collection, suspensions and remissions being allowed according to seasonal variations and the circumstances of the people; (c) a more general resort to reduction of assessments in cases of local deterioration.

Protection of the Tenants.

In regard to the second of the five proposi-In regard to the second of the five proposi-tions noted above, various Acts have been passed from time to time to protect the in-terests of tenants against landlords, and also to give greater security to the latter in posses-sion of their holdings. The Outh Tenancy Act of 1886 placed important checks on en-hancement of rent and eviction, and in 1900 an Act was passed enabling a landowner to entail the whole or a portion of his estate, and entail the whole or a portion of his estate, and to place it beyond the danger of alienation by his heirs. The Punjab Land Alienation Act, passed at the instance of Lord Curzon, embodied the principle that it is the duty of a Government which derives such considerable proportion of its revenue from the land, to interfere in the interests of the cultivating classes. This Act greatly restricted the credit of the cultivator by prohibiting the alienation proportion of its revenue from the land, to who require fuller information:—"Land Reveninterfere in the interests of the cultivating use Policy of the Indian Government." 1902 classes. This Act greatly restricted the credit of the cultivator by prohibiting the alienation! Baden Powell's "Land Systems of British of his land in payment of debt. It had the Indian, 'is Sir John Strachey's "India, its effect of arresting the process by which the Administration and Progress, 1911," (Macmil-Punjab peasantry were becoming the economic land & Co., 'M. Joseph Challley's "Adminiserfs of money-lenders. A good deal of legislation affecting land tenure has been passed from time to time in other provinces, and it that the time in the provinces, and it has been called for more than once in Bengal, Governments.

rented, impoverished, and oppressed."

Government and cultivator.

While the Government thus interferes between landlord and tenant in the interests of the latter, its own attitude towards the cultivator is one of generosity. Mention has already been made of the great advantage to the agricultural classes generally of the elaborate systems of Land Survey and Records of Rights carried out and maintained by Government. In the Administration Report of Bombay for 1911-12, it is stated:—"The Survey Department has cost the State from first to last many lakhs of rupees. But the outlay has been repaid over and over again The extensions of cultivation which have occurred (by allowing cultivators to abandon unprofitable lands) have thus been profitable to the State no less than to the individual; whereas under a Zemisulari or kindred system the State would have gained nothing, however much cultivation had extended throughout the whole of 30 years' leases." On the other hand, the system is of advantage to the ryots in reducing settlement operations to a minimum of time and procedure. In the collection of revenue the Government consistently pursues a generous policy. In times of distress suspensions and remissions are freely

granted after proper inquiry.

The amount of gross revenue raised on the land is estimated in 1914-15 at £21,708,800 out of a total from all sources in the same year of £85,032,700. This compares very favourably with the £34,000,000 of land revenue recorded as having been raised annually from a smaller

empire by Aurangzebe.

The literature of the subject is considerable. The following should be consulted by readers who require fuller information:—" Land Reve-

EXCISE.

ed from the manufacture and sale of intoxicating liquors, hemp drugs and opium. It is a commonplace amongst certain sections of tem-perance reformers to represent the traffic in intoxicating liquors as one result of British rule. There is, however, abundant evidence to show that in pre-British days the drinking of spirituous liquors was commonly practised and control were the limitation of the number of was a source of revenue.

The forms of intoxicating liquor chiefly con-

The Excise revenue in British India is deriv-| two-thirds of the total receipts from liquors. It is usually prepared by distillation from the Mahuva flower, molasses and other forms of unrefined sugar, formented pain juice and rice. The British inherited from the Native Administration either an uncontrolled System or in some cases a crude Farming System and the first steps to bring these systems under shops in the area farmed, and the establishment of an improved Out-Still System under which sumed are country spirit; fermented palm juice; the combined right of manufacture and sale at beer made from grain; country brands of rum, a special shop was annually granted. This of brandy, etc., locally manufactured mait beer course was a kind of control, but it only enabled brandy, etc., locally manufactured malt beer course was a kind of control, but it only enabled and imported wine, beer and spirits. Country spirit is the main source of revenue, except in the Madras Presidency, and yields about vend fees. It did not enable Government to

dard of purity or a fixed strength of liquor. Moreover for political and other reasons the extent of control could not at first be complete. extent of control could not at first be complete. There were tribes of aborigines who regarded the privilege of making their own liquor in their private bomes as a long established right; and who believed that liquor poured as libations to their god should be such as had been made by their own hands. The introduction of any system amongst those peoples had to be worked very cautiously. Gradually, as the Administration began to be consolidated, the numerous native pot-stills scattered all over the country under the crude arrangements then in force began to be collected into Central Government enclosures called Distilleries, thus enabling Government to perfect its control by narrowing the limits of supervision; and to regularize its taxation by imposing a direct still-head duty on every gallon issued from the Distillery. Under Distillery arrangedirect still-nead duty on every gainon issued from the Distillery. Under Distillery arrangements it has also been possible to regulate and supervise thoroughly the manufacture of liquor and its disposal subsequent to its leaving the Distillery by means of a system of transport passes, establishment supervision, improved distribution and vend arrangements.

Various Systems.

The Out-Still System may be taken to include all systems prior in order of development to the imposition of Still-head duty. Briefly stated the stages of development have been-First: farms of large tracts; Second: farms of smaller areas: Third: farms of the combined right to manufacture and sell at particular places without any exclusive privilege over a definite area; Fourth; farms of similar right subject to control of means and times for disstilling and the like. The Provincial Govern-ments have had to deal with the subject in different ways suited to local conditions, and so the order of development from the lower forms of systems to the higher has not been always everywhere identical in details. Yet in its essence and main features the Excise Administration in most provinces of British India has progressed on uniform lines, the key in its simplest forms, to combine the farming and fixed duty systems with the object of securing that every gallon of spirit should bear a certain amount of taxation. The Out-Still System has in its turn been superseded by either the Free-supply system or the District Monopoly system. The Free-supply system is one of free competition among the licensed distillers in respect of manufacture. The right of vend is separately disposed of. The District monopoly system on the other hand is one in which the combined monopoly of manufacture and sale in a district is leased to a farmer subject to a certain amount of minimum stillsubject to a certain amount of minimum stillhead duty revenue in the monopoly area being guaranteed to the State during the term of the lease.

The recommendations of the Indian Excise Committee of 1905-06 resulted in numerous reforms in British India, one of them being or several sanctioned shops, that the various systems have been or are gradually being superseded by the Contract Distance of 1905-06 resulted in numerous to the public is sold by annual auction to one or several sanctioned shops.

The opium revenue in 1914-15 is estimated dually being superseded by the Contract Distance of 1905-06 resulted in numerous reforms in 1914-15 is estimated dually being superseded by the Contract Distance of 1905-06 resulted in numerous reforms in 1914-15 is estimated dually being superseded by the Contract Distance of 1905-06 resulted in numerous reforms in 1914-15 is estimated dually being superseded by the Contract Distance of 1905-06 resulted in numerous reforms in 1914-15 is estimated dually being superseded by the Contract Distance of 1905-06 resulted in 1914-15 is estimated dually being superseded by the Contract Distance of 1905-06 resulted in 1914-15 is estimated dually being superseded by the Contract Distance of 1905-06 resulted in 1914-15 is estimated dually being superseded by the Contract Distance of 1905-06 resulted in 1914-15 is estimated dually being superseded by the Contract Distance of 1905-06 resulted in 1914-15 is estimated dually being superseded by the Contract Distance of 1905-06 resulted in 1914-15 is estimated dually being superseded by the Contract Distance of 1914-15 is estimated dually being superseded by the Contract Distance of 1914-15 is estimated dually being superseded by the Contract Distance of 1914-15 is estimated dually being superseded by the Contract Distance of 1914-15 is estimated dually being superseded by the Contract Distance of 1914-15 is estimated dually being superseded by the Contract Distance of 1914-15 is estimated dually being superseded by the Contract Distance of 1914-15 is estimated dually being superseded by the Contract Distance of 1914-15 is estimated dually being supersed of 1914-15 is estimated dually being supersed of 1914-15 is estimated

graduate the taxation accurately on the still-tillery System under which the manufacture head duty principle nor to insist upon a stan-of spirit for supply to a district is disposed of murry system under which the manufacture of spirit for supply to a district is disposed of by tender, the rate of still-head duty and the supply price to be charged are fixed in the contract and the right of vend is separately disposed of. This is the system that now prevails over the greater portion of British India. The other significant reforms have been the revision of the Provincial Excise Laws and regulations, and the conditions of manufacture, vend, storage and transport, an improvement in the quality of the spirit, an improved system of disposal of vend licences, reductions and or disposal of venu hences, reductions and redistributions of shops under the guidance and control of local Advisory Committees, and gradual enhancement of taxation with a view to checking consumption.

The average incidence of taxation per proof

gallon of distillery spirit amounted in 1911-12 to Rs. 5-2-6, Rs. 4-8-6 was derived from still-head duty and Re. 0-10-0 from vend fees. The

head duty and Re. 0-10-0 from vend fees. The average consumption per 1,000 of the population in distillery areas varies from 23 gallons in Eastern Bengal to 173 gallons in the Bombay Presidency Proper (1910-11).

Sap of the date, palmyra, and cocoanut palms, called toddy, is used as a drink either fresh or after fermentation. In Madras and Bombay the revenue is obtained from a fixed fee on every tree from which it is intended to draw the liquor. In Bengal and Burma the sale of shop licenses is the sole form of taxation. Country brands is the sole form of taxation. Country brains of rum, and so called brandies and whiskies, are distilled from grape juice, etc. The manufacture is carried out in private distilleries in various parts of India. A number of breweries has beeen established, mostly in the hills, for the manufacture of a light beer for European and Eurasian consumption. The uniform fee of 3 annas per gallon is levied all over India at the time of issue.

Foreign liquor is subject to an import duty at the tariff rates, the most important of which is Rs. 9-6-0 per proof gallon on spirit and 3 annas per gallon on beer. It can only be sold under a license.

DRUGS.—The narcotic products of the hemp plant consumed in India fall under three main categories: namely, ganja or the dry flowering tops of the cultivated female hemp plant; India has progressed on uniform mies, the key tops of the cultivated female hemp had note lying in attempts, where it has not been charas, or the resinous matter which forms an possible to work with the fixed duty system in its simplest forms, to combine the farming bhang, or the dried leaves of the hemp plant whether male or female cultivated or unculti-vated. The main features of the existing sys-tem are restricted cultivation under supervision, storage in Bonded Warehouses, payment of a storage in noncea warenouses, payment of a quantitative duty before issue, retail sale under licenses and restriction on private possession. Licenses to retail all forms of hemp drugs are usually sold by auction.

OPIUN.—Oplum is consumed in all provinces in India. The drug is commonly taken in the form of pills; but in some places, chiefly on social and ceremonal occasions, it is drukt

on social and ceremonial occasions, it is drunk on social and ceremonial occasions, it is drunk dissolved in water. Opium smoking also prevails in the City of Bombay and other large towns. The general practice is to sell opium from the Government Treasury, or a Central Warehouse, to licensed vendors. The right of retail to the public is sold by annual auction to one or several sanctioned shops.

The opium revenue in 1914-15 is estimated at \$1.751.100; the Evides revenue at \$0.145.00

SALT.

The salt revenue was inherited by the British both for Bengal and Burma, is imported from Government from Native rule, together with a Liverpool, Germany, Aden, Bombay and Madras, miscellaneous transit dues. These transit dues Broadly, one-half of the indigenous salt is were abolished and the salt duty consolidated and raised. There are four great sources of supply; rock salt from the Salt range and Kohat Mines in the Punjab; brine salt from factories are under the control of the Northern

rom the Sambhar Lake where brine is extracted and evaporated by solar heat. In the Ram of Cutch the brine is also evaporated by solar heat and the product is known as Baragara at which figure it now stands. The successive salt. In Bombay and Madras sea water is reductions in duty have led to a largely increased iet into shallow pans on the sea-coast and evaporated by solar heat and the product sold between 1903-1908. To illustrate the growth of throughout India. In Bengal the damp climate together with the large volume of fresh water from the Ganges and the Brahmaputra into the Bay of Bengal render the manufacture of revenue is 515 lakhs or £3,436,900.

Kohat Mines in the Punjab; brine sait from factories are under the control of the Rottnern the Sambhar Lake in Rajputana, salt brine condensed on the borders of the lesser Rann of Cutch; and see sait factories in Bombay, Madras and Bombay the manufactories are under the supervision of Local Governments. Special treatties with The Sait Range mines contains an inexhaus-The Salt Range mines contains an inexhausThe Salt Range permit of the free movement of the salt stream, and th

CUSTOMS.

The Indian fiscal system consists of a moderate tariff for revenue purposes only. There is a general import duty of five per cent. and coal. Iron and steel pay a nominal duty advalorem on all goods imported by sea, with special conditions for textiles and a large free list. Export duties are levied only on rice, at the rate of three annas per maund of 82 pounds. The export is principally from Burma.

The import duties have varied from time to the Imperial Customs Service responsible to the maccording to the financial condition of the country. Before the Mutiny they were five per cent. In the days of financial stringency which followed they were raised to 10 and in some cases 20 per cent. In 1875 they were reduced to five per cent, but the opinions of Free Traders, and the agitation of Lancashire manufacturers who felt the competition of the Indian Mills, induced a movement which India in 1980 to the per cent and the competition of the Indian Mills, induced a movement which India in 1980 to the per cent and in India in 1980 to the per cent and in India in 1980 to the Imposed In India Mills, induced a movement which Indian Mills, induced a movement which Free Traders, and the agitation of Lancashire manufacturers who felt the competition of the Indian Mills, induced a movement which led to the abolition of all customs dues in 1882. The continued fall in exchange compelled the abolition of all customs dues in 1882. The continued fall in exchange compelled the abolition of all customs dues in 1882. The continued fall in exchange compelled the abolition of all customs dues in 1882. The continued fall in exchange compelled the abolition of all customs dues in 1882. The continued fall in exchange compelled the abolition of a Government of India to look for fresh sources of revenue and in 1894 five per cent. duties of revenue and in 1894 five per cent. duties being excluded. Continued financial stringency brought piece-goods within the scope of the tariff, sand after various expedients the demands of tax and after various expedients the demands of five hundred rupees and upwards. Many tax on all incomes derived from sources other Lancashire were extisted by a general duty of the appropriate of the produced. These excise duty on goods are intensely unpopular in India, for reasons set out in the special article dealing with the subject. In 1910-11, in order to meet the deficit of the produced of the special article dealing with the subject. In 1910-11, in order to meet the deficit of the produced of the special article dealing with the subject. In 1910-11, in order to meet the deficit of the produced of the special article dealing with the subject. In 1910-11, in order to meet the deficit of the produced of the special article dealing with the subject. In 1910-11, in order to meet the deficit of the produced of the special article dealing with the subject. In 1910-11, in order to meet the deficit of the produced of the special article dealing with the subject of the produced of the special article dealing with the subject of th

The Customs revenue for the current year is estimated at Rs. 10,85,52,000, or £ 7,236,800. The Customs Department is administered by an Imperial Customs Service responsible to

THE DEBT OF INDIA.

loans raised in India and sterling loans raised in works. Considerable additions to the rupee and England. At the end of 1910-11 the rupee loans, sterling debt were made in the two years 1898-97 bearing interest, amounted to Rs. 37,92,40,200 and 1897-98 in consequence of famine, plague, (=£91,949,347) and the sterling debt to war, and the prosecution of railway extension, £177,981,751. There were also at the end of the and to the sterling debt in 1900 and subsequent £177,981,751.

vulsion caused a large increase in the rupee debt cen which stood at Rs. 635 55 millions in 1859-60, with ever following the suppression of the revolt for The debt then gradually rose to Rs. 697 57 millions by 1874-75, and another large increase occurred in the speeding depth of the spe occurred in the succeeding decade, due to the great famine of 1877-78 and to the military operations in Afghanistan which followed the famine. By 1883-84 the rupee debt rose to Rs. 931 25 milions. There was then a further RS. 1,007 48 millions in 1883-84, and to Rs. 1,052 8 millions in 1893-94. A three per cent. loan was raised in July 1896, and the debt stood at Rs. 1,082 12 millions at the end of 1896-97 and increased to Rs. 1,191 99 millions in 1903-04, to Rs. 1,258 75 millions in 1905-06, to Rs. 1,366 67 millions in 1909-10, and to Rs. 1,397 93 millions in 1911-12.

Growth of Debt.

The interest-bearing sterling debt was very small until the mutiny year, but the increase was rapid after that. As in India, the rate of loan of £5,000,000 was raised towards providing for railway capital expenditure of 1908-09 and

tne rupee debt was incurred in connection with 4 per cent.

The registered debt of India consists of rupee the construction of railways and other public £177,981,751. There were also at the end of the i and to the sterling debt in 1900 and subsequent year Rs. 17,31,955 (=£115,464) and £16,544 of years for the purchase of the G. I. P. Railway, the rupee and sterling loans, respectively the discharge of its debentures, and advances of not bearing interest, chiefly representing Indian Railway Companies. In addition to the unconverted paper.

When the trading charter of the East India Company expired in 1835, the rupee debt was company on Rs. 332 '95 millions. Fifteen years later, in the purchase of the undertaking on the 31st 1850-51, the debt reached Rs. 453 '36 millions, December 1907. At the end of 1911-12 the and it stood at almost exactly that sum in the total registered debt in India and England was year wearing the mutiny of 1857. That conyear preceding the mutiny of 1857. That condistributed in the proportion of 12 and 88 per vulsion caused a large increase in the rupee debt cent. between "Ordinary Debt" (£33,041,732 which stood at Rs. 635.55 millions in 1859-60, with interest £1,435,152) and "Debt incurred the proportion of 12 and 88 per vulsion caused a Rs. 635.55 millions in 1859-60, with interest £1,435,152) and "Debt incurred the proportion of 12 and 88 per vulsion caused a large increase in the rupee debt cent. between "Ordinary Debt" (£33,041,732 which stood at Rs. 635.55 millions in 1859-60, with interest £1,435,152) and "Debt incurred the rupee debt cent." Works "

Interest.

The interest on the rupee debt was at the rate of six per cent. in 1822, and the debt bearing this rate was not finally paid off until 1858-59. Meanwhile the Government borrowed, from 1823 until 1852-53, at five per cent. and from 1824 (but in a small way until 1835) at four per cent. The bulk of the five per cent. debt was converted to four per cent. in 1854, but the shock to the credit of the State caused by the mutiny necessitated more borrowing at the higher rate of five per cent. and that loan was not finally extended until 1871. Meanwhile the Government tinguished until 1871. Meanwhile the Government were compelled to borrow at 51 per cent. in 1859, and this 51 per cent. loan was not closed until 1878-79. A small sum was borrowed at 4½ per cent. in 1856-57, and the debt at this rate of interest was largely increased in 1871 by the was rapid after that. As in India, the rate of 4½ per cent. In 1856-57, and the debt at this rate interest on the sterling debt has been gradually reduced from 4, 4½, and 5 per cent. to 2½, 3, and 3½ per cent. respectively. At the end of 1910-11 per conversion of the 5½ per cent. loan. By 1878-79 practically the whole rupee debt bore interest at proportions of the debt held at these rates are ½1,892,207 at 2½ per cent., £66,724,530 (including 3 per cent., India stock of the nominal value of \$23,000,000 issued in August 1900, £2,000,500 issued in May lissued in 1903-04, £2,500,000 issued in 1903-04, £2,500,000 issued in 1904-05, £1,080,146 issued in 1905-06, and £20,000,000 issued in 1906-07) at 3 per cent. In May 1907 and £25,511,748 at 3½ per cent. In May 1907 and £25,511,748 at 3½ per cent. In May 1907 and £25,511,748 at 3½ per cent. In May 1907 and £25,500,000 issued in 1908 a further 3½ per cent. and £35,511,748 at 3½ per cent. In May 1907 and £25,500,000 was raised and in January 1908 a further 3½ per cent. Sent in 1808-97 a new loan of Rs. 40 millions was raised at 3 per cent. On the 4th millions was raised at 3 per cent. On the 4th July 1900 a loan of Rs. 30 millions was raised at for the discharge of certain Bombay, Baroda 31 per cent. and this was followed by other and Central India Railway debentures. Similoans, at the same rate of interest, of Rs. 10 larly in February 1909, a loan of 27,500,000 and millions on the 14th August 1901, Rs. 15 millions for the discharge of certain Bombay, Baroda and Central India Railway debentures. Similarly in February 1909, a loan of £7,500,000 and in January 1910 a further loan of £7,500,000 on the 14th August 1901, Rs. 15 millions in January 1910 a further loan of £7,500,000 on the 9th July 1902, Rs. 20 millions on the were issued at the same rate of interest. In 2nd July 1903, Rs. 30 millions on the 18th July October 1910, 3\frac{1}{2} per cent. India Bonds for 1910, 84,000,000 were issued for the discharge of the Madras and Indian Midland Railway debentures and in March 1911 a new 3\frac{1}{2} per cent sterling loan of £3,500,000 was issued to provide funds for capital expenditure in 1911-12.

Railway Expenditure.

A large proportion both of the sterling and of the rupee debt was incurred in connection with \(\frac{1}{2} \) per cent. and this was followed by other loans, at the same rate of finterest, of Rs. 10 large rate of Rs. 10 large rate of Rs. 10 large rate of Rs. 10 millions on the 18th July 1904, Rs. 25 millions on the 20th July 1910, and Rs. 20 millions on the 20th millions bore interest at 3\frac{1}{2} per cent. Rs. 84 49 millions at 3 per cent. and Rs. 34 3 millions at tangible assets) and £238,000,000 debt incurred for railways and irrigation. The net unproductive debt is actually £ 12½ millions (1914).

AMOUNT of the RUPEE and STERLING DEBT and of the Interest thereon, annual Increase or Reduction of the Debt; and the Proportion of the Rupee Debt held in London, from 1820-21 to 1912-13.

	Registered Registered debt in London.				off each	owed and paid year -; paid off—)	Proportion of the registered rupee debt held in
					In India.	In England.	London on 31st March.
	Rs.	£	Rs.	£	Rs.	£	Rs.
1820-21 1830-31 1840-41 1850-51 1860-61 1861-62 1861-63 1863-64 1864-65 1866-66 1866-67 1867-71 1871-72 1872-73 1873-74 1874-75 1877-78 1878-70 1878-70 1878-80 1880-81	27,24,77,630 33,12,96,890 29,47,65,040 45,42,87,550 63,44,58,100 63,42,11,060 63,32,11,060 63,38,11,060 63,38,63,40 62,38,10,770 62,97,84,230 63,76,50,020 63,41,00,90,50 65,59,34,220 66,41,72,910 67,96,80,420 66,41,72,910 67,96,80,420 67,17,29,31,280 72,77,29,310 71,92,31,280 74,95,45,250 82,87,25,090 85,59,597,460	5,762,888 3,750,479 1,756,902 3,920,502 28,406,917 32,116,217 31,860,017 26,146,017 26,967,317 28,559,917 29,718,417 31,218,917 35,217,617 39,012,617 41,117,617 41,117,617 48,507,033 49,707,033 50,627,033 50,677,033 50,677,033 50,677,033	1,63,15,400 1,74,19,770 1,35,37,050 2,12,39,750 2,12,39,750 2,12,39,750 2,88,32,440 2,88,32,440 2,88,96,320 2,88,08,180 2,89,19,520 2,89,187,13,200 2,89,187,270 2,98,17,500 3,01,56,310 2,98,08,300 2,98,17,500 3,01,56,310 2,98,20,500 3,03,35,320 3,15,20,180 3,10,98,710 3,22,68,610 3,25,77,260 3,41,76,560 3,55,92,700	253,247 93,377 59,856 136,482 1,249,832 1,457,874 1,430,765 1,209,621 1,233,165 1,274,230 1,402,640 1,448,875 1,469,916 1,629,868 1,726,209 1,781,618 1,831,467 1,807,121 2,105,384 2,212,582 2,436,271 2,607,472 2,581,555 1,937,886 2,846,478	-26,73,970 +75,52,710 +1,15,89,400 +1,10,72,750 -2,49,650 +40,02,610 -41,72,740 -3,71,480 -98,56,070 +78,65,790 -35,43,110 +2,18,27,310 +1,21,62,350 +1,15,92,36,260 +1,15,92,36,260 +2,92,36,29 -34,92,36,280 +2,92,36,280 +3,93,32,6,880 +2,92,36,280 +3,93,32,6,880 +3,93,32,6,880 +3,93,32,6,880 +3,93,32,6,880 +3,93,32,6,880 +3,93,32,6,880 +3,93,32,6,880 +3,93,32,370	-109,268 -45,413 -400 -100 -13,619,300 -5,627,500 -186,500 -188,500 -1,592,600 -1,188,500 -1,188,500 -1,398,700 -2,410,000 -7,479,416 -1,200,000 -6,60,000 -4,280,000 -4,7,918 -9,826,439 -2,573,577	15,38,06,930 16,24,51,720 17,64,70,910 13,56,38,930 13,04,77,110 13,27,22,950 14,05,77,880 14,21,01,680 15,78,70,170 17,14,82,780 20,52,60,670 20,26,31,450

					AMOUNT of the	RUPEE and STE	ERLING DEBT-(0	ontd).		
	Registered debt in		Registered debt in London.	Interest p	ayable.	Amount borro off each (Borrowed +	ı vear	Proportion of the registered rupee debt held in London on		
	-			India.	London.			In India.	In England.	81st March.
				<u>- </u>	1 1					
1881-82 1882-83 1883-84 1884-85 1885-86 1886-87 1887-88 1888-89 1880-91 1890-91 1891-92 1892-93 1893-94 1894-95 1895-96				88,65,31,620 90,68,87,660 93,19,13,840 93,18,36,600 92,70,39,820 92,65,36,380 102,76,11,750 102,74,65,550 102,69,23,170 102,93,75,520 105,54,00,780 104,37,37,400 103,78,89,280 109,11,65,530	68,181,947 68,585,694 68,108,837 69,271,088 73,806,621 84,228,177 84,140,148 95,033,610 98,192,391 104,408,208 104,404,143 106,688,767 114,113,792 116,005,826 116,903,732	3,66,43,280 3,74,11,490 3,84,91,140 3,84,18,550 3,77,38,380 4,03,78,580 4,13,73,120 4,21,56,080 4,17,51,110 4,17,15,000 4,12,77,760 4,20,20,060 3,61,99,140 3,64,00,740 3,78,43,760	2,708,108 2,725,748 2,704,207 7,691,828 2,833,008 3,105,411 2,918,039 3,230,474 3,524,376 3,602,349 3,570,882 3,687,986 4,825,823 3,618,208	+2,69,34,160 +2,03,56,040 +2,50,26,180 -77,240 -47,96,780 -5,03,460 +5,43,62,260 -1,48,8,40 -1,46,200 -5,42,380 +2,45,2360 +2,50,52,260 -1,17,23,380 -1,17,23,380 +24,52,550 +24,52,550 +24,52,550 +24,52,550 +25,60,85,260 -1,17,23,380 +5,37,61,250	-3,287,186 +443,747 -476,857 +1,162,251 +4,535,638 +10,421,556 -88,029 +10,893,462 +3,158,781 -6,215,817 +2,995,935 -720,370 +7,430,025 +1,892,034 -1,02,094	22,65,59,550 22,58,11,320 22,08,76,180 21,83,98,370 20,71,23,580 19,14,95,570 20,81,88,870 21,71,40,680 21,59,40,490 26,73,12,950 27,50,56,410 25,93,38,610 24,16,55,410 23,62,59,66 24,06,66,620
1897-98 1898-99 1899-1900 1900-01 1901-02 1902-03 1903-04 1904-05 1905-06 1906-07 1907-08 1908-09 1909-10 1910-11 1911-12 1912-13			::	111,69,56,340 112,65,46,980 112,47,47,010 115,33,19,058 116,19,13,833 117,55,40,660 119,42,43,035 122,29,78,235 126,08,10,618 139,45,50,655 132,82,94,955 132,82,94,955 132,82,94,955 138,90,72,155 138,90,72,155 138,90,72,155 138,90,38,205 142,83,64,790	123,274,680 124,124,401 133,435,377 134,307,900 133,796,261 133,045,844 132,887,191 146,457,439 147,518,634 156,481,074 160,973,369 170,105,911 177,908,335 178,486,597 179,179,193	3,87,11,060 3,91,13,340 3,90,65,317 4,00,58,600 4,03,60,615 4,08,37,864 4,14,90,065 4,24,92,528 4,38,10,365 4,53,88,937 4,61,66,110 4,68,19,197 4,76,47,428 4,81,24,302 4,87,76,458	3,940,776 3,882,758 3,877,026 4,158,851 4,218,827 4,238,273 4,282,744 4,715,233 4,748,108 5,053,632 5,210,695 5,530,758 5,686,417 5,705,597 5,754,885	+2.58,05,810 +95,90,640 -17,99,970 +2,85,72,048 +85,94,775 +1,36,26,827 -1,87,02,375 +2,87,35,200 +3,78,32,383 +4,37,40,037 +2,37,44,300 +1,73,65,550 +2,27,72,600 +1,25,39,050 +1,86,64,050	+8,391,447 +993,925 -124,204 +9,290,978 -871,771 -510,829 -750,417 -158,653 +13,570,248 +1,061,195 +8,962,440 -4,492,295 -9,132,542 +7,892,424 +488,262	21,50,87,030 21,44,12,330 20,81,88,234 22,18,12,195 20,36,62,034 18,63,35,034 17,13,92,234 16,81,55,234 16,43,82,933 16,49,16,833 15,23,21,73 14,36,433 15,21,10,933 12,78,49,738 11,73,08,533

THE RUPEE DEBT.

Return of the Interest Bearing Rupes Debt of the Government of India as at 31st August 1914.

In Thousands of Rupees.

Particulars.	Date of Issue.	Conditions of Repayment.	Amount	Total.
Railway Loans—	1			
Maharaja Holkar 41 p. c.	(1870–77)	After 101 years	10000	
Maharaja Scindia 4 p. c		Perpetual	15000	
Nawab of Rampur 4 p. c.	(1892–93)	After one year's notice to	4700	2970
Special Loans—		be given on or after 1st Dec. 1917.		2970
Gwalior, 4 p. c. 1887		By annual instalments of	12200	
G Wallot, # p. 0. 100.	• • • • • • • • • • • • • • • • • • • •	12 lakhs.		1220
Three and Half per cent				
1842-43		1	225166	
1854-55	30th June 1854	1	334852	
Three and Half p. c. coupon	4-1-75 4005		6150	
1865		Í	376507 39712	
Reduced, 1879	30th June 1900		395769	
1900-1	0000 0 mie 1900		080.08	1378156
1896-97	22nd July 1896		82141	8214
·	1	TOTAL		150219

DISTRIBUTION OF RUPEE DEBT.

<u> </u>	•	Calcutta.	Inland. ·	Madras.	Bombay.	Total India.
Railway Loans			29700			29700
Special Loan	••		12200			12200
31 per cent.		58919	266687	87888	339699	1283388
3 per cent.	••	47571	12848	6417	12353	79184
		636690	321430	94300	352032	1404472

		Proportion in India held by		Held in		Total
		Indians.	Europeans.	London.	Unissued.	as above,
Railway Loans		29700				29700
Special Loan	••	12200				12200
81 per cent.	••	723574	559814	94768		1878156
3 per cent.	••	30280	48904	2957		82141
		795754	608718	97725		1502197

STERLING DEBT.

	Capital	of Debt.		Annual I	nterest able.
Debt Bearing Interest.	31st March 1913.	31st March 1914.	Rate %	31st March 1913.	31st March 1914.
India 3½ per cent. Stock India 3 per cent. Stock India 3 per cent. Stock India 2 per cent. Stock India Bonds East India Railway Debenture Stock Eastern Bengal Ry. Debenture Stock South India Ry. Debenture Stock G. I. P. Railway Debenture Stock Indian Midland Ry. Debentures Debt not bearing Interest—	91276210 66480596 11806336 3000000 1435650 348666 425000 2701450 421200	\$ 91211186 66212384 11806337 2500000 1435650 348666 425000 2701450 407500	3 1 3 2 2 1 3 2 3 2 4 4 4 4 4 4 4 3 1 4 3 1 5	3194667 1994417 295158 105000 64604 13946 19125 108058 16848	£ 3192392 1986372 295158 87500 64604 13947 19125 108058 14202
India 4 per cent. Stock	9305 7278	9305 7279 16,584			
Total Debt and Annual Interest thereon on 31st March 1914		177064757		••••	5781418

INDIAN RAILWAY ANNUITIES.

	31st March 1913.	31st March 1914.
East Indian Railway Annuity terminating in 1953 Interest in lieu of deferred annuity Eastern Bengal Railway Annuity terminating in 1957 Scindh Punjab & Delhi Railway Annuity terminating in 1958 G. I. P. Railway Annuity terminating in 1948 Madras Railway Annuity terminating in 1956	850537 262000 116850 371361 1268516 488381	\$50538 262000 116851 371361 1268516 488381
Total Indian Railway Annuties on 31st March 1914	3357645	3357647

THE INDIAN MINTS.

The Mint in Calcutta dates from the end of the 17th century. The present building, designed by Major N. W. Forbes, was opened in 1831, the central portico being held to be "a copy, on half dimensions, of the temple of Minerva at Athens." The Copper Mint, to the north-east of the Silver Mint, was opened in 1865.

Mint Master, Lt.-Col. W. G. R. Cordue, R.E. Deputy Mint Master, Capt. G. H. Willis,

M.V.O., R.E. Assay Master, Lieut-Col. J. J. Bourke, I.M.S. Deputy Assay Master, Lieut-Col. F. T. C. Hughes, I.A., F.C.S.

The Bombay Mint-The first Mint established in Bombay, in 1670, was for the coinage of Mints.

"rupees, pies and bujruks," authority for its working being granted by letters patent. The erection of the present Mint was sanctioned by the East India Company in 1823, and was designed by Major John Hawkins of the Bombay Engineers. The cost of construction was estimated at 38 lakhs.

Mint Master, Major A. L. C. McCormick, R. E. Assistant Mint Master, Mr. A. E. B. Gordon.

Assay Master, Lt.-Colonel J. Lloyd Thomas Jones, I.M.S.

Jones, I.M.S.

Deputy Assay Master, Captain H. B. Drake, LM.S.

During the year 1912-1913 gold to the value of Rs. 24,87,91,744 was tendered at the two

The Silver coinage for the year 1912-13 was as follows:-

	 	<u>-</u>		Calcutta.	Bombay.	Total.
				Value in Rs.	Value in Rs.	Value in Rs.
Rupees Half-Rupees Quarter Rupees One-Eighth Rupees	 •••	::	::	7,79,22,000 16,94,957 23,96,761 17,44,933	10,96,07;154 7,52,378 5,69,097 6,82,664	18,75,29,154 24,47,335 29,65,858 24,27,597
	TC	tal		8,37,58,651	11,16,11,293	19,53,69,944

The work in 1912-13 was not confined to the re-coinage of 1835 and 1840 rupees and uncurrent coin, but new coinage on a large scale was undertaken from silver purchased in England. The outturn of rupees was more than that of the previous year by about 164 crores.

During the year 5,672,075 British dollars of the outturn value in standard tolas of Rs. 1,28,70,459 were coined at the Bombay Mint, against 37,470,509 British dollars of the outturn value of Rs. 8,50,23,954 in the previous year. The Bombay Mint also coined 444,628 five-cent pieces for the Singapore Government. Coinage to the extent of Rs. 24,08,653 was undertaken on behalf of the Junagadh Darbar which has adopted British silver currency in place of Koris in its territories.

39,776,000 nickel one-anna pieces of the nominal value of Rs. 24,86,000 were coined at the Bombay Mint during the year as compared with 41,760,000 pieces of the nominal value of Rs. 26,10,000 in the preceding year.

The net gain on the nickel coinage which passed into circulation amounted to Rs. 22,02,778 against Rs. 24,35,338 in the preceding year.

The bronze coinage of the year consisted of pice, half-pice and pie-pieces of the aggregate value of about Rs. 19,18,461 against Rs. 9,25,625 in the previous year.

The copper coinage comprised (1) cents of the value of Rs. 76,028 executed for the Ceylon Government, and (2) of the value of Rs. 6,750 for the Straits Government,

During the year 1912-13 there was a net gain of Rs. 12,72,178 on bronze and copper coinage, against Rs. 9,02,671 in the preceding year.

The Revenue and Expenditure of the two Mints (including interest on capital outlay and other pro forma charges) amounted to Revenue, Rs. 42,93,964 and Expenditure, Rs, 28,61,157

The Gold and Silver Assays made during the year numbered.

	Cui	cuuu.	B	moay.
Year.	Gold.	Silver.	Gold.	Silver.
1912-13	423	31,313	858	38,926
The Indian	denon	inations	with th	eir British
equivalents as	re :—			

= 1/12 penny. Pie Pice (3 pies) 1 farthing. Anna (12 pies) 1 penny. Rupee (16 annas) 1s. 4d.

A lakh (lac) is 100,000 rupees and a crore is 100 lakhs.

The equivalents of the rupee in various currencies are approximately as follows:-

One rupee = 1.68 franc (France, Italy, Belgium, &c.).

= 1.36 mark (Germany). = 1.6 krone (Austria-Hungary). ,, = 0.324 dollar (United States). ,, = 0.65 yen (Japan).

The denominations of currency notes in circulation are 5, 10, 20, 50, 100, 500, 1,000, and 10,000 rupees.

HISTORY OF THE COINAGE.

The Indian mints were closed to the unrestricted coinage of silver for the public from the 26th June 1893, and Act VIII of 1893, passed on that date, repealed Sections 19 to 26 of the Indian Coinage Act of 1879, which provided for the coinage at the mints for the public of gold and silver coins of the Government of India. After 1893 no Government rupees were coined until 1897, when, under arrangements made with the Native States of Bhopal and Kashmir, the currency of those States was replaced by Gov-ernment rupees. The re-coinage of these rupees proceeded through the two years 1897

erore of rupees was coined and over 17 crores of rupees in the year ending the 31st March 1910, including the rupees issued in connection with the conversion of the currencies of Native States. From the profit accruing to Govern-ment on the coinage it was decided to constitute a separate fund called the Gold Reserve Fund as the most effective guarantee against temporary fluctuations of exchange. The whole profit was invested in sterling securities, the interest from which was added to the fund. In 1906 exchange had been practically stable for eight years, and it was decided that of the coinage profits devoted to this fund, six crores should be kept in rupees in India, instead o being invested in gold securities. The Gold Reserve Fund was then named the Gold Standard Reserve. It was ordered in 1907 that only rupees proceeded through the two years 1897 eight years, and 1898. In 1899 there was no coinage of coinage profits devoted to this fund, six crores rupees; but in the following year it seemed that ocinage was necessary, and it was begun in February 1900, the Government purchasing the silver required, and paying for it mainly with the gold accumulated in the Paper Currency Reserve. In that and the following month a

capital expenditure on railways. The Gold Standard Reserve was called into action before the year 1907-08 was out. Exchange turned against India, and in March 1908, the Government of India offered bills on the Secretary of State up to half a million sterling, while the Secretary of State sold £1,000,000 Consols in order to meet such demands. During April to August, further sterling bills were sold for a total amount of £8,059,000. On a representation by the Government of India, the Secretary of State agreed to defer the application of coinage profits to railway construction until the sterling assets of the Gold Standard Reserve amounted to £25,000,000. On the Slat March 1913, the Reserve amounted to £22,571,333.

Gold.

Since 1870 there has been no coinage of double mohurs in India and the last coinage of single mohurs was in the year 1891-92.

Act XXII of 1899, passed on the 15th September 1899, provided that gold coin (sovereign and half-sovereigns) shall be a legal tender in payment or on account at the rate of fiften rupees for one sovereign.

Silver.

The weight and fineness of the silver coins are :-

		ALLOY. grains.	TOTAL.
Rupee Haif-rupee Quarter-rupee or 4-	165 82½	15 7½	180 90
anna piece Eighth of a rupee or	411	34	45
2-anna piece	205	17	221

One rupee = 165 grains of fine silver One shilling = 80,1 grains of fine silver one rupee = shillings 2.0439.

Copper and Bronze.

Copper coinage was introduced into the Rengal Presidency by Art XVII of 1835, and into the Madras and Sombay Presidencies by Act XXII of 1844.

The weight of the copper come struck under Act XXIII of 1870 remained the same as it was in 1835. It was as follows:-

			TROY.
Double pice, or half-anna		• •	200
Pice or quarter-anna Half-pice or one-eighth of ar	anna	::	100 50
Pie, being one-third of a p		une-	,667

The weight and dimensions of bronze coins are as follows :---

			STANDARD WEIGHT IN GRAINS TROY.	DIAMETER IN MILLI- METRES.
Pice Half-pice		••	75 37‡	25·4 21·15
Pie	::	• • • • • • • • • • • • • • • • • • • •	25	17.45

Nickel.

The Act of 1906 also provides for the coinage of a nickel coin. It was directed that the nickel one-anna piece should thenceforth be coined at one-anna piece snould thenceforth be counce as the Mint and issue. The notification also pres-cribed the design of the colu, which has a waved edge with twelve scollops, the greatest diameter of the coin being 21 millimetres, and its least diameter 19-8 millimetres, The desirability of issuing a half anna nickel coin was considered by the Greatment of India in 1909, but after by the Government of India in 1909, but after consultation with Local Governments it was decided not to take action in this direction until the people had become thoroughly familiar with the present one-anna coin.

The Paper Currency.

Under Acts VI of 1839, UI of 1840, and IX of rupees note was discontinued. By another Unter Acts vi or 1638, 111 01 1630, and 1A 01 1843, the Presidency Banks of Bengal, Bombay, and Madras were authorised to Issue notes payable on demand, but the issue of the notes was practically limited to the three cities of Calcutts, Bombay, and Madras. These Acts were repealed, on the 1st March 1862, by Act XIX of 1861, providing for the issue of a paper currency through a Government Department, by means of notes of the Government of India payable to bearer on demand. Since then no banks have been allowed to issue notes in India.

Act II of 1910 amended and consolidated the law on the subject. By it, a note of the value of five, ten, or fifty rupees, as well as a note of any other denominational value which the Governor General in Council may, by notification in the Gazette of India, so specify, was declared to be a "miversal currency note," that is, legal tender throughout British India and encashable at any office of issue in British India; the then existing sub-circles of Cawnpore, Lahore, Karachi, and Calicut were abolished, and the first three of these constituted separate circles of issue in

notification issued in 1911 under section 2 of the same Act a currency note of the denominational value of one hundred rupees was declared to be a "universal currency note." Act VII of 1911 raised the invested portion of

the Currency Reserve from 12 crores to 14 crores with permission to make the additional invest-ment in sterling securities if desired.

Department of Paper Currency.

he function of this department is to issue, he function of this department is to issue, without any limits, promissory notes (called currency notes) of the Government of India payable to the bearer on demand, of the denominations of Rs. 5, 10, 50, 100, 500, 1,000, and 10,000, the issue being made in exchange for rupees or half rupees or for gold coin, which is legal tender, from any Paper Currency office or agency, and for gold bullion and gold coin, which is not legal tender, from circle offices on the requisition of the Comptroller General.

Supply and issue of Currency Notes.

Currency notes are supplied by the Secretary addition to Calcutta, Madras, Bombay, and a Rangoon. At the same time, by a notification indent from the Head Commissioner. The issued under the Act, the further issue of 20-

Currency Agents with all the notes required for the purposes of the Paper Currency Act. Every such note, other than a "universal" note, bears upon it the name of the place from which it is issued and every note is impressed with the signature of the Head Commissioner or of a Commissioner or Deputy Commissioner.

The officers in charge of the circles of issue are authorised to issue, from the office or offices established in their circles, currency notes in exchange for the amount thereof (1) in rupees or half-rupees or in gold coin which is legal tender under the Indian Coinage Act; or in rupees made under the Native Coinage Act, IX of 1876, and (2) on the requisition of the Comptroller General, to all treasuries, in gold coin which is not legal tender under the Coinage Act or gold bullion at the rate of one Government rupee for 7.53344 grains troy of fine gold. Currency notes can also be issued against gold coin of bullion or silver bullion or sterling securities held by the Secretary of State for India in Council.

Notes when legal tender.

Every note is a legal tender in its own circle (except by Government at the office of issue) for the amount expressed in that note; that is to say, whenever a note forms the integral sum or a portion, of any payment, either to Government on account of a revenue or other claim, or to any body corporate or person in British India, it is a legal tender. Five, ten, fifty and hundred rupee notes are legal tender throughout British India.

Notes of higher denominations than five, ten, fifty and hundred rupces are payable only at the office or offices of issue of the town from which they have been issued. In ordinary circumstances every Government treasury, of which there are about 250 in British India, cashes or exchanges notes if it can do so without inconvenience; and when this cannot be done conveniently for large sums, small sums can generally be exchanged for travellers.

Reserve.

The whole amount of currency notes in circulation is secured by a reserve of gold and silver coin or bullion and securities of the Government of India or of the United Kingdom. The total amount of such securities is limited to 140 millions of rupees, of which not more than 40 millions of rupees may be in sterling securities. Under the Act of 1882 the maximum limit of the securities was fixed at sixty millions of rupees; but, the issues having largely expanded, the Government of India was empowered by Act XV of 1890 to raise the limit to eighty millions. The power was utilised to raise the invested reserve to seventy milions on the 19th December 1890, and to eighty millions a year later, on the 3rd December 1891. By notification No. 5366 of the 18th December 1896, the invested reserve was raised to one hundred millions, the power to do so having been given by Act XXI of 1896. Act III of 1905 raised the limit to 120 millions and in August of that year 20 millions of the reserve were invested by the Secretary of State in Consols and exchequer bonds: In 1908-09 the exchequer bonds were replaced by Consols. By Act VII of 1911 the limit was raised further to 140 millions, and in April of that year 20 millions were invested by the position. At the close of the financial year,

Currency Chest.

Under the Gold Note Acts of 1898 and 1900. the Government of India had obtained authority to hold a part of the metallic portion of the reserve in gold coin (or temporarily in silver bullion) in London instead of in India. The object of these enactments was merely to afford temporary relief to the Indian money market in seasons of stress. A certain amount of gold had in this way been held in London during 1899 and 1900, but not to any large extent, and the occasion for doing so ceased, except in regard to gold in transit, from the middle of 1900. Act II of 1910, however, gives full power to hold the metallic portion of the reserve or any part of it, either in London or in India or partly in both places, and also in gold coin or bullion or in rupees or silver bullion, at the free discretion of Government subject only to the exception that rupees should be kept only in India and not in London. A currency cliest was accordingly opened in London and a sum of £6,000,000 was remitted from India in pursuance of this policy, and a further sum of £1,045,000 was transferred to the chest from the Secretary of State's balances during the course of 1905-06. On the 31st March 1913 the London currency chest held £6,000,000 on behalf of the Currency Reserve.

Metallic Reserve.

The metallic reserve may consist of sovereigns, half sovereigns, rupees, and half rupees, and proverigns, rupees, and half rupees, and gold and silver bullion, the last named being valued at the sum spent on the purchase of such bullion. No gold was contained in the reserve between March 1876 and Parkeyer 1898 and the questite increase. February 1898, and the quantity increased very slowly until February 1899, but from that date it rose rapidly till the end of March 1900 when it amounted to £7.500,012. Government then took measures to reduce what was considered to be an inconveniently large gold reserve, and at the end of March 1901 the value of the gold reserve had fallen to £5,778,518. In the next three years it again increased continuously from £7,023,921 at the end of 1901-02 to £9,859,564 at the end of 1902-03 and £10,789.567 at the end of 1903-04. During the next three years it remained practically steady, the amount held on the 31st March 1907 being £10,688,841. In 1907-08 the serious monetary crisis in America and the contraction in the exports from India owing to the famine led to a very large increase in the demand for gold at the Currency offices with the result that on the 31st March 1908 the value of the gold reserve had fallen to £6,417,841 inclusive of £3,705,000 held in England. Adverse trade conditions continued in 1908-09 and on the 31st March 1909 the gold reserve had dwindled down to \$1,523,414, of which £1,500,000 was held in England. Normal conditions returned in 1909-10 and the stock of gold in the reserve rose to £8,701,718 on 31st March 1910. On the 31st March 1913 the stock in the reserve amounted to £25.500,000.

·		
that is to say March 31st 1s of the reserve, was as follows	914, the	actual state
of the reserve, was as fond	, wa	31st March
		1914.
		Rs.
TOTAL CIRCULATION		66,11,75,935
Silver Coin in India		20,53,47,916
Gold Coin and Buillion	in	
India	• •	22,43,53,073
Gold Coin and Bullion	in	
England	••	9,15,00,000
Securities held in India	••	9,99,99,946
Securities held in England		4,00,00,000
TOTAL RESERVE		66,12,00,935
On the eve of the war, a stood at the following figure	July 31st	t, the Reserve
stude at the londwing ng		31st July
		1914.
		Rs.
TOTAL CIRCULATION		75 44,53,000
Silver Coin in India		33,94,01,201
Gold Coin and Bullion	in	
India		18,36,01,853
Gold Coin and Bullion	in	
England	• •	9,15,00,000
Securities held in India	••	9,99,99,946
Securities held in England	••	4,00,00,000
TOTAL RESERVE		75,44,53,000
It was the policy of the	Governn	nent of India
to give gold from the Pap	er Curr	ency Reserve

freely on demand. But when the war broke out, it became apparent that gold was being withdrawn from the Reserve not to meet legitimate demands, but to speculate: sovereigns were at a premium in the bazaar, and those who commanded funds took sovereigns from the Paper Currency Reserve and sold them at a Paper Chrrency Acserve and some income approfit. Government, accordingly declined to issue sovereigns in sums smaller than ten thousand pounds at a time, but as the speculators then clubbed together and formed syndicates to withdraw sovereigns, an absolute embargo was placed on the issue of gold. The effect of these withdrawals, of the abolition of the Silver Branch of the Gold Standard Reserve, and of the transfer of gold from the Paper Currency Reserve to the Gold Standard Reserve in payment of Reverse Councils is seen in the last official

statement	showing	the	composition	of	th
Paper Cur	rency Re	serve	;		

	"	II TAO ACTROCE
		1914.
		Rs.
TOTAL CIRCULATION		60,79,91,870
Silver Coin in India		31,93,97,948
Gold Coin and Bullion in India		7,20,93,976
Gold Coin and Bullion in	•	
England		7,65,00,000
Securities held in India		9,99,99,946
Securities held in England		4,00,00,000
TOTAL RESERVE		60,79,91,870
TOTAL TRESERVED	• •	

Interest.
The interest accruing on the invested reserve is entered in a separate account, and paid to the credit of the Government of India, under the head "Profits of note circulation." The interest on the one hundred and forty millions of rupees in the invested reserve amounted in 1911-12 to Rs. 44,90,450 made up of Rs. 34,70,420 in India and Rs. 10,20,030 in England, the expenditure of the Department being about Rs. 18,57,190 on the average for the last five years.

Circulation. The average monthly circulation of the notes

has been in millions of rupees:— Five years ending 1885–86 142	65
Five years ending 1005-00 132	
1890-91 171	
" " 1895–96 282	•44
" " " 1900–01 265	•39
" " 1005_08 361	.80
" " " 1910–11 481	
	65

The circulation of the different denomina-tions of notes on the 31st March 1893 and 1912 was as follows :-

	1893.	1912.
	Rs.	Rs.
5-rupee	24,77,280	1,29,99,385
10 -	3,91,73,360	15,09,07,400
90 "	66,01,660	13,12,660
		1,89,62,750
50 ,,	1,16,24,100	16,52,20,900
100 ,,	5,68,06,800	2,80,51,000
500 ,,	2,53,24,000	2,80,31,000
1,000 ,,	6,79,81,000	9,29,71,000
10,000 ,,	5,40,30,000	14,32,00,000
According to the	latest officia	l estimate the
circulating medium	is as follows :-	-
Rupees	••	£120,000,000
Sovereigns	••	£ 40,000,000
Currency Notes		£ 40,000,000

The Gold Reserve Fund.

the demand for rupees for trade requirements the demand for rupees for trade requirements necessitated further heavy coinage and the investments held in the Gold Reserve Fund rapidly swelled by the credit of the profits and the interest thereon and amounted at the close of 1905-08 to £12\frac{1}{2}\$ millions. During the latter half of this year, abnormal trade activity resulted in an upprecedented demand for silver currency and necessitated expendion. for silver currency and necessitated exception- India during the first half of 1908-09 of sterling ally heavy coinage in a short space of time. bills on London resulted in the withdrawal

The Gold Reserve Fund was first started in the beginning of 1901 when the profits which had accrued from the coinage of rupees from April 1900 amounting to £3 millions were credited to the fund, gradually remitted to England from time to time and there invested after the coinage securities. In the following years the doment for the contract of the Gold Reserve Fund was formed and so the contract of the contract the Gold Standard Reserve. At the close of 1906-07, the Reserve contained nearly £17 millions, of which £12 millions were held in securities, £4 millions in rupees in India and the rest in gold in India and as a book credit. It is not necessary in this report to recount the events of the latter half of 1907-08. It will be sufficient to mention that the sale in India during the first half of 1908-09 of sterling

from circulation in India of some Rs. 12 crores, the equivalent being withdrawn in gold by the Secretary of State from the Reserve in London, securities to the value of over £8 millions being put on the market. By November 1908, the silver in the Reserve in India had reached 18·65 crores. The subsequent improvement in trade conditions necessitated a portion of this silver being transferred to the Paper Currency Department to meet notes and frequent similar transfers continued to be made, the account being adjusted by a transfer in the opposite direction in London, made in gold from the Currency Reserve held there to the Gold Standard Reserve. By March 1911, the silver branch in India contained only, 2°90 crores and the balance remained at this figure till September 1912, when the resumption of coinage made it possible gradually to increase it up to Rs. 6 crores, of which 4\perp were held in Bombay.

Effects of the War.—The recommendations of the Currency Commission regarding the policy to be pursued towards the Gold Standard Reserve will be found explained in detail in the section Currency Commission (q. v.). Briefly, they were that the silver branch of the Reserve should be abolished, and the rupees in the Reserve transferred to the Paper Currency Reserve in exchange for an equivalent in gold; that a much larger gold holding, in liquid gold, should be aimed at; and that the Secretary of State should be prepared to sell sterling bills and telegraphic transfers on London, or Reverse Councils as they are sometimes called, on demand. Unfortunately the war broke out before there was time for this policy to be carried into effect, so the emergency found the Reserve in a transition stage. The measures adopted were prompt and efficacious. The silver branch of the Reserve was abolished by transferring the rupees therein to the Paper Currency Reserve in exchange for an equivalent in sovereins, so that the Reserve was composed entirely of gold and gold securities. After a brief interval, necessary to consult the Secretary of State, who naturally had to

colour his arrangements by the abnormal financial conditions prevailing in London, a notification was issued early in August to the effect that Government would be prepared to sell sterling bills and telegraphic transfers on London to the extent of a million sterling a week, at the following rates:—Bills 1-3-29 32d and telegraphic transfers 1-3-27 32 d. This at once steadied the exchanges, which whilst they have been sluggish, have not fallen below gold point. The appended tables will show the composition of the Gold Standard Reserve brought about by this policy, and the extent of the demand for sterling bills:—

Strength of the Reserve.—The balance of the Gold Standard Reserve on the 31st October 1914, in India and in England, amounted to £25,836,753 and was held in the following form:—

form :—	_
(1) Gold in India	6,233,000
(2) Gold set aside in the Bank of England	2,300,000
(3) Cash held with cash balance at the Bank of England	
(4) British and Colonial Govern- ment Securities and Cor- poration of London Bonds (Market price on 31st March)	, ,
(5) British and Colonial Gov- ernment Securities and Birmingham Corporation Bills since purchased (cost price)	
(6) Book credit in Treasury Accounts—India	25,110
(7) Temporary loan to Treasury balances—India	3,000,000
•	£ 25,836,753

Sterling Bills.—The following table shows the details of the weekly allotments since the reverse remittances were first offered:—

Date.				Offered.	Tendered.	Allotted.	
					£	£	£
August 6			• •		1,000,000	1,091,000	1,000,000
August 13	• •			٠.١	1,000,000	813,000	813,000
August 20				l	1,000,000	632,000	632,000
August 27					1,000,000	538,000	538,000
September 3					1,000,000	474,000	474,000
September 10			••		1,000,000	360,000	360,000
September 17					1,000,000	335,000	335,000
September 24					1,000,000	346,000	346,000
October 1					1,000,000	355,000	355,000
October 8	•••	••			1.000,000	345,000	345,000
October 15	• • •	••			1,000,000	601,000	001,000
October 22	•••				1,000,000	427,000	427,000
October 29	•••	• •		::r	1,000,000	177,000	177,000
November 5					1.000,000		
November 12		•••			1,000,000	94,000	94,000
Vovember 19				::)	1,000,000	390,000	390,000
November 26			::		1,000,000	560,000	560,000

Gross Revenue in India and England ; in £ (15 Rupees=£1).									
HEADS OF REVENUE.	1904-5.	1905-6.	1906-7.	19078.	1908-9.	1909-10.	1910-11.	1911–12.	
PRINCIPAL HEADS OF REVENUE: Land Revenue Opium	6.021,499	5,468,780	£ 19,793,791 5,660,528	£ 18,719,322 5,244,986 3,338,988	£ 19,759,060 5,884,788	5,534,683	£ 20,877,521 7,521,962	£ 20,764,697 5,961,278	
Salt Stamps Excise Provincial Rates	5,354,768 3,738,362 5,353,425 1.036,653	3,926,364 5,687,820 953,664	4,029,908 5,898,219 516,671	4,259,649 6,227,010 525,829	4,344,156 6,389,628 533,595	6,537,854 539,223	3,175,950 4,811,691 7,030,314 554,378	4,815,129 7,609,753 548,680	
Customs Assessed Taxes Forest Registration	1,269,225 1,601,997 338,690	1,779,566 361,959	1,768,911 379,786	1,504,113 1,732,610 415,311	1,553,419 1,700,894 430,936	4,965,118 1,558,964 1,735,386 430,377 588,307	6,619,009 1,593,301 1,829,557 425,855 607,447	6,468,567 1,652,878 1,952,179 445,869 595,008	
Tributes from Native States	48,637,317	597,430 47,657,389	48,786,935				ļi	54,205,240	
INTEREST	839,322	934,181	972,193	965,757	987,325	1,184,343	1,465,439	1,448,74	
Post Office	1,574,241	1,650,724	1,751,146	1,823,999	1,825,620	1,927,229	1,996,922	2,134,27	
Telegraph	897,923	909,854	953,006	1,006,797	978,097	902,851	997,159	1,087,42	
MINT	206,410	321,183	419,498	443,918	102,654	125,953	196,110	367,100	
RECEIPTS BY CIVIL DEPARTMENTS: Law and Justice:	251,938	275,538	. 271,423	264,087	280,117	293,339	310,663	323,660	
Courts of Law Jalie Police Police Paducation	245,405 173,992 142,163 122,818 57,581	253,229 169,872 145,496 136,436 69,316	251,718 150,310 143,962 140,988 55,646	254,403 153,651 138,870 145,285 52,469	246,234 158,123 139,988 158,430 56,549	230,155 148,950 140,083 165,875 58,235	237,791 155,873 146,531 183,636 63,697	253,354 122,738 151,737 205,610 66,847	
Medical Scientific and other Minor Departments	86,608	84,323	86,782	89,154	106,536	109,438	113,432	114,185	
TOTAL	1,080,505	1,134,210	1,100,829	1,097,919	1,145,977	1,146,075	1,211,123	1,238,131	
IISOELLANEOUS RECEIPTS: Receipts in aid of Superannuation, &c	191,885 71,782 94,065 272,527	196,421 73,715 82,870 334,487	191,887 78,745 190,022 478,947	221,636 91,472 94,511 304,012	195,011 95,568 285,126	192,086 95,324 44,481 373,997	195,489 97,656 70,084 314,662	201,470 96,891 105,697 409,018	
Total	630,259	687,493	939,601	711,631	575,705	705,888	677,891	813,076	

GROSS REVENUE	in India an	D ENGLANI	; IN £ (15	Rupees=£	l)—(contd).			
HEADS OF REVENUE.	1904-5.	1905-6.	1906-7.	1907-8.	1908-9.	190910.	1910–11.	1911–12.
	£	£	£	£	£	£		£
RAILWAYS: State Railways (Gross Receipts)	22,863,855	23,589,579	25,781,078	27,296,944	26,799,888	28,923,931	80,629,756	33,579,129
Deduct— Working Expenses and Surplus Profits paid to Companies.	11,276,013	11,647,231	13,252,245	15,078,834	16,913,089	16,536,801	16,787,641	17,745,049
Net Receipts Guaranteed Companies (Net Traffic Receipts) Subsidized Companies (Government share of Surplus Profits and Repayment of Advances of Interest).	11,587,842 1,074,814 47,814	921,975	398,801	12,218,110 228,615 52,606	-961	48		15,834,080 57,645
TOTAL	12,709,970	12,906,951	12,983,823	12,499,331	9,958,041	12,445,378	13,881,461	15,891,725
IRRIGATION: Major Works: Direct Receipts Portion of Land Revenue due to Irrigation	1,994,331 893,250	1,869,156 968,779	2,342,231 1,006,981	2,208,014 1,040,533	2,247,624 1,091,044	2,307,077 1,117,388	2,288,051 1,178,005	2,381,533 1,351,465
Minor Works and Navigation	179,100	164,673	183,705	282,045	219,334	235,691	228,465	247,054
Total	3,066,681	3,002,608	3,532,917	3,480,592	3,558,002	3,660,156	3,694,521	3,980,052
OTHER CIVIL PUBLIC WORKS	254,481	254,504	287,863	249,066	287,938	268,786	293,833	326,924
RECRIPTS BY MILITARY DEPARTMENT: Army: Effective	844,384 116,541 6	1,058,373 131,028 295	122,055	908,549 113,930			948,154 110,495	
Merine	960,931 203,791 45,462	1,189,696 143,770 49,306	148,175	1,022,479 87,686 57,268	862,939 125,448 59,254	83,460	91,787	84,900
TOTAL	1,210,184	1,382,772	1,416,743	1,167,433	1,047,641	1,136,961	1,221,029	1,343,057
TOTAL REVENUE	71,107,293	70,841,869	73,144,554	71,003,275	69,761,535	74,598,495	80,682,473	82,835,750

The Currency Commission.

The Royal Commission on Indian Currency or supplementary to, the recommendations and Finance was appointed in April 1913, in of the Currency Committee of 1898, more order to inquire into certain questions arising particularly with regard to the location, disout of the management of the Indian currency position, and employment of the Gold Stansystem and the control of Indian finance. For system and the control of Indian finance. For some years, and particularly since the American the existing practice in these matters is concrisis of 1907, when the Indian currency system ducive to the interests of India; also to report was severely tried, much criticism had been levelled against the manner in which the principles laid down by the Fowler Committee of 1898 had been developed, and against the extent to which Indian funds and reserves had been drawn to London. These criticisms were brought to a head when strong complaint was made in Parliament of the agency through which large purchases of silver were made for the Government of India in 1912.

It was to settle these issues that the Commission was appointed, and it took evidence throughout the latter part of the year 1913.

throughout the latter part of the year 1918.

The Royal warrant appointing the Commission named Mr. Austen Chambedain, M.P., as Chairman, and the following members: Lord Faber, Lord Kilbracken, Sir Robert Chalmers, Sir Ernest Cable, Sir Shapurji Broacha, Sir James Begbie, Mr. R. W. Gillan, C.S.I., Mr. H. N. Gladstone, and Mr. John Maynard Keynes. The personnel of the Commission commanded a wide measure of confidence. Mr. Austen Chamberlain's long connection with the Treasury made him an excelnection with the Treasury made him an excel-lert Chairman. Lord Faber was well-known as the organiser of the Country Bankers' Association; Lord Kilbracken was long connected with the India Office as Sir Arthur Godley; with the india Office as Sir Arthur Godley's Sir Henry Chalmers, in addition to his long experience at the Treasury, was Secretary to the Fowler Committee (he was appointed Governor of Ceylon and left England during the recess); Sir Ernest Cable is one of the best known business men of Calcutta; hapurji Broacha is the foremost Shapurji Sir Shapurji Broacha is the foremost, Indian broker of Bombay; Sir James Begble, a Presidency Bankor and economist of great experience, is the senior Presidency Banker in India; Mr. Gillan, atter filling the office of Comptroller-General and head Commissioner of Paper Currency in India with distinction, holds the post of Financial Secretary to the Government of India; Mr. Gladstone is partner in an important Calcutta firm and adds to bis Indian experience threewoods. and adds to his Indian experience a knowledge of business conditions in London; and Mr. Keynes is a well-known writer on economics heynes is a well-known writer on economics who has devoted a considerable amount of attention to the Indian currency system. But apart from the actual personnel of the Commission, it was recognized that the Government, in appointing to the Commission none who were strongly identified with the system under criticism, had given conspicuous evidence of their desire to investigate impartially the whole question.

Terms of Reference.

as to the suitability of the financial organi-sation and procedure of the India Office, and to make recommendations. To understand the trend of the inquiry, it is necessary to hark back a little. The currency system of India until 1893 was based on the free coinage of silver. Anyone tendering silver bullion at the Indian mints was entitled to receive an equivalent quantity of silver rupees, whose par value was two shillings. But the discovery and development of the silver mines in America and elsewhere so vastly increased the quantity and elsewhere so vastly increased the quantity of silver produced that its value measured in gold rapidly declined. At one time the gold value of the rupee fell as low as a fraction over a shilling. This caused great embarrassment to the Government of India, which has every year to meet in gold in England large sums included generally under the name of the Home Charges. These include interest on the starting dethy negricing and furlough allowances. sterling debt, pensions and furlough allowances payable in England, and stores. They amount roughly to eighteen million pounds sterling a year. The depreciation in the sterling value of the rupee necessitated the devotion of a larger and larger number of rupees to this purpose, until the alternatives were either the imposition of additional taxation to a point which would be politically dangerous, or the adoption of some measures to raise the exchange value of the rupes. Between 1878 and 1892, when these difficulties were most acute, the main object of the Government of India was to facilitate an international agreement which might cause a rise in the gold price of silver, and thus diminish the inconvenience arising from the retention of a silver standard for India. But when the prospects of an international agreement receded it was then decided to take independent action. Acting on the recommendations of a Committee which was appointed in 1892 and reported in 1893, company of the recommendation in 1892 and reported in 1893, company of the recommendations of the recommendations of the recommendations of the recommendation in 1892 and reported in 1893, company of the recommendation in 1892 and reported in 1893, company of the recommendation in 1892 and reported in 1893, company of the recommendation in 1892 and reported in 1893, company of the recommendation in 1892 and reported in 1893, company of the recommendation in 1892 and reported in 1893, company of the recommendation in 1892 and reported in 1893, company of the recommendation in 1892 and reported in 1893, company of the recommendation in 1892 and reported in 1893, company of the recommendation in 1892 and reported in 1893, company of the recommendation in 1892 and reported in 1893, company of the recommendation in 1892 and reported in 1893, company of the recommendation in 1892 and reported in 1893, company of the recommendation in 1892 and reported in 1893, company of the recommendation in 1893 and reported in 1893. appointed in 1892 and reported in 1893, commonly called after its President, the Herschell Committee, the Government decided to close the Indian Mints to the free coinage of silver and to announce that although closed to the public, the mints would issue rupees to the public in exchange for gold at the ratio of fifteen to one, equivalent to one shilling and four pence the rupee.

The Indian System

The Indian System.

The effect of this policy was steadily to raise the exchange value of the rupee, until in 1898 it bed exchange value of the rupee, until in 1898 it had approximately reached the ratio to gold of fifteen to one. The next point was to determine what further steps should be taken to give full effect to the principles laid down by the Herschell Committee and accepted by the the Committee and accepted by The specific points referred to the Commister and accepted by slon were to inquire into the location and management of the general balances of the Government of India, the sale in London of Stephen and transfers, the measures taken by the Indian Government and the Secretary of State for India in Council to maintain the general expectation it was practically unaexchange value of the rupee in pursuance of, nimous. It recommended that a gold standard

should be established, and the ratio between and all attempts to have these funds placed the rupee and the sovereign was to be fifteen to one. The mints were to be opened for the coinage of gold, but to remain closed to the public for the coinage of silver. Government alone were to have the right to coin silver, subject to directions laid down, and the profits accumulated from this coinage were to be accumulated to form a special reserve in gold. It is of the greatest importance to remember that the Fowler Committee recommended that there should be the normal accompaniment of a gold standard-a gold currency and a gold mint, and emphatically put aside the suggestion that there should be a gold standard without a gold currency—a system which has since obtained some measure of academic support under the name of the gold exchange standard. The chief criticisms of the policy actually pursued centre round the broad issue that whilst accepting the Fowler Committee's recommendations in principle the Government of India, or rather the Secretary of State acting on the advice of a Finance Committee on which the Indian element was reduced until it disappeared, departed from them in practice. With this introduction, we can consider the criticisms levelled at the practices specifically referred to the Chamberlain Committee.

Cash Balances.

The cash balances of the Government of India are held in part in India and in part in London. This arises from the necessity of meeting obligations in both countries. For-merly the Secretary of State managed his disbursements with a balance of between four and five millions sterling. But from 1907 onwards this policy was reversed and enormous balances were heaped up in London.

The growth of these balances is illustrated by the following figures;-

			£
1907			4,607,266
1908	• •		7,983,898
1909	••	• •	12,799,090
1910	• •	••	16,697,245
1911	• •	• •	15,292,638
1912			18.390.013

It was contended that these balances should have been retained in India, and there used either for the reduction of taxation or for expenditure on ameliorative works like educa-tion, savitation and medical relief. The official explanation was that these balances were drawn to London to meet the convenience of trade, which had grown used to the con-venience afforded by the sale of Council Bills far in excess of the Secretary of State's budget-ted demands. Arising out of this question was a subsidiary one. It was remarked that the whole of the Secretary of State's cash balances were lent in London at low rates of interest. In part these went to "approved" borrowers, on security, and when these were glutted, to the London joint stock banks—including those banks represented or the Finance Committee of the India Office Council-without security. On the other hand the surplus balances of the Government of India in India were withdrawn from the money market and locked up in the Reserve Treasuries, with the effect of making of a system never contemplated by the Fowler money artificially dear every busy season, to committee, namely, an enormous token curthe great disadvantage of the internal trade; rency with a small gold circulation.

at the disposal of the market had met with a practical non possumus.

Council Bills.

Arising out of this question of the balances in London was the subsidiary one of the rates at which the Secretary of State sold Bills and Telegraphic Transfers on India. The Secretary of State has to meet his Home Charges in London. To do this he sells what are called Council Bills every week. These Bills are offered for tender at the Bank of England every Wednesday morning and successful ten-derers are given Bills on Bombay, Calcutta and Madras, which are cashed at the Treasuries. Inasmuch as a fortnight is lost by the time in transit, it is worth paying extra to obtain what are called Telegraphic Transfers, by means of which rupees can be obtained from the Transmission of the control of the c Treasuries in India almost immediately after Treasuries in India almost immediately after the payment of gold into the account of the Secretary of State in London. Telegraphic Transfers usually sell at a rate of one thirty-second above the rate for Bills. In addition to the weekly allotment the India Office sell bills callet "specials" between the weekly allotments, at one thirty-second above the auction rate. The criticism directed against this practice was to the effect that on occursor. auction rate. The criticism directed against this practice was to the effect that on occasion lower rates were accepted than might have been obtained, and that Bills against the Gold Standard and Paper Currency Reserves were sold below gold export point, thereby diverting the natural flow of gold to India.

Exchange Value of the Rupee.

The buttress of the gold standard under the system recommended by the Fowler Committee was to have been twofold—a gold currency, and a special reserve, built up out of the profits on coining. It was made the ground of the profits of the profits of the ground the ground of the profits of the ground of the grou of criticism that having decided to adopt these principles, the India Office did practically principles, the India Omce the practicity nothing to establish an effective gold circulation. After one abortive attempt, the policy of accustoming the people to a gold circulation was abandoned. On the other hand, the coining of rupees was prodigiously heavy. During the years 1905-07 ±42 millions' worth of rupees were added to the token currency, which is will be be to been currency. which is said to be the heaviest coinage in the history of the world. The result was that instead of endowing India with a gold currency and a subsidiary token coinage, the vast bulk of the metallic circulation was in rupees. The standard was gold, but the circulating medium was silver. According to the latest returns the currency of India is made up of sixty crores of gold, sixty crores of notes, and one hundred and eighty crores of rupees. A certain amount of gold has flowed into the country and had passed into the circulation in the form of sovereigns, but it was contended that the prodigious coining of token rupees, the lack of any definite policy to popularise the sovereign, and the failure to open the Indian mints to the coinage of a gold piece of more convenient value than the fifteen rupees sovereign, had resulted in the establishment

Gold Standard Reserve.

Falling an effective gold circulation, the fund formed from the profits on coining, called the Gold Standard Reserve, became the only effective buttress of exchange. It was com-plained that whereas the principles laid down for the management of this fund were clear and definite, they had been systematically departed from in practice. For instance, it is now admitted that the Fowler Committee meant that this fund should be held in gold meant that this fund should be held in gold in India. Contrary to the express desire of the Government of India, the Secretary of State decided that it should be held in securities in London. Then in 1906, in order to meet an embarrassing demand for rupees at the height of the busy season in India, it was decided to hold £4 millions of the Reserve in silver in India. In 1907, pressed to find money for railway construction in India, the India Council decided to devote half the profits on columns to cantial extenditure on railways. on colning to capital expenditure on railways. These changes were made without consulting the great commercial interests affected, and so far as the diversion of a moiety of the profits on coining were concerned, in direct opposition to the policy of the Government of India.

The critics maintained that their position was made good by the results of the crisis in America in 1907. The sudden cessation of the demand for Indian produce caused by the financial collapse in the United States, com-bined with a partial famine in India and the heavy arrival of imports in response to long-dated contracts, reversed the tide of exchange for the first time since the gold standard was established. There was a demand for gold in London rather than for rupees in India. The Gold Standard Reserve, which should the stood of the s and £14 million in securities. There is no doubt that the weakness of the position thus revealed paralysed the action of the Government when the emergency arose. Council Bills were unsaleable. Gold was released only in driblets of £10,000 at a time, and exchange, which was to have been maintained at one and four poses. Lall to enabline allowed the and the second s which was to have beer maintained at one and four pence, fell to one-three eleven-sixteenths. Later, the India Office had to agree to sell sterling bills on London at gold export point, and £ 8 millions were taken in this way before the demand was stayed. Various other excellents had to be adouted in order to weether pedients had to be adopted in order to weather the storm, and it has been calculated that the deterioration in the Secretary of State's position in the year of the crisis was not far short of £ 25 millions. This experience has been cited as illustrative of the necessity of strengthening the gold reserves of India without any

tate the purchase of silver for coining. On the other hand critics pointed out that inasmuch as the Paper Currency was only redeemable in India, the proper place for the Paper Currency Reserve was in India and not in London. Further, that although the fund was specially removed to London for the purchase of silver, silver had since been purchased from the cash balances.

Financial Organisation of the India Office.

The financial business of the India Office is managed by the Finance Committee. This Committee exercises very wide powers. In practice, it is said, the powers of the India Office are mainly exercised by the different committees into which it is divided. The collective authority and influence of the Council are weak, and the Secretary of State and the Committees are supreme. Whilst this generally applies to the work of the India Office, it applies with particular force to the work of the Edward Committee. Figure 16 a tapplies the Finance Committee. Finance is a technical Subject, with which few of the members of the Council are competent to deal. Moreover, much of the work must be done from day to day, and cannot wait for the weekly meeting of the Council. It was made a matter of complaint that the constitution of this Committee, which, to use the words of an ex-Viceroy, Lord Curzon, exercises wide powers, and acts, not only as financial arbiter, but almost financial autocrat, had undergone a marked change. Whilst formerly there used to be upon it some member who had served the Government of India in the Finance Department, and on occasion a member who had been in the employ of one of the Presidency Banks. this Indian element had been gradually reduced to vanishing point, until the Finance Com-mittee of the India Office Council consisted of two London joint stock bankers and one member of the Home Civil Service, none of whom had any experience of Indian condi-tions. It was argued that the Finance De-partment of the Government of India should always be represented on this Committee, by a retired officer, and if practicable, the Presidency Banks and Indian Commerce and in-dustry.

The Evidence.

The Commission commenced its sittings on May 27th, and rose for the recess on August on May 2/th, and rose for the recess on Augusta 6th. It then issued what has been called an interim report, but which never pretended to be anything of the sort, and was confined to a reprint of the evidence given up to that point, without comment of any description. This blue book contained the important correspondence which the contained the contai cited as illustrative of the necessity of strengthening the gold reserves of India without any further tampering with the Gold Standard Reserve, of allowing that Reserve to grow without limit, and of keeping a substantial portion, if not the whole, in actual gold:

Apart from the withdrawal of the Gold Standard Reserve to London and its investment there, under an Act of 1905 a sum of £ 6 million of gold in the Paper Currency Reserve was of £, Assistant Under Secretary of State for withdrawn from the Indian treasuries and deposited in the Bank of England under the target and the India Office of the Golds of the India Office, which is the India Office of the Golds of the India Office, which is the India Office of the India Office, which is the India Office of the India Office of the India Office, which is the India Office of India Office of the India Office of India Office of India Office of the India Office of of State in Council. Then followed many miscellaneous witnesses, whose names and qualifications are given below:

Sir Daniel Mackinnon Hamilton, nominated by the Bergal Chamber of Commerce. Indian landowner.

Mr. J. A. Toomey, Manager of the National Bank of India, Limited.

Mr. T. Fraser, Manager of the Chartered Bank of India, Australia and China. Nominated as their representatives by the Exchange Banks doing business in India.

Mr. O. T. Barrow, c.s.i., formerly Comptroller and Auditor General in India (1903-1910), retired. Witness on behalf of the Government of India.

Mr. Alfred Clayton Cole, Governor of the Bank of England, 1911-1918.

Mr. Harry Marshall Ross, retired Calcutta Export Merchant, late Honorary Secretary, Central Committee, Indian Currency Association. Nominated by the Bengal Chamber of Commerce.

Sir Alexander McRobert, Indian Woollen Manufacturer, a former President of the Upper India Chamber of Commerce, and a former Member of the Legislative Council of the United Provinces, Nominated by the United Provinces Government.

vinces Government. With Mitra, C.I.E., Assistant Scretary to the Government of India in the Finance Department. Witness on behalf of the Government of India.

Mr. James N. Graham, nominated by the

Bombay Chamber of Commerce.

The Hon. Montagu de P. Webb, C.I.E., Chairman of the Karachi Chamber of Commerce.

Mr. William Bernard Hunter, Secretary and Treasurer of the Bank of Madras, and Chairman of the Madras Chamber of Com-

Mr. Charles Campbell McLeod, nominated by the Bengal Chamber of Commerce and the East India Section of the London Chamber of Commerce.

Mr. Marshall F. Reid, C.I.E., Merchant, Member of the Legislative Council, Bombay.

Mr. Le Marchant, a former Member of the Indian Council and a former Chairman of its Finance Committee. A Member of the Indian Currency Committee of 1898.

Mr. L. G. Dunbar, Secretary and Treasurer of the Bank of Bengal.

Mr. H. F. Howard, C.I.E., I.C.S., Collector of Customs, Calcutta. Witness on behalf of the Government of India.

Mr. Thomas Smith, nominated by the Government of the United Provinces for his know-ledge of the Currency and Banking problems of North India.

Mr. M. R. Sundars Iyer, Secretary to the Economic Association, Madras. Noninated by the Madras Government.

Final Meetings.

The Committee re-assembled on October 23rd and sat until November 14th, During this period it heard the following witnesses:—

Sir James Meston, K.c.S.I., Licutenant Governor of the United Provinces and formerly Secretary to Government in the Financial Department.

Mr. Morton Frewen.

Mr. Vidya Sagar Pandya, Secretary of the Indian Bank Ld., Madras, Nominated by the Madras Government.

Mr. Stanley Reed, IL.D., Editor of 'The Times of India," Bombay.

Mr. F. C. Harrison, C.S.I., Indian Civil Service (retired), who has held various posts in the Finnance Department.

Mr. Laurence Currie, Member of the Indian Council and its Finance Committee.

Lord Incheape, a former member of the Indian Council and a former Chairman of its Finance Committee.

Sir Felix Schuster, Bart, Member of the Indian Council and Chairman of its Finance Committee.

Mr. Dadiba Mcrwanjee Dalal, Senior Partner Messrs. Merwanjee and Sons, Stock, Bullion. Exchange and Finance Brokers, Rombay. Nominated by the Bombay Government.

Sir Guy D. A. Fleetwood Wilson, G.C.I.E., K.O.B., K.O.M.G., late Finance Member of the Viceroy's Council.

Mr. Lionel Abrahams, C.B., Assistant Under Secretary of State for India.

Sir T. W. Holderness, K.C.S.I., Under Secretary of State for India.

THE REPORT.

The report was dated February 24th, 1914, some delay occurring through the necessity of referring it to Sir Henry Chalmers, who had taken up his post as Governor of Ceylon, and Sir Shapurij Broacha, who had been obliged to return to Bombay on account of the severe financial crisisis consequent on the failure of certain of the swadeshi banks. The report was long and detailed, so the Commission furnished a summary of it, which condensed their opinions and recommendations in the following passages:—

- The establishment of the exchange value of the rupee on a stable basis has been and is of the first importance to India.
- The measures adopted for the maintenance of the exchange value of the rupee have been necessarily and rightly rather sup-

- plementary to, than in all respects directly in pursuance of, the recommendations of the Committee of 1898.
- These measures worked well in the crisis of 1907-08, the only occasion upon which they have been severely tested hitherto.
- 4. The time has now arrived for a reconsideration of the ultimate goal of the Indian Currency system. The belief of the Committee of 1898 was that a Gold Currency in active circulation is an essential condition of the maintenance of the Gold Standard in India, but the history of the last 15 years shows that the Gold Standard has been firmly secured without this condition.

- It would not be to India's advantage to encourage an increased use of gold in the internal circulation.
- The people of India neither desire nor need any considerable amount of gold for circulation as currency, and the currency most genereally suitable for the internal needs of India consists of rupees and notes.
- 7. A mint for the coinage of gold is not needed for purposes of currency or exchange, but if Indian sentiment genuinely demands it and the Government of India are prepared to incur the expense, there is no objection in principle to its establishment either from the Indian or from the Imperial standpoint: provided that the coin minted is the sovereign (or the half-sovereign); and it is pre-eminently a question in which Indian sentiment should prevail.
- If a mint for the coinage of gold is not established, refined gold should be received at the Bombay Mint in exchange for currency.
- The Government should continue to aim at giving the people the form of currency which they demand, whether rupees, notes or gold, but the use of notes should be encouraged.
- The eassential point is that this internal currency should be supported for exchange purposes by a thoroughly adequate reserve of gold and sterling.
- No limit can at present be fixed to the amount up to which the Gold Standard Reserve should be accumulated.
- 12. The profits on coinage of rupees should for the present continue to be credited exclusively to the Reserve.
- 13. A much larger proportion of the Reserve should be held in actual gold. By an exchange of assets between this Reserve and the Paper Currency Reserve, a total of about £10,000,000 in gold can be at once secured. This total should be raised as opportunity offers to £15,000,000 and thereafter the authorities should aim at keeping one-half of the total Reserve in setual gold.
- 14. The Indian branch of the Gold Standard Reserve in which rupees are now held should be abolished, the rupees being handed over to the Paper Currency Reserve in exchange for gold.
- The proper place for the location of the whole of the Gold Standard Reserve is London.
- 16. The Government should definitely undertake to sell bills in India on London at the rate of 1s. 3 29-32d. per rupee whenever called upon to do so.
- 17. The Paper Currency system of India should be made more elastic. The fiduciary portion of the note issue should be increased at once from 14 crores to 20 crores, and thereafter fixed at a maximum of the amount of notes held by Government in the Reserve Treasuries plus onethird of the net circulation, and the Government should take power to make

- temporary investments or loans from the fiduciary portion within this maximum in India and in London, as an alternative to investment in permanent securities.
- 18. We recommend the immediate universalisation of the 500 rupes note and the increase of the facilities for the encashment of notes.
- 19. The agregate balances in India and London in recent years have been unusually large. This has been due mainly, though not entirely, to accidental causes and to the exceptional prosperity of India.
- Caution is justifiable in framing Budgets in India, but has been carried rather further than was necessary in recent years.
- 21. A change in the date of the commencement of the financial year from the 1st April to the 1st November or the 1st January would probably enable the Government of India to frame more accurate Budgets. Such a change would also enable the India Office to fix the amount of their borrowings in London with closer regard to immediate needs. We comment this proposal for favourable consideration.
- 22. The practice of transferring revenue surpluses to London to be used in avoiding or reducing fresh borrowings for capital expenditure has been thoroughly justified in the interest of India, and the Secretary of State has made good use, for this purpose or for actual reduction of debt, of the balances from time to time accumulated in his hands.
- 23. But the recommendations which we make as regards loans by Government in India may lead to a revision of the occasions, though not of the extent, of transfers of money to London.
- 24. The independent Treasury system of the Indian Government is not an ideal one. It is partly responsible for the stringency which recurs annually in the Indian money markets.
- 25. We recommend that the Government of India should make a regular practice of granting loans to the Presidency Banks from their surplus balances in India against security on terms to be negotiated with the Presidency Banks.
- 26. In deciding upon the location of surplus balances, the Government of India and the Secretary of State should act in consultation, and, while the transmission of the necessary funds to London at favourable rates of exchange is the first consideration, the authority should have regard to all the factors including the possibility of utilising surplus balances for loans in India.
- 27. In carrying out these recommendations, the authorities should proceed tentatively and with caution.
- 28. We recommend that the amount of the annual rupce loans in India should be increased as much as possible. The figures of recent loans appear to have been somewhat over cautious. We call attention to the questions of relaxing

- present regulations in regard to endorsements on rupee paper and of creating new forms of securities.
- 29. The Secretary of State sells Council Drafts. not for the convenience of trade, but to provide the funds needed in London to meet the requirements of the Secretary of State on India's behalf.
- 30. The India Office perhaps sold Council Drafts unnecessarily at very low rates on occasions when the London balance was in no need of replenishment, but we do not recommend any restrictions upon the absolute discretion of the Secretary of State as to the amount of drafts sold or the rate at which they are sold, provided that it is within the gold points. The amount and occasion of sales should be fixed with reference to the urgency of the Government's requirements and the rate of exchange obtainable, whether the drafts are against Treasury balances or against the Reserves.
- There has been some excess of caution in the renewal of debt by the India Office during recent years.
- 32. The system of placing portions of the India Office balance out on short loan with approved borrowers in the city of London is on the whole well managed, but we draw attention to—
 - (a) The term for which loans are made.
 - (b) The desirability of giving greater publicity to the methods by which admission is gained to the list of approved borrowers.
 - (c) Some defects in the list of approved securities and especially its narrow range.
- 33. There is no ground for the suggestion that the City members of the Secretary of State's Council showed any kind of favouritism in placing on deposit with certain banks, with the directorates of which they were connected, a part of the India Office balance at a time when it was too large to be placed entirely with the approved borrowers. But we call the attention of the Secretary of State to the desirability of avoiding as far as possible all occasion for such criticism, though it may be founded on prejudice and ignorance of the facts.
- 34. We observe that in our opinion the time has come for a general review of the relations of the India Office to the Bank of England.
- 35. The working of the present arrangements for the remuneration of the Secretary of State's broker should be watched, and if necessary they should be revised.
- 36. We record our high opinion of the way in which the permanent staff, both in India and in London, have performed the complicated and difficult financial duties placed upon them.
- We recommend a continuance of a Finance Committee of Council as providing the machinery most suitable for the work required.

- 38. The Finance Committee should, if possible, contain three members with financial experience, representing.—
 - (a) Indian Official Finance.
 - (b) Indian Banking and Commerce.
 - (c) The London Money Market.
 - In any case there should be at least one member with Indian financial experience. The absence of any representative of Indian finance on the Committee since 1011 has resulted in giving undue prominence to the representation of London City experience.
- 39. While we suggest that the changes recently proposed and now under discussion in the constitution of the India Council may require some modification in order to provide for the continuance of a Finance Committee of Council, we are in synpathy with the desire for expediting financial business, which is one of the objects in view.
- 40. The present arrangement under which the Assistant Under Secretary of State, having financial experience, is able to share with the Financial Secretary the responsibility for financial business in the India Office has many advantages. For the future we recommend that either (1), the Under Secretary or Assistant Under Secretary of State should have financial experience as at present, or (2) there should be two Assistant Under Secretaries, of whom one should have financial experience.
- 41. We are not in a position to report either for a against the establishment of a State or Central Bank, but we regard the subject as one which deserves early and carpulation of a small expert committee to examine the whole question in India, and either to pronounce against the proposal or to work out in full detail a concrete scheme capable of immediate adoption.

A Note of Dissent.

The report was signed by Sir James Begbie subject to a note of dissent. In this he pointed out that the currency policy directed to the attainment of stability in the exchange value of the rupee by means of gold reserves collected from the profits realised on the coinage of rupees had brought into existence an extensive token currency, which was not a desirable form of currency for a country which absorbs gold on a very large scale. Sir James Begbie therefore held the view.

"That the true line of advance for the currency policy is to discourage an extension of the token currency by providing increased facilities for the distribution of gold when further increases in the currency become necessary. These great-ragold coins from an Indian mint of a value more suitable for general currency use than the sovereign and half-sovereign, for the purpose of assisting the distribution of gold when, as is frequently the case, the balance of trade is strong in India's favour and gold airives in considerable quanti-

ties. I also think that supplies of gold coins should be laid down in the up-country districts with the object of giving the general public effective opportunities of obtaining gold coins.

The publication of the report aroused surprisingly little interest. Only one paper in India, and none in England, exhaustively analysed it. Broadly speaking, it may be said that the report was approved by those engaged in the foreign trade, whist a strong body of those interested in fund the internal trade shared the views of Sir James Begble. The statement of the Commission, that India neither desires nor needs a gold currency, was warmly canvased, and in an address to the Finance Member in July the Indian Mer unit

chants' Bureau declared that the currency needs of India are silver and gold, not notes, and gold rather than silver. In the course of the year the silver branch of the Gold Standard Reserve was abolished by transferring it to the Paper Currency Reserve, in return for an equivalent in gold; and a Notification was issued guaranteeing to sell sterling bills on the Secretary of State on demand, at gold export point. The actual sales are enumerated in the Gold Reserve Fund (p. 179). The other steps to be taken were left to be decided after consultation with the official and unofficial bodies concerned. So far as opinion was manifested it was opposed to the establishment of a State Bank and of a gold mint.

The Railways.

The history of Indian Railways very closely [secured sanction to the building of lines by reflects the financial vicissitudes of the country. Not for some time after the establishment of Railways in England was their construction in India contemplated, and then to test their applicability to Eastern conditions three experimental lines were sanctioned in 1845. These were from Calcutta to Ranigani (120 miles), the East Indian Railway; Bombay to Kalyan (33) miles, Great Indian Peninsula Railway; and Madras to Arkonam (39 miles), Madras Railway. Indian Railway building on a serious scale dates from Lord Dalhousie's great minute of 1853, wherein, after dwelling upon the great social, political and commercial adthe great social, political and commercial advantages of connecting the chief cities by rail, he suggested a great scheme of trunk lines linking the Presidencies with each other and the inland regions with the principal ports. This reasoning commended itself to the Directors of the East India Company, and it was powerfully reinforced when, during the Mutiny, the barriers imposed on free communication were severely felt. As there was no private contail in India available for relivasy nication were severely fett. As there was no private capital in India available for railway construction, English Companies, the interest on whose capital was guaranteed by the State, were formed for the purpose. By the end of 1859 contracts had been entered into with eight companies for the construction of 5,000 miles of line, involving a guaranteed capital miles of line, involving a guaranteed capital of £52 millions. These companies were (1) The East Indian; (*) the Great Indian Peninsula; (3) the Madras; (4) the Bombay, Baroda and Central India; (5) the Bastern Bengul (5) the Indian Branch, now the Oudh and Rohilkund State Railway; (7) the Sind; Punjab and Delbi, now merged in the North Western State Railway; (8) the Great Southern of India, now the South Indian Railway. The scheme laid the foundations of the Indian Railway system as it exists to-day.

Early Disappointments.

The main principle in the formation of these companies was a Government guarantee on their capital, for this was the only condition on which investors would come forward. This on which investors would come forward. This guarantee was five per cent, coupled with the free grant of all the land required; in return the companies were required to share the surplus profits with the Government, after the guaranteed interest had been met; the interest charges were calculated at 224 to the rupee; the Rallways were to be sold to Gov-ernment on fixed terms at the close of twentyfive years and the Government were to exercise close control over expenditure and workclise close control over expendence and work-ing. The early results were disappointing. Whilst the Railways greatly increased the efficiency of the administration, the mobility direct State Agency, and funds were allotted for the purpose, the metre gauge being adopted for cheapness. Funds soon lapsed and the money available had to be diverted to con-verting the Sind and Punjab lines from metre to broad-gauge for strategic reasons. Government had therefore again to resort to the system of guarantee, and the Indian Midland (1882-85), since absorbed by the Great Indian Peninsula; the Bengal-Nagpur (1883-87), the Southern Maratha (1882), and the Assem-Bengal (1891) were constructed under guarantees, but on easier terms than the first com-panies. Their total length was over 4,000 miles.

Famine and Frontiers.

In 1879, embarrassed by famine and by the fall of the exchange value of the rupee, Government again endeavoured to enlist unaided private enterprise. Four companies were promoted:—the Nilgiri, the Delhi-Umballa-Kalka, the Bengal Central, and the Bengal North-Western. The first became bankrupt, the second and third received guarantees, and the Tirhut Railway had to be leased to the courth the second to be leased. to the fourth. A step of even greater importance was taken when Native States were invited to undertake construction in their own territories, and the Nizam's Govtheir own territories, and the Nizam's Government guaranteed the interest on 330 miles of line in the State of Hyderabad. This was the first of the large system of Native State Railways. In the first period up to 1870, 4,255 miles were opened, of which all save 45 were on the broad gauge; during the next ten years there were opened 4,239, making the total 8,494 (on the broad gauge, 6,562, the metre 1,865, and narrow 67). Then ensued a period of financial ease, It was broken by the fall in exchange and the costly lines built on the frontier. The Penideh incident which on the frontier. The Penideh Incident, which brought Great Britain and Russia to the verge of war, necessitated the connection of our outposts at Quetta and Chaman with the main trunk lines. The sections through the desolate Harnal and Bolan Passes were enormously costly; it is said that they might have been ballasted with rupes; the long tunnel under the Khojak Pass added largely to this necessary, but unprofitable outlay.

Rebate Terms Established.

This induced the fourth period-the system of rebates. Instead of a gold subsidy, com-panies were offered a rebate on the gross earnings of the traffic interchanged with the main ings of the traffic interchanged with the main line, so that the dividend might rise to four per cent, but the rebate was limited to 20 per cent. of the gross earnings. Under these conditions, there were promoted the Ahmedabad-Prantei, the South Behar, and the Southern Punjab, although only in the case of the first were the terms strictly adhered to. The Barsi Light Railway, on the two feet six inches gauge, entered the field without any guarantee, and efficiency of the administration, the mobility of the troops, the trade of the country, and the movement of the population, they failed to make profits sufficient to meet the guaranteed interest. Some critics attributed this to the interest. Some critics attributed this to the suncecessarily high standard of construction addonted and to the engineers' ignorance of local conditions: the result was that by 1899 the deficit on the Railway budget was Rs. 1869 the deficit on the Railway budget was Rs. 1869 the deficit on the Railway budget was Rs. 1869 the deficit on the Railway budget was Rs. 1869 the deficit on the Railway budget was Rs. 1869 the deficit on the Railway budget was Rs. 1869 the deficit on the Railway budget was Rs. 1869 the provided for some more conomical competition of 4 per cent. trustee stocks, method of construction, the Government they were revised in 1896 to provide for an entered the field without any guarantee, and with rolling stock designed to illustrate the carrying power of this gauge. The rebate terms being found unattractive in view of the

of surplus profits, or rebate, up to the full extent of the main line's net carnings in supplement of their own net earnings, the total being limited to 3½ per cent, on the capital outlay. Under these terms, a considerable number of feeder line companies was promoted, though in none were the conditions arbitrarily exacted. As these terms did not at first attain their purpose, they were further revised, and in lieu was substituted an increase in the rate of guarantee from 3 to 3½ per cent. and of rebate from 3½ to 5 per cent. with equal division of surplus profits over 5 per cent. in both cases. At last the requirements of the market were met, and there has since been a mild boom in feeder railway construction and the stock of all the sound companies promoted stands at a substantial premium.

Railway Profits Commence.

Meantime a much more important change was in progress. The gradual economic development of the country vastly increased the traffic, both passenger and goods. The failing in of the original contracts allowed Government to renew them on more favourable terms. The development of irrigation in the Punjab and Sind transformed the North-Western State Railway. Owing to the burden of maintaining the unprofitable Frontier lines, this was the Cinderella Railway in India—the scapegoat of the critics who protested against the unwisdom of constructing railways from borrowed capital. But with the completion of the Chenab and Jhelum Canals, the North-Western became one of the great grain lines of the world, choked with traffic at certain seasons of the year and making a large profit for the State. In 1900 the railways for the first time showed a small gain to the State. In succeeding years the net receipts grew rapidly. In the four years ended 1907-08 they averaged close upon £2 millions a year, In the following year there was a relapse. Bad harvests in India, accompanied by the mone-tary panic caused by the American financial crisis, led to a great falling off in receipts just when working expenses were rising, owing to the general increase in prices. Instead of a profit, there was a deficit of £1,240,000 in the railway accounts for 1908-09. But in the following year there was a reversion to a pro-fit, and the net Railway gain has steadily increased. For the year ended March 1913 this gain amounted to £5.49 millions (Rs. 823 lakhs). Although in a country like India, where the finances are mainly dependent upon the character of the monsoon, the railway revenue must fluctuate, there is no reason to anticipate a further deficit, but every ground for hoping that the railway profits will fill the vacuum in the Indian revenues caused by the cessation of the opium trade with China.

Contracts Revised.

A very important factor in this changed position is the revision of the original conposition is the revision of the original contracts under which the guaranteed lines were constructed. The five per cent, dividend, guaranteed at 22d per rupee, and the half-yearly settlements made these companies a drain on the State at a time when their stock

absolute guarantee of 3 per cent with a share to fall in was the East Indian, the great line to fall in was the East Indian, ine great memorial calcular with Delhi and the Northern provinces. When the contract lapsed, the Government exercised their right of purchasing the line, paying the purchase-money in the form of terminable annuities, derived in the form of terminative annuities, derived from revenue, carrying with them a sinking fund for the redemption of capital. The railway thus became a State line; but it was released to the Company which actually works it. Under these new conditions the East Indian Company brought to the State in the greate guided 1000 effer meating all charges. ten years ended 1909, after meeting all charges, including the payments on account of the terminable annuity by means of which the purchase of the line was made, and interest on all capital outlay subsequent to the date of purchase, a clear profit of nearly ten millions. At the end of seventy-four years from 1880, when the annuity expires, the Government will come the second seventy for the control of the seventy-four years from 1880, when the annuity expires, the Government will come the seventy for nent will come into receipt of a clear yearly income of upwards of £2,700,000, equivalent to the creation of a capital of sixty to seventy millions sterling. No other railway shows results quite equal to the East Indian, because, in addition to serving a rich country by an easy line, it possesses its own collieries and eploys cheap coal. But with allowance for these factors, all the other guaranteed companies which have been acquired under similar conditions as their contracts expired, have proportionately swelled the revenue and assets of the State. It is difficult to estimate the amount which must be added to the capital debt of the Indian railways in order to counterbalance the loss during the period when the revenue did not meet the interest charges. According to one estimate it should be £50 millions. But even if that figure he taken, Government have a magnificent asset in their realizer. railway property.

Improving Open Lines.

These changes induced a corresponding change in Indian Railway policy. Up to 1900 the great work had been the provision of trunk lines. But with the completion of the Nagda-Muttra line, providing an alternative broad gauge route from Bombay to Delbi through Eastern Raiputana, the trunk system was virtually complete. A direct broad gauge route from Bombay to Sind is needed, but chiefly for strategic purposes. The noor commercial prospects of the line and the opposition of the Rao of Cutch to any through line in his territories, keep this scheme through line in his territories, keep this scheme in the background. There does not exist any through rail connection between India and Burma, although several routes have been surveyed; the mountainous character of the region to be traversed, and the easy means of communication with Burma by sea, rob this scheme of any living importance. Further Survey work was understable in November 1921 Survey work was undertaken in November 1914, the three routes to be surveyed being the coast route, the Manipur route, and the yukond valley route. The metre gauge systems of Northern and Southern India must also be connected. these works are subordinate to the necessity for bringing the open lines up to their traffic re-quirements and providing them with feeders. The sudden increase in the trade of India found the main lines totally unprepared. Costwas at a high premium. The first contract ly works were necessary to double lines, improve the equipment, provide new and better yards and terminal facilities and to increase the rolling stock. Consequently the demands on the open lines have altogether overshadowed the provision of new lines. Even then the railway budget was found totally inadequate the railway budget was found totally inadequate at Executive Council. for the purpose, and a small Committee sat in London, under the chairmanship of Lord Inchcape, to consider ways and means. This Committee found that the amount which could be remuneratively spent on railway construction in India was limited only by the capacity of the money market. They fixed the annual allotment at £12,000,000 a year. Even this reduced sum could not be reached in practice, at once reached in practice although it has been provided during the past two years.

Government Control.

As the original contracts carried a definite Government guarantee of interest, it was necessary for Government to exercise strong supervision and control over the expenditure during construction, and over management and expenditure after the lines were open for traffic. For these purposes a staff of Consulting Engineers was formed, and a whole system of checks and counterchecks established, leading up to the Railway Branch of the Public Works Department of the Government of India. As traffic developed, the Indian Railways outgrew this dry nursing, and when the original contracts expired, and the interests of Government and the Companies synchronised, it became not only vexatious but unnecessary. Accordingly in 1901-02 Mr. Thomas Robertson was deputed by the Secretary of State to examine the whole question of the organisation and working of the Indian Railways, and he recommended that the existing system should be replaced by a Railway Board, consisting of a Chairman and two members with a Secretary. The Board was formally constituted in March 1905. The Board is outside, but subordinate to the Government of India in which it is represented by the Department of Commerce and In-dustry. It prepares the railway programme of expenditure and considers the greater questions of policy and economy affecting all the lines.
Its administrative duties include the construc-Its administrative duties include the construc-tion of new lines by State agency, the carrying out of new works on open lines, the improve-ment of railway management with regard both to economy and public convenience, the arrangements for through traffic, the settle-ment of disputes between lines, the control and promotion of the staff on State lines, and the general supervision over the working and expenditure of the Company's lines. Two minor changes have taken place since the constitu-tion of the Railway Board. In 1908, to meet the complaint that the Board was subjected to excessive control by the Desubjected to excessive control by the Department of Commerce and Industry, the powers of the Chairman were increased and he was given the status of a Secretary to Government with the right of independent access to the Nizam's Hyderabad-Godaver Railway, with the right of independent access to the Nizam's Hyderabad-Godaver Railway, with the representative of the Rail-to-to-uncil as the representative of the Rail-to-to-uncil as the representative of the Rail-to-to-uncil as the representative of the Rail-to-to-uncil as the representative of the Rail-to-to-uncil as the representative of the Rail-to-to-uncil as the representative of the Rail-to-to-uncil as the representative of the Baril line, Illustrating the capacity of the two feet six inch gauge, there has been Board with the Companies, an informal mission this rather than on the metre gauge.

Management.

The Railways managed by Companies have Boards of Directors in London. They are represented in India by an Agent, who has under him a Traffic Manager, a Chief Engineer, a Locomotive Superintendent, a Store-keeper, a Lolice Superintendent, a Store-Reeper, a Police Superintendent, was Store-keeper, a Police Superintendent, (who is ap-pointed by Government), and an Auditor. The State Railways are similarly organised, with a slightly different nomenclature; the head of the line is termed the Manager.

Clearing House.

Proposals have several times been made for the establishment of a Clearing House but the distances are too great. The work which would ordinarily be done by the Clearing House is done by the Audit Office of each Railway.

The Railway Conference.

In order to facilitate the adjustment of domestic questions, the Railway Conference was instituted in 1876. This Conference was consolidated into a permanent body in 1903 under the title of the Indian Railway Confer-ence Association. It is under the direct control of the railways, it elects a President from amongst the members, and it has done much useful work.

The Indian Gauges.

The standard gauge for India is five feet six inches. When construction was started the broad gauge school was strong, and it was thought advisable to have a broad gauge in order to resist the influence of cyclones. But in 1870, when the State system was adopted it was decided to find a more economical gauge, it was decided to nnu a more economical gauge, for the open lines had cost £17,000 a mile. After much deliberation, the metre gauge of 3 feet 3 inches was adopted, because at that time the idea of adopting the metric system for India was in the air. The original intention was to make the metre gauge lines provisional; they were to be converted into broad gauge as soon as the traffic justified it; consequently they were built very light. But the traffic expanded with surprising rapidity, and it was found cheaper to improve the carrying power of the metre gauge lines than to convert them to the broad gauge. So, except in the Indus Valley, where the strategic situation demanded an unbroken gauge, the metre gauge lines were improved and they become a permanent feature in the railway system. Now there is a great metre gauge system north of the Ganges connected with the Rajputana lines and Kathiawar. Another System in Southern India embracing the Southern Maratha and the South

STATISTICAL POSITION.

The Administration Reports on Indian Rail- | total outlay thus amounted to Rs. 4,48,63 30 ways hitherto published have had reference to lakhs.

The actual expenditure during 1913-14, report issued being that for the year 1912. Ow- amounted to Rs. 18 46 lakhs, distributed as ing to the adoption by the principal railway administrations of the Government financial year for all accounts and statistical purposes, year to all accounts and Saussician purposes the reports will henceforth be published for the Government financial year which begins on the first of April; and the present statement accordingly deals with the transactions of the year 1st April 1913 to 31st March 1914.

Capital.—The actual capital outlay (booked cost) on lines in which the State is financially interested (excluding premia for the purchase of Companies' lines) from the commencement of operations on all lines open at the close of the year 1913-14 amounted to Rs. 4,40,15.43 lakhs and on lines then under construction to Rs. 7,68 53 lakhs. In addition Rs. 79 34 lakhs were expended on miscellaneous items. The

follows :-

Open line work	e forc	ludino i	roll.	Rs.
ing-stock) Rolling-stock	•	::		9,29,00,000 7,31,00,000
New Lines (exc stock)	angini	, toming		1,86,00,000
	T	otal		18,46,00,000

Results of Working.

The financial result of the working of the State Railways during the year 1913-14 is a return of Rs. 856 lakhs. Out of this a sum of Rs. 145 lakhs (£968 thousand) was expended in the form of annuity payments in redemption The of capital.

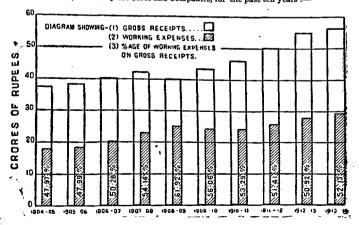
Yield Per Cent.

The gross earnings of all Indian railways during the year 1913-14 amounted in round figures to Rs. 6,358-56 lakhs, compared with Rs. 6,170-87 lakhs in 1912-13, being an increase of Rs. 187-69 lakhs, while the working expenses were Rs. 174-80 lakhs more than in 1912-13. The net earnings amounted to Rs. 3,056-52 lakhs, against Rs. 3,052-63 lakhs in 1912-13, or an increase of Rs. 1289 lakhs. These net carnings yielded a return on the capital outlay (Rs. 49,509 00 lakhs) on open lines, i. e. on mileage carning revenue, of 6.19 per cent. as compared with 6.48 per cent. in 1912-13. The corresponding actual return per cent. for the previous calendar years is compared as follows :--

1904	1905	1906	1907	1908	1909	1910	1911	1912	1913-14
6.00	6.07	5.96	5.86	4.33	4.81	5.46	5.87	6.77	6.19

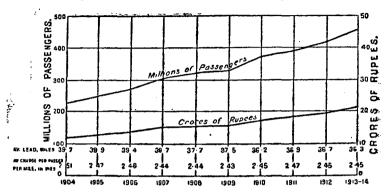
Percentage of Expenses.

The following diagram shows graphically the ratio of aggregate revenue expenditure to gross celpts of State lines, worked by the State and Companies, for the past ten years:—



Passenger Earnings.

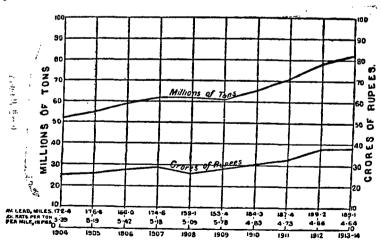
The number of passengers carried and the earnings therefrom are compared in the next diagram.



The increase in the passenger traffic during the year under review indicates a general development of traffic, brisk trade, an increased number of people attending melas and fairs and the result of opening new lines.

Goods Traffic.

A similar comparison of the tonnage of, and earnings from, goods traffic is afforded by the following diagram:—



It will be observed that though there was a considerable increase in the tonnage carried during the year under review this was not accompanied by a corresponding growth of earnings. The explanation is that the long distance traffic to the ports fell off on account of reduced exports of grain to Europe, owing to the failure of crops in the United Provinces and some parts of Bengal.

Mileage.-During the year 1913-14, 1,053-47 miles of railway were opened to traffic, bringing the total mileage open (after allowing for minor corrections due to realignments, etc.) up to 34.656 miles. The additional mileage was made up as follows :-

	5'6" gauge.	3'33" gauge.	2'6" gauge.	2'0" gauge.	Total.
· · · · · · · · · · · · · · · · · · ·	Miles.	Miles.	Miles.	Miles.	Miles.
State lines worked by the State	143.97 205.85	10.18 10.07	88.91 214.52	::::	243.06 430.44
Branch line Companies' railways assisted un- der 'rebate terms' Assisted Companies' lines subsidised by District	70.24		71.65	14.28	156.17
Assisted Companies' lines substituted by District Boards Assisted Companies' lines receiving land only			36.80		36.80
Assisted Companies lines receiving and only from Government Native State lines worked by Native States Native State lines worked by Companies		39.29 104.15	19.73 23.83	::::	39.29 123.88 23.83
Total	420.06	163.69	455.44	14.28	1053.47

Ten Years' Progress.-The progress made during the past ten years is summarised in the following table :-

		Mileage opened at the end of										
Gauge.		1904	1905	1906	1907	1908	1909	1910	1911	1912	1913-14	
5'6" 3'3}" 2'6" 2'0"	::	14,733 11,562 942 328	15,028 11,959 980 328	15,548 12,149 1,071 329	15,821 12,613 1,234 342	15,951 12,863 1,394 368	16,309 13,323 1,443 415	16,701 13,530 1,436 432	17,016 13,759 1,632 432	17,189 14,165 1,692 438	14,389 2,174	
Total	••	27,565	28,295	29,097	30,010	30,576	31,490	32,099	32,839	33,484	34,656	

duction, efforts have been made to secure the participation of private capital in railway con-struction in India under what are called the branch line terms. In 1910 more liberal terms were offered for this purpose, and private enter-prise was offered two alternative forms of assistance :- (1) a rebate paid by the parent line from its net earnings from traffic brought to it by the feeder railway sufficient to make up 5 per cent. on the capital outlay, thus limiting the liability of the main line railway but holding out a fair prospect of a 5 per cent return ; or (2) a firm guarantee of 31 per cent. on capital outlay.

The result of offering these very liberal terms has been apparent during the period under review. Up to the end of the year 1912, 1271 lakhs had been raised under the Branch line terms of 1910 for the construction of 304 miles of railway. During the period under review, Rs. 224 lakhs of capital was raised for the construction of 341 miles.

Of the ten companies which have been floated since 1911 under these terms, eight have taken advantage of the first alternative, the rebate terms, while two only have availed themselves of the guarantee terms. The guarantee terms,

Feeder Railways.—As noted in the intro- | so far as the shares of these companies are inavailable for the investment of trust funds. In order to encourage investments of this class, one of the modifications introduced in 1913, was a clause in the terms which rendered it possible for companies to be floated partly on the rebate and partly on the guarantee terms, a concession of which advantage has been taken since the close of the period under review.

Apart from concessions actually granted, there were under negotiation at the close of the year 1913-14, proposals for the construction of 22 miles of railway on the 2'-0" gauge, 1,648 miles on the 2-6° gauge, 413 miles on the 3°-33° gauge and 274 miles on the 5'-6° gauge, or an aggregate of 2,35° miles of railway involving a capital outlay of at least 12 trores of rupeus equal to £8 million sterling. It will be observed that light railways on the 2'-6" gauge, have so far proved most attractive to those interested in this class of enterprise.

Local Boards.—Another agency for the financing of feeder railways has been found in the District Boards. These local bodies have become fully alive to the advance in the general welfare of a district which is to be anticipated from the improvement of communications. Since the year 1884, District Boards in Madras however, offer one very distinct advantage have been empowered to levy a special railway cess not exceeding 3 pies per rupee of land revenue, and advantage had been taken of this, revenue, and advantage had been taken of this to collect, up to 31st March 1914, a sum of Rs. 96,31,820, the greater part of this sum having been accumulated since 1903. During the period under review, it has been decided that all local Governments who may wish to do so, may legislate for the levy of a similar cess, by which means it is hoped that much encouragement may be given to the construction of local feeder. may be given to the construction of local feeder railways at the cost of local funds. Between the 1st January 1913 and the 31st March 1914, the following lines were sanctioned for construction at the cost of local funds :-

(1) Podanur-Pollachi Railway (3'-3?") by

(1) FOGARUT-FORGATI RAHWAY (3'-3g") by the District Board of Coimbatore, 25 miles in length, and estimated to cost Rs. 11\frac{1}{2} lakhs.
(2) Tenali-Repali Railway (5'-6") by the District Board of Guntur, 23 miles in length, and estimated to cost Rs. 14 lakhs.

In the former case, the District Board were permitted to raise a debenture loan of 5 lakhs

to supplement the funds in hand from the procceds of the cess.

Accidents.—The number of passengers killed from causes beyond their own control was 0.12 per million of passengers travelling, which gives an average of 1 in 286.45 millions of miles

The large increase in the number of passengers killed by accidents during the year 1913 14, compared with the number killed during previous years, was due to serious accidents which occurred on the Great Indian Peninsula Railway on the 30th April 1913 and on the East Indian Railway on the 28th June 1913.

The following are particulars of the more

scrious train accidents :-

A goods train which was held up by the signals outside Borgaon Station, Great Indian Peninsula Railway, was run into on the 30th April 1913, by a passenger train moving in the same direction from Katepurna. Three third class carriages were completely wrecked and 33 persons were killed and 20 seriously injured. The direct cause was the defective working of the block instruments which would, if in order, have prevented the admission of the second train on the section until the goods train had reached Borgaon.

THE CHIEF RAILWAYS IN INDIA.

The Assam-Bengal Railway, which is con-structed on the metre gauge, starts from Chittagong and runs through Surma Valley across the North Cachar Hills into Assam. It is worked under a limited guarantee by a company whose contract is terminable in 1921. The main line has an open mileage of 811.73; 54.38 miles are under construction or sanctioned bringing the total to 866 11. The total capital outlay is total to 800 II. The total capital outling is Rs. 1,570 lakhs, gross earnings 70 lakhs, net earnings, 22 lakhs and the percentage of net earnings on the capital outlay 1 45. The loss

to the State for 1913-14 was Rs. 26,38,825.

Bengal and North-Western.

The Bengal and North-Western Railway was constructed on the metre gauge system by a company without any Government assistance

The accident should have been averted by the adoption of the precautions enjoined by rules. Observance of those rules in this case would have led the goods train staff to protect the train by sending a man back to warn any following train by means of hand signals and of detonators placed on the line. The case was the subject of exhaustive departmental and judicial investigation as a result of which the responsible members of the inspecting station and train staff were sentenced to varying terms of imprisonment.

Another disastrous accident, in which 23 persons were killed and about the same number injured, occurred on the Ondal-Sainthia branch of the East Indian Railway. Owing to abnormally heavy rain, the Salko river rose rapidly to an unprecedented extent and washed away the railway embankment just behind the south abutment of the bridge near Panchra station early in the morning of the 28th June 1913. A passenger train left Panchra at six o'clock, and fell into the gap caused by the breach; ten out of the eighteen vehicles on the train were completely destroyed, the engine and other vehicles also being badly damaged. The impact of the train at the back of the abutment destroyed this and wrecked the bridge which had not itself been directly injured by the flood.

A careful examination of this part of the line had been made only shortly before the date of the accident, and the occurrence can only be attributed to causes which could not have been foreseen; the flood level is reported to have been eight feet above any previously recorded. On the same occasion a light engine ran into a breach caused by a washaway in the railway embankment near the Bukleswar bridge; the engine crew, with the exception of the fireman

engine crew, with the exception of the fireman who was killed, fortunately escaped.

Railway Staff.—The total number of servants in railway employ at the close of the year was 633,694, of which number 7,988 were Europeans, 10,437 Anglo-Indians, 615,290 Europeans, 10,437 Anglo-Indians, 615,260 Indians. Of the Europeans and Anglo-Indians 15,606 were enrolled as Volunteers. At the close of 1913-14 there were 10,992 children and 8,943 apprentices and workmen attending the Railway Schools.

tensive additions have been made in both sections. It is connected with the Rajputana metre gauge system at Cawnpore and with the Eastern Bengal State Railway at Khatihar and the Oudh and Rohlikhand Railway at Benares. The open mileage is 2028'28 under construction or sanction 34'70, total 2,063'07. The total capital outlay amounts

2,085 07. The total capital outly amounts to Rs. 989 lakhs, gross earnings 106 lakhs; net earnings Rs. 63 lakhs and interest divided between the Government and Company Rs. 119 lakhs; percentage of total net income on capital outlay 6.81.

Bengal-Nagpur.

The Bengal-Nagpur Railway was commenced as a metre gauge from Nagpur to Chiatis-garh in the Cenrtal Provinces in 1887. A company without any Government assistance other than free land and was opened to traffic in 1885. The system was begun in 1874 as the Tirhut State Railway. In 1890 this line was leased by Government to the Bengal Katil. In 1901 a part of the East Coast State and North-Western Railway. Since then extransferred to it and in the same year sanction was given for an extension to the coal fields and for a connection with the Branch coal neids and for a connection with the Disartor the East Indian Railway at Hariharpur. Open mileage 2,730°35; under construction or sanctioned 283°36; total 3,013°71. The total capital outlay is Rs. 3,874 lakhs, gross earnings Rs. 420 lakhs, net earnings 215 lakhs, percentage of net earnings on capital outlay is 5°55. The gain to the State is 73 lakhs.

Bombay Baroda.

The Bombay, Baroda and Central India Railway is one of the original guaranteed railways. It was commenced from Surat via Baroda to Ahmedabad, but was subsequently extended to Bombay. The original contract was terminable in 1880, but the period was extended to 1905; and then renewed under revised conditions. In 1885 the Rajputana Malwa metre gauge system of State railways was leased to the Company and has since been incorporated in it. On the opening of the Nagda-Muttra, giving broad gauge connection through Eastern Rajputana with Delhi, the working was entrusted to this Company. On the acquisition of the Company in April 1907 the purchase price was fixed at £11.685,581. The statistical working of the broad gauge shows a mileage of 993 '23, the capital outlay 2,356 lakhs, gross earnings 360 lakhs, net carnings 183 lakhs, percentage of net earnings on the capital outlay 7.80; gain to the State 67 lakhs. railways. It was commenced from Surat via

The metre gauge system of the Company shows a mileage of 1,815.64; total capital outlay 1,678 lakhs, gross earnings 289 lakhs, net earnings, 147 lakhs; percentage of net earnings on the capital outlay 18.76; gain to the State 93 lakhs.

Burma Railways.

The Burma Railway is an isolated line, and although various routes have been surveyed although various routes have been surveyed there is little prospect of its being connected with the Railway system of India on account of the difficult and sparsely populated country which intervenes. It was commenced as a State Railway and transferred in 1896 to a State Railway and transferred in 1896 to a Company under a guarantee. The mileage is 1,341 '85, total capital outlay Rs. 1,748 lakhs, gross earnings 224 lakhs, net carnings 104 lakhs; percentage of net earnings on the capital tal outlay 5.98, gain to the State 28 lakhs. Bi ma extensions have a total mileage of 253.18.

Eastern Bengal.

The Eastern Bengal State Railway was pro-The Eastern Bengai State Railway was pro-moted under the original form of guarantee and was constructed on the broad gauge. The first portion of the line running to Calcutta over the Ganges was opened in 1862. In 1874 sanction was granted for the construction on the metre gauge of the Northern Bengal State Railway, which ran from the north bank of Railway, which ran from the north bank of the Ganges to the foot of the Himalayas on the way to Darjeeling. These two portions of the line were amalgamated in 1884 into one State Railway. The open mileage is 1669 74, capital total outlay 3,269 lakhs, gross earnings 375 lakhs, net earnings 166 lakhs, percentage of net earnings on capital outlay 5 09. Gain to the State 40 lakhs.

The East Indian.

The East Indian Railway is one of the three railways sanctioned for construction as experimental lines under the old form of guarantee. The first section from Howrah to Pandua was opened in 1854 and at the time of the Mutiny ran as far as Raniganj. It gives the only direct access to the port of Calcutta from Northern India and is consequently fed by all the large railway systems connected with it. In 1880 the Government purchased the line, paying the shareholders by annuities, but leased it again to the company to work under a contract which is terminable in 1919. The open mileage is 2,717.72 under construction or sanction 87.79, total 2,805.51. Total capital outlay (on 2,424 miles) Rs. 6,670 lakhs, gross earnings 1,026 lakhs, net earnings Rs. 613 lakhs, percentage of net earnings on capital outlay 9.20; gain to the State 237 lakhs.

Great Indian Peninsula.

The Great Indian Peninsula Railway is the earliest line undertaken in India. It was promoted by a Company under a guarantee of 5 per cent. and the first section from Bombay to Thana was open for traffic in 1853. Sanction was given for the extension of this line via Poona to Raichur, where it connects with the Madras Railway, and to Jubbulpore where it meets the East Indian Railway. The feature of the line is the passage of the Western Ghats, these sections being 151 miles on the Bhore Ghat and 91 miles on the Thul Ghat which rise 1,131 and 972 feet. In 1900, the contract with the Government terminated and under an arrangement with the Indian Midland Railway that line was amalgamated and leased to a Company to work. The open mileage is 3,025'90, under construction or sanction 260'80, total 3,236'76. The total capital outlay on the Company's own system of 2,484'03 miles is 5,949 lakhs, gross earnings, 857 lakhs, net earnings 340 lakhs, percentage of net earnings on capital outlay 5.72; gain to the State 2.95

Madras Railway.

The Madras Railway was the third of the original railways constructed as experimental lines under the old form of guarantee. It was projected to run in a north-westerly direction in connection with the Great Indian Peninsula Railway and in a south-westerly direction to Calicut. On the expiry of the contract in 1907 the line was amalgamated with the South-1907 the line was amalgamated with the Southern Mahratta Railway Company, a system on the metre gauge built to meet the famine conditions in the Southern Mahratta Country and released to a large Company called the Madras and Southern Mahratta Railway Company. The mileage is 3,132°83, under construction, or sanction 58°03, total 3,190°86. The capital outlay on the Company's own system of 2,552°53 miles is 3,204 lakhs, gross earnings 372 lakhs, net earnings 164 lakhs, percentage of net carnings on capital outlay 5°13, loss to the State 36 lakhs. (The annuity payment is Rs. 73 lakhs.)

The North-Western.

The North-Western State Railway began its existence at the Sind-Punjab-Delhi Railway, which was promoted by a Company under the original form of guarantee and extended to

Delhi. Multan and Lahore and from Karachi lakhs, net earnings 117 lakhs, percentage of to Kotri. The interval between Kotri and Multan was unbridged and the railway traffic was exchanged by a ferry service. In 1871-72 sanction was given for the connection of this by the Indus Valley State Railways and at the same time the Punjab Northern State Railway from Lahore towards Peshawar was begun In 1886 the Sind-Punjab-Delhi Railway was acquired by the State and amalgamated with these two railways under the name of the North-Western State Railway. It is the longest railway In India under one administration. The opened mileage is 5,177.86, under construction or sanction 273.29, total 5,431.15 The statistical results of the working of the State owned 4.011'62 miles are total outlay Rs. 8,324 lakhs, gross earnings 867 lakhs, net earnings 367 lakhs, percentage of earnings on capital outlay 4.41, gain to the State 54 lakhs.

Oudh and Robilkhand-

Oudh and Rohilkhand Railway was another of the lines constructed under the original form of guarantee. It began from the north bank of the Ganges running through Rohilkhand as far as Saharanpur where it joins the North-Western State Railway. It was not until 1887 that the bridge over the Ganges was completed and connected with the East Indian Railway. To effect a connection between the metre gauge systems to the North and those to the South of the Ganges, a third rall was laid between Bhurlwal and Cawnpore. The Company's contract expired in 1889 when the Railway was purchased by the State and has since been worked as a State Railway. The opened mileage is 1,670°37, under construction and sanction 107°78, total 1,778°15. The total capital outlay on the State system of 1,638°35 miles is 2,164 lakhs, gross earnings 241 lakhs, net earnings 123 lakhs, presentage of net earnings on capital outlay 5°69. Gain to the State was 31 lakhs.

The South Indian. Railway. To effect a connection between the

The South Indian. The South Indian Railway was one railways. the original guaranteed Tt. Was begun by the Great Southern India Railway Company as a broad gauge line; but was converted after the seventies to the metre gauge. This line has been extended and now serves the whole of the Southern India, south of the south-west line of the Madras Railway. Between Tuticorin and Ceylon a ferry service was formerly maintained. but a new affil more direct route to Ceylon via Rameshwaram was opened at the beginning of 1914. As the original contract ended in 1907, a new contract was entered up-on with the Company on the 1st of January on with the Company on the lat of January all wells had been sunk, all piers completed 1908. The open mileage is 1,752-67, under and construction or sanction 94.34, total 1,847.01. The statistical results of the working of the Bridge for all descriptions of traffic carly in Company's system of 1,453.60 miles gives a 1915. The Engineer-in-Chief of the work is capital outlay, 1,826 lakhs, gross earnings 280 Mr. R. R. Gales, M. Inst. C. E., M. Am. Soc. C. E.

net earnings to capital outlay of 6.42; gain to the State 36 lakhs.

The Native States.
The principal Native State Railways are: The Nizam's, constructed by a company under a guarantee from the Hyderabad State; the Kathlawar system of railways, constructed by subscriptions, among the several Chiefs in Kathiawar; the Jodhpur-Bikaner Railway, con-structed by the Jodhpur and Bikaner Chiefs; structed by the Jodhpur and Bikaner Chiefs; the system of rullways in the Punjab construc-ed by the Patiala, Jind, Maler Kotla, and Kashmir Chiefs; and the rullways in Mysore constructed by the Mysore State.

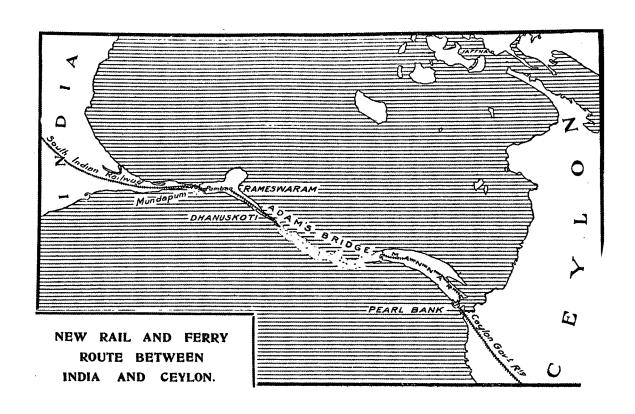
The Sara Bridge.

The construction of a bridge over the Lower Ganges near Sara, which was sanctioned in 1908, is approaching completion. It will provide through rail communication between the jutegrowing area to the north-east of the site and Calcutta. A very large traffic in wheat and seeds from the area to the north-west is also expected, and the gain in convenience, by obviating the present double transhipment and delay, is expected to lead to a large increase in delay, is expected to lead to a large increase in the passenger traffic between Darjeeling and Shillong and Calcutta. Work on the bridge itself was begun in 1911. It consists of 15 spans of 345 feet 1; inches and six land spans of 75 feet, a total length of 5,900 feet. It provides for a double line, and when it is complete the broad-gauge will be extended northward to Santahar, 52 miles from Sara, which will therefore become the changing station for Darteeling assessment traffic to the metrequies Darjeeling passenger traffic to the metre-gauge system. The bridge is to be carried on 16 piers. for which well foundations 150 to 160 feet deep and 63 feet long by 37 feet wide have been sunk. The great depth of the wells, the deepest in the world, is necessary owing to the scouring action of the river, and has been obtained by direct dredging with plant electrically driven from two power-houses, one on each bank. The piers are formed of concrete blocks above the steel caissons, and of steel trestles above high flood level. A very noticeable feature of the project is the approach work, which has cost Rs. 84 lakhs. On the left bank the approach is about 4 miles long and for 2,000 feet of that length is at the height of 50 feet above the surrounding country: on the right bank the approach is three miles long. The estimated cost of the whole undertaking is Rs. 4,76,68,863. At the end of October 1914 all the Training Works except the protection of the Sara Bank had been completed and of the Bridge itself all wells had been sunk, all piers completed

INDIA AND CEYLON.

Works of great importance for improving of 57 miles and Nature has provided the the means of communication between India and Coylon have been under consideration for them. The 57 miles are already partly spanned many years. Part of the programme has just been carried to completion and the formal ceremony of opening a new Indo-Ceylon side, and between them lies Adam's Bridgo, route took place early in1914.

India and Ceylon are separated by a distance channels between them.



A careful survey was made of Adam's Bridge in 1838-39 by Lieuts. Powell and Ethersley of the Indian Navy, and in 1877 Capt. Shaw Stewart, of the Madras establishment, published a note on the question of a railway from India to Ceylon. Authentic data for a profitable discussion of a bridge project were worked out in 1894, in which year Mr. Waring, for the Government of Ceylon, and Mr. Shadbolt, for the Government of Madras, each made an independent survey and published estimates and plans for a railway connection.

Many interesting problems and proposals were set out in these last engineers' reports. Both experts were agreed that a railway was well within the resources of both capital and science. They discovered that since the survey of 1838-39 considerable alterations had taken place in the currents of the Gulf of Manaar and this pointed to the advisability of a bridge scheme rather than a causeway. They estimascheme rather than a causeway. They estimated the cost of bridges along Adam's Bridge between Rameswaram and Manaar at two crores and eighty lakhs rupees.

A consideration of great importance in regard to the proposal for a through railway is that the gauges of the approach lines on the Indian and Ceylon shores are different. The Indian line is metre-gauge and the Ceylon railways are built to standard gauge.

The South Indian Railway, during the years 1906-08, built a metre-gauge line across the island of Rameswaram, which is separated from the mainland by the Pamban Reef, 12 miles long. The South Indian Railway was carried to the farthest point on the mainland of India by the opening of the Madura-Mandapan line towards the and of 1000 Railway. pan line towards the end of 1902. Railway their voyages between Europe and Australian development in Ceylon has similarly progressed. and Far Eastern ports.

The Ceylon system now extends to the island of Manaar. During the past two years a via-duct has been constructed connecting the South Indian Railway at Mandapan with the Rameswaram Island railway at Pamban, the nearest point on the island to the mainland. A steel viaduct with a rolling lift bridge over the Pamban Channel, which occurs in the Pamban Reef, has been provided.

The railways, therefore, approach to the northern and southern ends of Adam's Bridge. Three turbine ferry steamers specially built in England were brought out in the autumn of 1913 to carry passengers between the respective railway termini. The distance is 40 miles. During the north-east monsoon the ferry steamers will probably run on the south-west side of the islands of Rameswaram and Manaar and during the south-west monsoon the passage may be made on the north-east side of the islands, so that passengers will always have the advantage of smooth water.

Meanwhile, inquiries into the problem of the construction of a railway along Adam's Bridge are being pressed forward. Another survey has been made and is stated to show that the cost of the project would be much less than was originally estimated. The line would be 22 miles long and it is believed that the total expenditure for construction would not exceed 125 lakhs.

The new route was opened on February 24. 1914, but only for passenger service. It brings people living in the southern half of India, and in eastern India, within com-paratively easy reach of Colombo and the several lines of steamers which call there on

INVENTIONS AND DESIGNS.

into force on the 1st January 1912. The object of the Act was to provide a simpler, more direct, and more effective procedure in regard both to the grant of patent rights and to their subsequent existence and operation. The changes made in the law need not here be referred to in detail. They gave further protection both to the tion both to the inventor, by providing that his application should be kept secret until nis application should be acept screen with acceptance, and to the public, by increasing the facilities for opposition at an effective period. At the same time a Controller of Patents and Designs was established, with power to dispose of many matters previously referred to the Governor-General in Council, and provision was made for the grant of a sealed "patent" instead of for the mere recognition of an "exclusive privilege." The provisions of the Act follow with the necessary modifications those of the British Inventions and Designs Act of 1907

The records of proceedings under the Act 333 designs were registered during the year.

The Inventions and Designs Act (No. V.) of 1888 show a steady, though not very rapid of 1888 was replaced by the Indian Patents increase in recent years in the number of appliand Designs Act (No. II.) of 1911, which came cations for leave to file specifications. The cations for leave to file specifications. The number of applications received increased from 524 in 1902 to 807 in 1911, and the number of specifications filed (i. e., of "exclusive privileges" required) from 375 to 605. The total number of applications under the Act up to the end of 1911 was 11,679, as the result of the 113 specifications were filed. The of which 9,113 specifications were filed. The number of patents in force at the end of 1911 was 2,917. Only a small proportion of the applications—some 60 or 70 a year—came during the decade from Indians. The majority came from persons not resident in India. The range of inventions for which protection was sought was very wide, inventions connected with railways, electrical contrivances, and chemical appliances and preparations being most numerous.

The number of applications to register copyright in designs is relatively very small. There were 87 in 1911. Applications for patents in 1912 numbered 678, of which 437 were accepted.

Main results of working of all Indian Railways treated as one system.

_	TAMEN TOSUILO	0. 1701								18
-	Particulars,	1906.	1907.	1908.	1909.	1910.	1911	1912.	1913-14.	
1	Mileage open at close of the calendar year	29,089	29,957	80,576	81,490	32,099	82,839	33,484	34,652	
2	Total Capital outlay; including ferries and suspense, on open lines (in thousands of rupees) . Rs.	3,71,27,05	3,91,86,93	4,11,91,71	4,29,83,20	4,89,04,78	4,50,06,80	4,65,15,00	4,95,08,64	
8	Gross earnings (in thousands of rupees)	44,13,58	47,30,51	44,82,69	47,06,38	51,14,22	55,27,92	61,65,07	63,58,56	
4	Gross earnings per mile open ;;	15,176	15,794	14,663	14,948	15,936	16,833	18,412	18,350	
5	Gross earnings per mile open per week	292	304	282	287	306	324	354	353	
- 6	Gross earnings per train-mile	8.85	8.79	3 51	3 · 67	8.82	8.87	4.04	4.07	
7	Total working expenses (in thousands of rupees).	22,02,22	24,32,21	27,00,25	26,38,48	27,15,72	28,83,92	80,15,92	32,93,04	,
8	Working expenses per mile open . ;;	7,572	8,121	8,833	8,380	8,462	8,782	9,007	9,504	1
9	Working expenses per train-mile ;;	1.92	1.95	2.11	•06	2.04	2.02	1.98	2.11	
10	Percentage of working expenses to gross earnings . Per cent.	49.89	51.42	60.24	06	53.10	52.17	48.92	51.79	
11	Net earnings (in thousands of . Rs.	22,11,36	22,98,20	17,82,44	20,67,90	23,98,50	26,44,00	81,49,15	30,65,52	ì
12	Net earnings per mile open,	7,604	7,673	5,830	6,568	7,474	8,051	9,405	8,846	
18	Net earnings per train-mile ;,	1.93	1.84	1.40	1.61	1.81	1.85	2.06	1.96	
14	Percentage of net earnings on total capital outlay (item 2) Per cent.	6.98	5.86	4.33	4.81	5.46	5.87	6.77	6.19	
15	Coaching train-miles (in thousands)	87,155	43,258	47,885	48,191	48,598	50,833	52,093	55,972	

	Particulars.	1906.	1907.	1908.	1909.	1910.	1911.	1912.	1913-14.
16	Goods train-miles (in thousands) Train-Miles	41,693	46,869	44,875	44,065	47,690	53,219	59,992	57,933
17	Mixed train-miles (in thousands) ;;	31,014	80,142	29,944	30,859	31,986	33,746	34,940	84,581
18	Total, including miscellaneous train-miles (in thousands),	114,489	124,786	127,881	128,260	132,823	142,944	152,761	156,276
19	Unit-mileage of passengers (in thousands) Unit-miles	10,688,095	11,840,649	12,102,929	12,364,579	13,432,477	14,372,943	15,318,872	16,614,088
20	Freight ton-mileage of goods (in thousands) Ton-miles	9,770,574	10,840,885	9,925,830	9,340,441	12,092,916	13,358,364	15,628,595	15,623,235
21	Average miles a ton of goods was carried Miles	165.97	174.58	159.07	153.37	184.33	187:44	199.15	182-11
22	Average rate charged for carrying a ton of goods one mile Pies	5.42	5.18	5.09	5.78	4.83	4.73	4.66	4.64
	Average mües a passenger was carried.							• !	
23 24 25	1st class Miles 2nd class	100·71 74·47 64·12	100·89 70·91 59·29	100·76 71·26 58·82	103·35 69·24 54·89	99·72 75·07 52·41	111.60 76.33 57.27	106.54 74.77 51.90	112·46 74·58 51·13
26 27 28	3rd class Season and Vendors' tickets "," 'Total	40°36 9°57 89°43	39·65 9·31 38·71	38*65 8*94 87*68	38·74 8·89 87·54	37·12 8·79 86·15	37·72 8·78 36·87	37·81 8·64	37·40 8·71
	Average rate charged per passenger				31 04	20.12	30.87	36.72	86.30
29 30 31	1st class Per mile. 2nd class Ples Intermediate class "	13·16 5·74 8·06	13.06 5.76 3.05	12·95 5·76 8·04	12.89 5.94 3.06	14.55 6.67 3.15	14·29 6·73 8·10	14·25 6·64 8·12	14·48 6·60 8·14
32 33 34	3rd class Season and Vendors' tickets	2·29 1·38 2·46	2·28 1·40 2·44	2·28 1·39 2·44	2·28 1·42 2·43	2·28 1·42 2·45	2·30 1·43 2·47	2·30 1 45 2·45	2·29 1·42 2·45

Mileage of Railway Lines in India open for Traffic at end of Year.

	Mi	leage of	ľ Rai	lway Li	nes in in	ma oben	101 114						
Railways.				1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.	1012.
STATE LINES Agra Delhi Chord* Assam-Bengal* Baran-Kotah* Bengal Central Bengal-Nagpur* Bezwada Extension* Bonpal-Itarsi* Bombay, Baroda & Central India Burma* Awmpore-Burhwal Bhone-Kurnool* Last Indian* Lastern Bengal Londia-Chanda* Ireat Indian Penmsula* Indian Midland* Orhat Provincial State ubbulpore-Gondia* Laika-Simla Lohat-Thal Locknow-Barcilly* Ladras and Southern Mahratta* Lorappur-Dharmapuri* Lysore* Lagpur Chhindwara* Lilgiri* Lorth-Western Lowdh and Mohlikhand	•					1905. 1905. 1905. 1906. 1,690 21 13 544 1,344 1,344 1,344 1,342 2,07 2,039 2,037 2,039 2,037 2,039 2,037 2,039 2,037 2,039 2,037 2,039 2,037 2,039		1907. 126 775 7 1,734 21 13 504 1,475 80 2,208 1,274 2,562 200 90 92 2,647 2,647 101 1,7 3,430 1,23	1908. 126 775 14 1,774 1,774 1,527 8,1274 1,528 1,500 813 1,500 813 1,244 32 250 200 200 137 2,543 119 205 3,403 401 1,223	1900. 126 7771 40 1,791 13 504 1,527 82 2,212 2,212 2,212 2,2546 60 60 61 60 633 22 237 2,546 339 29 3,568 40 1,237	126 7700 40 1,808 211 13 504 1,527 2,213 1,606 80 3275 80 92 2,213 1,606 80 92 2,553 1,508 93 330 93 3,570 40 1,327	1911. 128 790 40 1,852 21 504 1,527 80 82 2,266 1,510 191 2,420 4 1,527 60 62 2,553 190 206 330 51 2,920 3,656 40 1,434 17 73	1012. 126 805 40 1,852 21,752 1,652 1,570 181 1,570 181 2,419 2,763 206 60 62,553 191 192 206 1,552 206 1,552 207 207 207 207 207 207 207 20
alanpur-Deesa* Purulia-Ranchi* kaipur-Dhamtari* kaiputana-Malwa* outh Indian*		••		56 1,649 1,123	56 1,682 1,123	56 1,782 1,123	57 1,774 1,186	72 57 1,778 1,207	72 57 1,778 1,323	73 57 1,778 1,323	73 57 1,778 1,323	57 1,778 1,323	57 1,323 16
outhern Shan States.	::		::	50 517	 50 535	50 565	50 614	50 764	50 775	50 775	776 25	50 769 25	50 792 25

^{*} Worked by a Company. † Amalgamated with Eastern Bengal Railway.

\$\frac{1}{2}\$ Now worked by Great Indian Peninsula Railway.

\$\frac{1}{2}\$ Amalgamated with Bombay, Baroda and Central India Railway.

Railways.	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.	1912.
ASSISTED COMPANIES.										
Ahmedabad-Dholka	33	33	33	33	33	33	33	33	33	33
Ahmedabad-Parantij	55	55	55	. 55	55	55	55	55	89	89
Arroh Casanam Tield			•••	28	28	28	28	54	54	54
Dalehtiannun Talan Tinta		''18	18	18	18	18	28	28	61	61
Repeat Desimbet Timbé			26	26	26	26	28 35		33	33
Barsi Light	22	22	28	79	70	79	79	51 79	51	51
Bengal and North Western	831	871	901	932	1,015	1,017	1.092	1,117	116 1,176	116
Bengal Dooars	153	153	153	153	153	153	153	153	1,170	1,177 153
Bezwada-Masulipatam						49	52	52	52	52
Champaner-Shivraipur Light		l I		:: .			"	. –	20	20
Darjeeling-Himalayan	51	51	51	51	51	51	51	51	51	51
Delhi-Umbalia-Kalka	162	. 162	162	162	162	162	162	192	192	192
Deoghur ·	5	5	5	5	5	105	105	5	†	†
Dibru-Sadiya	78	78	. 78	78	78	78	78	86	86	86
Hardwar-Dehra	32	32	` 32	` 32	32	32	32	32	32	32
Howrah-Amta	29	37	37	37	37	44	44	. 44	44	44
Howrah-Sheakhala	20	20	20	20	20	20	20	20	20	20
Jullundar Doab Matheran		•••	• •	••	• • •	•••				28
Winner Tibes Times.		••	•••	. •• 1	13	13	13	13	13	13
Miristin Whee Whades	•• ••	• • •	•••	••	•••	••	50	50	50	50
Williams Township Township Township	53	51	51			••	••	••		50
	10	40	40	58	54	54	54	55	55	55
	40		***	40	40	40	40	40	40	40
Rohilkhand and Kumaon	54	54	54	118	171	203	202	202	225	256
Shahdara (Delhi) Saharanpur Light		J	J	79	93	93	93	93	93	93
South Behar Southern Punjab	79	79	79	79	79	79	79	. 79	79	79
Sutley Valley	425	425	502	580	575	575	575	576	576	576
Inniore District Descript		''99	99	*:		!	••	209	209	209
Tanti Valley	11 765	155	155	103	103	103	103	103	103	103
Tarkessur	1 00	22	22	155	155	155	155	155	155	155
Tezpur-Ralinara	90	20	20	22 20	22	22	22	22	22	22
Thaton-Duyinzalk Light	: 20	8	8	20 8	20	20	20	20	20	20
m. 4-1	2,444	2,490	2,629	2,887						
Total	2,444	2,400	0.029	Z,887	3,117	3,207	8,353	3,669	3,903	4,013

[·] Worked by a Company.

[†] Amalgamated with East Indian Railway.

Mileage of Railway Lines in India open for Traffic-contd.

			144	upu	Or Music			_							۱-
]	Railway	5.		•	1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.	1912.	
UNASSIS Dehri-Rohtas Light Jagadhri Light Ledo and Tikak Mar Madaya Light Tarakeshwar-Magra l	gherita (Colliery	•••	::		 9 83		 9 83	9	9	 6 33	 6 33	24 3 6	24 3 6 8 33	
		Total			42	42	42	42	42	42	39	39	66	72	
Bhavnagar-Gondal-Ju Bhavnagar Bhopal-Ujain* Bina-Goona-Baran* Birur-Shimoga* Cooch-Behar Coutch Dholpur-Bari Dhrangadra Gaekwar's Dabhol* Gaekwar's Mehsana* Gondal-Porbandar Gwallor Light* Hindupur* Hingoli Branch* Hyderabad-Godavarl Jaipur* Jammagar Jammagar Jeannagar Jammagar Jeannagar	Porbandar			334 44 113 1146 38 34 21 90 93 51 391 16 54 46 700	384 113 146 38 34 34 21 95 93 391 16 54 46 700	334 144 113 146 38 33 12 21 93 184 51 391 46 709	334 144 113 146 38 34 12 21 93 184 51 32 16 54 709	334 113 146 38 34 12 12 12 12 13 184 51 391 73 16 54 46 709	388 34 113 146 38 34 36 21 190 21 130 301 51 301 73 16 54 46 709	338 344 113 146 38 34 34 34 138 20 21 94 138 250 61 73 16 54 46 676	374 44 113 146 38 33 37 20 21 94 138 250 51 391 73 16 54 46 881	168† 44 113 146 38 33 37 20 21 94 138 148† 250 51 391 73 16 54 48 910	173 44 113 146 38 37 20 21 118 138 250 50 51 73 16 51 73 16 54 46 996		

Worked by a Company.

Mileage of Railway	Lines in	India open for	has to silter .	of Voorconcluded

Railw	ays.				1903.	1904.	1905.	1906.	1907.	1908.	1909.	1910.	1911.	1912.
NATIVE STATE L	ines.	-contd	•											
Junagad	••				!			l		•			89†	101
Khanpur-Chachran*	• •	• •	• •	••	••	••	••					::	22	22
Kolar Gold Fields*	••	• •	••	• •	10	10	10	10	10	10	10	10	10	10
Kolahpur*	• •	• •	• •	• •	29	29	29	29	29	29	29	29	29	29
Kosamba-Zankhvav	••	• •	••	••			••	••,	••	••		4.		26
Ludhlana-Dhuri-Jakhal	• •	• •	• •	••	79	79	79	79	79	79	79	79	79	79
Morvi	• •	• •	••	• •	94	94	94	94	94	93	93	93	93	93
Mourbhanj*	••	••	••	• •	••	••	32	32	32	32	32	32	32	32
Mysore-Nanjangud*					16	16	16	16	16	16	10	- 10		
Nagda-Ujjain*	::	••	••	•••	34	34	34	34	34	34	16	16	16	16
Nizam'a &		••	••		. 330	330	330	330	330	330	34	34	34	34
Parlakimedi Light	::	••	••	••	25	25	25	25	25	25	830	330	330	330
Petlad-Cambay*		••	••	••	32	32	32	34	25 34	25 34	25	25	25	25
Pipar Road-Bahvi Light	• •	••	••	••						34	34	34	34	34
riput mad-ballit Eight	••	••	••	•••	···	••	••	••	••	••	•••	19	19	25
Rajpipla*					37	37	37	87	37	37	37	37	37	37
Rajpura-Bhatinda					107	107	107	107	107	107	107	107	107	
Sangli*							••		5	5	5	5		108
Shoranur-Cochin*				••	65	65	65	65	65	65	65	65	5 65	5 65
Finnevelly-Quilon*		••	••			58	58	58	58	58	58	58	58	58
Udaipur-Chitorgarh					67	67	67	67	67	67	67	67		
Vijapur-Kalol-Kadi*		• •	••	••	42	42	42	42	42	42	42	42	. 67	67
		-									42	42	42	46
			Total	••	3,265	3,385	3,468	8,471	3,517	3,620	3,742	3,852	8,974	4,198
FOREIGN LI	NES.													
Karalkkal-Peralam*	••				15	15	15	15	15	15		ابدا		
Pondicherry*	••		••		8	8	- 8	8	8	19	15	15	15	15
West of India Portuguese*	••	••	••		51	51	51	51	51	51	8 51	8	_8	_8
•					 -				0.1	- 01	91	51	51	51
			Total		74	74	74	74	74	74	74	74	74	74
												74	74	74
		Gran	d Total		26,956	27,565	28,295	29,097	30,010	30,576	31,490	\$2,099	32,839	33,484

[·] Worked by a Company.

[†] Formerly worked as part of the Bhavnagar-Gondal-Junagad-Porbandar Railway.

Irrigation.

In the West irrigation is a rare luxury, designed where it exists to increase the productivity of a soil sure of a certain crop under a loan funds as productive public works. parts of the East, and especially in India, it is a necessity to existence. For in India there are large tracts, such as the deserts of Sind and the South-West Punjab, which are practically rain-less; there are others, such as the Deccan plateau, where cultivation is exceedingly precarious, owing to the irregularity of the rainfall and the long intervals when the crops may be exposed to a blazing sun and a dessicating wind; there are some crops, like rice and sugar-cane, which, except in a few highly favoured districts, can only be matured by the aid of irrigation. There are great areas where a single crop, which is called the kharif, or rain crop, can in normal years be raised by the unassisted rainfall, but where the second crop, the rabi or cold weather crop, is largely dependent on irrigation. Inas-much as in India sixty-five per cent. of the population is still dependent upon agriculture for the means of livelihood, this brief summary indi-cates the enormous importance of irrigation to the community.

Its Early History.

It is natural, in such conditions, that irrigation in India should have been practiced from time immemorial. In the history and imagery of the East, there is no figure more familiar than the well, with primitive means for raising the water, well, with primitive means for maning are water, followed to-day much as they were in Bible days. In the early records of the peoples of India, dating back to many years before the Christian era, there are frequent references to the practice of irrigation. Wells have been in use from time immemorial; most of the in-numerable tanks in Southern India have been in use for many generations; the practice of drawing off the flood waters of the Indus and its tributaries by means of small inundation canals has been followed from a very early date; and in the submontane districts of Northern India are still to be found the remains of ancient irrigation channels, which have been buried for centuries in the undergrowth of the forests. But in the direction of constructing large and scientific works for the utilisation of the surplus waters of the great river little was done before the advent of British rule, and they are comparatively of recent date.

The State Intervenes.

Irrigation works in India may be divided into three main heads—wells, tanks and canals. The greatest and the most impressive are the canals. and these may arrest attention first, because they constitute one of the most enduring monuments to British rule. They have in British India been constructed by direct State agency. In the early days of modern irrigation certain works in the Madras Presidency were carried out by a guaranteed company, and the Orissa canal project was commenced through the same

The British Inheritance.

The British Government in India inherited a few major irrigation works. One of these was the Grand Anicut—the local term for barrage stretching across the width of the Cauvery River in Madras. In the Punjab there were a few canals, chiefly inundation—that is above the normal bed of the river and fed from the flood current-constructed by the Muhammedan and Sikh rulers, and owing to its proximity to Delhi the waters of the Jumna were brought to the neighbourhood of the city by the Mughals. It is doubtful if these works ever irrigated any considerable areas or conferred much benefit on the people, but they suggested the model on which the British engineers worked. In Southern India Sir Arthur Cotton constructed the upper Anicut across the Coleroon River, so as to secure the full level required for the utilisation of the Grand Anicut across the Cauvery. He also designed the works which, constructed and improved at an outlay of three crores, irrigate more than two million acres in the Godaveri and Kistna deltas. In Northern India Sir Probyn Cautley constructed the great Ganges Canal, which takes off from the river near Hardwar, and which in magnitude and boldness of design has not been surpassed by any irrigation work in India or elsewhere. In this way were laid the foundations of the irrigation system in India. The work was gradually pushed for ward. In Northern India a great system of canals was constructed, chiefly in the Punjab and the United Provinces. Some of these, like the great Chenab Canal, ought to be classed amongst the wonders of the world. It irrigates nearly two million acres, or about two-fifths of the cultivable area in Egypt, with an ordinary discharge of eleven thousand cubic feet per second, or about six times that of the Thames at Teddington. The Chenab and the Jhelum Canals brought under irrigation great areas of Government waste, and thereby allowed the system of State colonisation, which relieved the congestion on the older villages of the Puniab, and established colonies of over one million of and established colonies of over one miniol of people on what had been the desolate abode of a handful of nomads. In the Bombay Deccan a few protective works were constructed, like Lake Fife and Lake Whiting, drawing their supplies from the Ghats and spilling them over the arid tracts of the Deccan. In Madras there was completed the boldest and most imaginative irrigation work in the world. but the device of irrigation work in the world; by the device of constructing a reservoir at Periyar, on the outer slopes of the ghats, and carrying the water by means of a tunnel through the intervening hill the Madras Government turned the river back on its watershed and poured its waters over fertile lands starved by want of moisture. But these Deccan works did not pay. The cultivators would not use the water in years of good rainfall, and there was not enough to go far in seasons of drought; the inevitable result of such canal project was commenced through the same agency. Both Companies fell into difficulties, and the system into disfavour; during the conditions was to concentrate attention upon Viceroyalty of Lord Lawrence it was decided that all irrigation works which promised a Punjab, and to leave protective irrigation to reasonable return on the capital expenditure wilt for want of funds.

The Irrigation Commission.

In order to substitute policy for spasmodic effort, the Irrigation commission was appointed ov Lord Curzon's Government in 1901. by Lord Curzon's Government in 1901. In ade a detailed survey of the conditions of the country, and produced the report which is the bundation of Indian Irrigation policy to-day. The figures compiled by the Commission illustate the progress which had been made up to that period. They showed that out of an area 1902 will be a considered to the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the conditions of the control of the conditions o oi 226 million acres annually under crop in the irrigating provinces of British India, in round numbers 44 millions acres, or 19½ per cent. were ordinarily irrigated. Of the total area irrigated 18! million acres or 42 per cent was watered by State works (canals and tanks), and 25½ million acres, or 58 per cent, from private works, of

which rather more than one half was from wells During the previous quarter of a century the area irrigated by Government works had been increased by 8 million acres, or by eighty per cent, and the Commission estimated that during the same period the area under private irrigation had increased by at least three million acres or a total addition to the irrigated area in British India of 11 million acres or 33 per cent. Including the Native States the area under irrigation annually within the British Empire was placed at 53 million acres (19 million from canals, 16 million from wells, 10 million from tanks, and 8 million from other sources). The financial results for works of all classes are shown in the following table:-

Class of Work.	Capital Outlay to End of 1900-01. Lakhs of Rupees.	Interest charges at 4 per cent on Capital Outlay. Lakhs of Rupees.	Net Revenue in 1900-01, Lakhs of Rupees	Net Revenue less charges for Interest. Lakhs of Rupces.
Major Works Minor Works for which capital accounts have been kept.	36,63.72 320.04	146.55 12.80	259.70 19.18	113.15 6.38
Other Minor Works			87.87	87.87
Total	39,83.76	159.35	366.75	207.40

In round numbers the State irrigation works then yielded a net revenue after meeting all charges, including interest, of about two crores of rupees and irrigated annually over nineteen million acres.

The Commission's Programme.

The Commission reported that the field for the construction of new works of any magnitude on construction of new works of any magnitude on which the net revenue would exceed the interest charges was limited, being restricted to the Punjab, Sind and parts of Madras—tracts for the most part not liable to famine. They recommended that works of this class should be constructed as fast as possible, not only because they would be profitable investments, but also becomes they would increase the food support because they would increase the food supply of the country. Then addressing themselves to the country. Then addressing themselves to the question of famine protection, they worked out a very interesting equation. Taking the district of Sholapur, in the Bombay Deccan, perhaps the most famine susceptible district in India, they calculated that the cost of famine relief in it was 5 lakhs of rupees a year. From this deduction, and making allowance for the advantage of famine avoidance as compared with famine relief, they said that the State was justified in protecting the land in such a district at a cost of 221 rupees per acre. For the general cost of 221 rupees per acre. For the general protection of the Bombay Decean they recommended canals fed from storage lakes in the Ghats, where the rainfall has never been known to fail even in the driest years. For Madras they recommended the investigation of the old Tungabladra project, and of a scheme for storage work on the Kistna. They proposed that Government should undertake the construction of protective works for the rice-growing districts of the Central Provinces and the Ken Canal project in Bundelkhand. The Commis-Canal project in Bundelkhand. The Commission further sketched out a rough programme of new major works to be constructed in different proved far more effective means of taming the

parts of India, which would cost not less than 44 crores of rupees and would result in an increase of 6,500,000 acres to the irrigated area. They estimated that the construction of these works would impose a permanent yearly burden of nearly 74 lakhs on the State, through the excess of interest charges on capital cost over the net revenue produced from the works. Against this would have to be set the reduction in the cost of future famines resulting from the construction of the works, which the Commission put at 31 lakhs per annum. The balance of Al lakes would represent the net annual cost of the works to the State, or the price to be paid for the protection from famine which the works would afford, and for all other indirect advantages which might be attributed to them.

The New Policy.

The principal effect of the Irrigation Commis-The principal effect of the Irrigation Communication's report was to substitute policy for spasmodic effort, and the progress since made has been remarkable. On the North-West Frontier there was completed the Upper Swat Canal; which taking out of the Swat River at Amanatan research to Makkend reportation through dara passes the Malakand mountains through a tunnel, rushes down the steep torrent bed of the Dargai Valley, and now irrigates the fertile land at the foot of the hills. The estimated cost was Rs. 182 lakhs (£1.216 millions) the annual irrigation 381,562 acres, and the return on capital cost 8 per cent The value of this canal is not to be measured in figures. The region where the drill and the hammer pounded the rocks was ablaze with tribal warfare so recently as 1897, and the canal and the locomotive have

fractious tribesmen than shrapnel and bullets. Other works are designed in the North-West and in Baluchistan, but until recently the whole labour force was absorbed by the Upper Swat Canal

The New Works.

The most dramatic irrigation work in the country is now approaching completion in the Punjab. It is commonly called the Triple Project. The problem which faced the engineers was one of unusual complexity. The whole cold weather flow of the Chenab and the Ravi is absorbed by existing works. But in the north absorbed by existing works. But in the north is the Jhelum, whose cold weather flow was running largely to waste. The question was how to bring the surplus waters of the Jhelum to the desolate area of Crown waste called the Lower Bari Doab. The first suggestion was to carry the water direct, but this was financially impracticable. The waters of the Jhelum are now taken off and after enough has been utilised to irrigate a new acreage of 345,000 on the Upper Shelum, the surplus is carried to the Chenab and discharged into that river above the existing weir at Khanki, near Wazirabad. This allows the use of an equivalent amount of the cold weather flow of the Chenab for other purposes. It is drawn off at Merala, and part of it used to water the 648,000 acres commanded by the new Upper Chenab Canal. The surplus is takem off by another canal, it crosses the Ravi River by what is termed a "level crossing" at Bulloki, and is then poured over the Lower Bari Doab, where it will irrigate a further 878,000 acres. The effect of this great work, which is now approach-ing completion, will be to trigate an area of 1,371,235 acres a year, at a capital cost of £0,912,132, to produce a net revenue of £518,550 and to return 75 per cent. on the capital outlay.

United Provinces and Bombay. In the United Provinces the last decade has been one of unparalled activity, though there is no single work to challenge the Triple Project; a great system of productive works south of the Jumna and Ganges will thoroughly protect a trom the commencement of British rule up to very large part of the area which is subject to famine and scarcity. In the Bombay Deccan a loginning has been made with the chain of the amounts in millions of pounds sterling.

works, fed from reservoirs in the Ghats, which will break the back of any future drought. The Godavari Canals, costing Rs. 95 lakhs, and irrigating 69,019 acres are nearly finished; the Prayara Canal and the Nira Right Bank Canal costing respectively Rs. 86 lakhs, and Rs. 25' lakhs, and irrigating 49,440, and 190,000 acres, are under construction. These works are sittated in parts of the Deccan which are liable to scarcity and famine and are the most important protective works in India. In the Central Proprotective works in India. In the Central Provinces productive and protective works, chiedy comprising large canals with storage from the Mahanadi, Wainganga and Tandula rivers with various tank projects, have been sanctioned, estimated to cost Rs. 395 lakhs. In Madras the work has been chiefly investigation and prefaration. The projects will add 20 per cent. to the present irrigated area in the Presidency. Beautiful Relation 18 Payred the Thiesi Cent in Relation Relation Relation 18 Payred the Thiesi Cent in Relation Relation Relations. Bengal the Tribeni Canal in Behar costing Rs. 75 neighbor of the fried of the state of the st value.

Results of the New Policy.

We can now turn to the results of this activity. The following table shows the developments effected on works now in operation in the twenty-four years ending with the triennium 1908-11. The percentages of the advancements in this triennium over the figures of 1887-90 are :- Capital outlay 55: irrigated area 68: net revenue 123: return on capital outlay 43: and on net profit 200.

The average capital outlay for the triennium 1908-11 was £31,491,253. After meeting all the charges for maintaining and operating the works, and also all interest charges, the net profit which accrued to Government during the 235,087,835, and this more than repaid the entire capital outlay on the works in operation from the commencement of British rule up to the end of the period mentioned. In the following the think the commence of the period capital outlay on the send of the period mentioned. In the following the capital capitals are capital to the capital capitals are capitals.

Trien	nium.	Capital Outlay.	Area.	Value of Crops.	Direct Profit to Government.	Percentage of Net Revenue on Capital Outlay.		
1908-11 1905-08 1902-05 1899-02 1896-99 1893-96 1890-93		31.49 30.32 28.78 26.66 25.01 22.94 21.62	22.10 21.88 20.09 19.06 17.55 14.49 13.85	51,74 48,25 43,66 39,67 37,40 29,88 26,87	2.28 2.03 1.68 1.55 1.53 1.03 0.83	10.76 10.44 9.71 9.68 10.09 8.25 7.60		

These figures take no account of the indirect advantages of irrigation. They are:—The produce of the country is greatly increased; the railway recepits are enhanced; famine expenditure is diminished and misery and economic disturbances reduced. Nor do they take account of the progress made in Native States, some of which, like Gwalior and Mysore, have shown conspicuous liberality.

Future of Irrigation.

It is sometimes asserted, by those who take only a superficial view of Indian irrigation that omy a superness view of indual irrigation than we are approaching the end of the programme of productive works. There could be no greater fallacy. The scheme of great works is still vast. There is now before the Secretary of State a project for the improvement of irrigation in Sind, by the construction of a well at Sukker and the digging of a series of main canals the substitution of perennial for inundation canals, and flow instead of lift irrigation. The cost of this is estimated at Rs. 781 lakhs (£5.211 millions). This scheme is estimated to confer the benefits of assured irrigation on 1,347,347 acres, which now receive a precarious supply, and to add 588,703 acres of new irrigation. return on capital expenditure estimated at 5.10 per cent. with an enhanced land revenue, and 4.17 per cent. if the land revenue is not enhanced. The Lower Sutlej Canal, in the Punjab, which will use the Beas water, now under investigation, will irrigate a million and a half acres. The great Sarda-Ganges-Jamna feeder, in the Punjab and the United Provinces, now under investigation, would cost £4,500,000, return 7 per cent. on the capital, and benefit twenty-five districts and three Native States. If, after the construction of the Sukker Barrage there are found to be surplus waters in the Indus, the Titanic Sind-Sagar scheme may become practicable. The scope for irrigation in India is apparent from the fact that in addition to works under construction or sanctioned, there are under consideration or investigation estimated to cost £271 millions.

Economic Changes.

Nor does this estimate represent anything like the full possibilities of irrigation in India. The country is undergoing a great economic revolution. The rise in the prices of produce, the increased economic strength of the people, are making profitable works which a decade ago were economically impracticable. This process will continue. The indirect benefits of irriga-tion are more fully realised. In no case is this more marked than in the railway receipts. The Chenab and the Jhelum canals have been the rincipal factors in converting the North-Western Railway from a drain on the Exchequer into a source of profit. The accumulation of capital, the spread of the co-operative credit movement, the increasing use of power, such as oil engines working pumps and cheap electricity from hydro-electric projects, will bring under cultivation millions of acres of fallow and waste. It may be said with confidence that for a generation at least the demands for irrigation in India will more than absorb the money-producing power of the Government.

Irrigation Dues.

The charges for irrigation, whether taken in the form of enhanced land revenue or of occu-

WELLS AND TANKS.

So far we have dealt only with the great irri-gation schemes. They are essentially exotic, Although the huge areas brought under cultiva-the products of British rule; the real castern thon by a single canal scheme tend to reduce the instrument is the well. The most recent figures give thirty per cent.of the irrigated area in India as being under wells. Moreover the well is an extremely efficient instrument of irrigation. When the cultivator has to raise every drop of water which he uses from a varying depth, he is more careful in the use of it; well water exerts at least three times as much duty as exerts at least three times as much duty as canal water. Again, owing to the cost of lifting, it is generally used for high grade crops. It is its generally used for high grade crops. It is extincted that well-irrigated lands produce at them allowed to fall into decay. These are

water required for it and the time when it is required, the quality of the soil, the intensity or constancy of the demand, and the value of irrigation in increasing the outturn. In the immediate vicinity of Poona a rate of Rs. 50 an acre is paid for sugarcane. This is quite an exceptional rate, it obtains over only a limited area, and is made practicable only because the cultivators, by high manuring, can raise a crop valued at nearly eight-hundred rupees an acre. on other parts of the Mutha canal the rate varies from Rs. 40 to Rs. 12, and on other canals in the Bombay Deccan from Rs. 25 to Rs. 10 per acre. In Madras the maximum rate for sugarcane is Rs. 10, and in the Punjab it does not exceed Rs. 8-8. The rate charged for rice varies in Madras from Rs. 5 to 2, and in Bengal from Rs. 2-8 to Rs. 1-8 per acre. In both these provinces irrigation is practically confined to rice; in the Punjab, where this crop is not extensively grown, the rate varies from Rs. 7 to Rs. 3-4 per acre. The ordinary rate in the Punjab for wheat, which is the principal crop, varies from Rs. 4-4 to Rs. 3-12, and for fodder crops from Rs. 3 to 2-8 per acre. The average rate realised from major works for irrigation of all kinds is about Rs. 3-8 per acre, the provinciat averages being Rs. 1-9 in Sind and Bengal; Rs. 3-4 in the Punjab; Rs. 4-8 in Madras, the United Provinces and the Bombay pastures, the United Frovinces and the Bombay Decean. The charges for irrigation may be taken as varying from 10 to 12 per cent of the value of the crop, except in Bengal and the Bombay Decean, where the average is little more than six per cent.

Canals and Navigation.

Twenty years ago a great deal was heard about the desirability of constructing navigation canals, either in conjunction with irrigation, or for transport, pure and simple. The idea is now exploded. It received a certain stimulus from the unprofitable character of Indian railways, and the handsome earnings of the irrigation works; it received its quietus when the railways turned the corner. Broadly speaking it may be said that navigation and irrigation rights clash; navigation is not only costly, but it cannot be maintained during the season of short supply, except to the detriment of Irriga-tion. Outside the deltaic tracts of Bengal, Orissa, Madras and Sind, navigable canals will never be of much use for the purpose of inland navigation. There is however considerable scope for connecting canals to improve the facilities for navigation on the great river system piers' and owners' rates, vary very much, of Eastern Bengal. This is a question which is depending on the kind of crop, the quantity of now engaging the attention of the Government.

doing by a single canal scheme tend to reduce the disproportion between the two systems, it must be remembered that the spread of canals increases the possibilities of well irrigation by adding, through seepage, to the store of subsoli water and raising the level.

Varieties of Wells.

temporary or kacha wells or they may be lined with timber, or with brick or stone. They vary from the kacha well costing a few rupees, vary from the satish well, which will run into thou-sands, or in the sandy wastes of Bikanir, where the water level is three hundred feet below the surface, to still more. The means of raising the water vary in equal degree. There of raising the where vary need that organize a little is the picottah, or weighted lever, raising a bucket at the end of a pivoted pole, just as is done on the banks of the Nile. This is rarely used for lifts beyond fifteen feet. For greater lifts bullock power is invariably used. This is into bullock power is invariant used. This is generally harnessed to the mot, or leather bag, which is passed over a pulley overhanging the well, then raised by bullocks who walk down a ramp of a length approximating to the depth of the well. Sometimes the mot is just a leather bag, more often it is a self-acting arrangement, which discharges the water into a sump automatically on reaching the surface. By this means from thirty to forty gallons of water are raised at a time, and in its simplicity, and the ease with which the apparatus can be constructed and repaired by village labour, the mot is unsurpassed in efficiency. There is also the Persian wheel, an endless chain of earthenware pots running round a wheel. Recently attempts have been made, particularly in Madras, to substitute mechanical power, furnished by oil engines, for the bullock. This has been found economical where the water supply is sufficiently large, especially where two or there wells can be linked. Government have systematically encouraged well irrigation by advancing funds for the purpose and exempting wellwatered lands from extra assessment due to improvement. These advances, termed takavi, are freely made

from enhanced assessment on that account. In other provinces the exemption lasts for specific periods, the term generally being long enough to recoup the owner the capital sunk.

Tanks.

Next to the well, the indigenous instrument of irrigation is the tank. The village or the roadside tank is one of the most conspicuous features in the Indian scene. The Indian tank reatures in the Indian scene. The Indian tank may be any size. It may vary from a great work like Lakes Fife and Whiting in the Bombay Presidency or the Periyar Lake in Travancore, holding up from four to seven billion cubic feet of water, and spreading their waters through great chains of canal, to the little willowed by the control of the control little village tank irrigating ten acres. They date back to a very early stage in Indian civilisation. Some of these works in Madrss are of great size, holding from three to four billion cubic feet, with water spreads of nine miles. The inscriptions of two large tanks in the Chingleput district of Madras, which still irri-gate from two to four thousand acres are said. to be over 1,100 years old. Tank irrigation is practically unknown in the Punjab and in Sind, but it is found in some form or other in all other provinces, including Burma, and finds its highest development in Madras. In the ryotwari tracts of Bombay and Madras all but the smallest tanks are controlled by Government. In the zemindari tracts only the large tanks are State works. According to the latest figures the area irrigated from tanks is about eight million acres, but in many cases the supply is extremely precarious. So far from tanks being a refuge in famine they are often quite useless inasmuch as the rainfall does not suffice to fill to approved applicants, the general rate of the rest being 64 per cent. In Madras and Bombay ryots who construct wells, or other works of agricultural improvement, are exempt

CANAL COLONIES.

The canal colonies represent the extreme ledge of agriculture, assimilated the practices case of improvement in agricultural conditions of their new neighbours with extraordinary case of improvement in agricultural concurons effected by irrigation. In the Punjab uplands now watered by the Lower Chenab and Lower Jhelum Canals, irrigation has completely altered the face of the country, so that it supports in unparalleled prosperity a population numbering a hundred to every one of its former constructions designed by the land core poverty-stricken denizens, while land once refused as a gift sells with ease at £15 an sere. refused as a gift sells with ease at £15 an ocre. The largest of the canal colonies, the Chenab Colony, on the Lower Chenab Canal, lies in the Rechna Doab, between the Chenab and Ravi Rivers, and has a total area of some 3,900 square miles. This area was until 1892 sparsely inhabited by nomad pastoral tribes, whose total numbers were estimated at less than 70,000. Cultivation was rendered possible care the construction of the Chenab Canal only by the construction of the Chenab Canal. As fast as the canal and its distributaries were constructed, the land (which was waste and constructed, the land (which was waste and owned by Government) was allotted to various classes of grantees, the bulk of the grants being made to immigrant peasants, including men from the best agricultural districts in the Province. Since its foundation the colony has enjoyed remarkable prosperity. The no-

of their new neighbours with extraordinary success, and the whole colony is now as well cultivated as almost any part of India. The work of colonisation began in 1892; by 1901 the population had increased to over 791,000 and at the end of 1901-02 some 2,470 square miles out of a total allottable area of about 2,660 square miles had been allotted. In September 1912 the allottable area was return-Septemper 1912 the allottable area was returned at 3,040 square miles, and the area actually allotted at 2,870 square miles, while the total population had risen to over 1,111,000. The export of wheat from the Lyallpur district in the last year of the decade reached the total of 150,000 tone.

The Jhelum Canal Colony, on the Lower Jhelum Canal, occupies some 900 square miles of State land in the Shahpur District, and is a more recent development. Colonisation began in 1902, and was conducted on lines similar to those adopted in the Chenab Colony. but a large proportion of the grants were made on the condition that a suitable mare should be maintained for breeding purposes. Be-tween 1906, when an informal census was taken, and 1911 the population of the colony proper increased from 73,734 to 161,806. Up mads to whom a large portion of the land was proper increased from 73,734 to 101,806. Up allotted, though without any previous know- to September 1912 some 630 square miles had

been allotted out of an allottable area of about [780 square miles.

The Chunian Colony, a much smaller colony on the Bari Doab Canal in the Lahore District, dating from 1897, was returned in 1912 as having a total allottable area of less than 130 square miles, of which practically the whole had been allotted. The population was 16,458 in 1901 and 43,494 in 1911.

Other old canal Colonies in the Punjab such as the Sohag-Para Colony in the Montgomery district, and the Sidhnai Colony in the Mooltan district, had by the beginning of the period under review reached their full development and become merged in the surrounding districts. Before the end of the decade colonisation in the newer colonies also had been practically completed, and their administra-

tion had been almost completely assimilated to that of ordinary districts.

Colonisation has also been carried out on a considerable scale since 1901 on the Jamrao. Nasrat, and Dad canals in Sind.

Schemes for colonisation on the canals included in the Punjab Triple Canal Project are being prepared.

A concession of some importance was made to peasant colonists in the Punjab in 1910, when it was decided to allow them to purchase proprietary rights, on very favourable terms, in all colonies except the Jhelum Colony. The concession was made possible by the passing of the Alienation of Land Act, which secures in another way the result that the former restriction of the peasant's right to an inalienable right of occupancy was intended to achieve.

PRESENT POSITION OF IRRIGATION.

Towards this amounted to 16,147,799 acres. total the Punjab canals contributed nearly 7½ million acres, Madras 3½, the United Provinces 21 and Sind 1 million acres. In Bihar and Orissa an area of 930,000 acres was attained. The return on capital is highest in the Punjab, where the canals yielded 16.48 per cent. The next province in this respect is Madras, where a return of 14.05 per cent, was realised. In the United Provinces and Sind the returns realised were 6.83 per cent, and 4.50 per cent, respectively. The return on productive works as a whole was 9.53 per cent, on the capital outlay.

The importance of productive works may be gauged roughly by the value of the crops which are produced by their agency. In the year under review the estimated value of the crops irrigated by works of this class amounted to 67 crores of rupees, or about 20 crores more than the capital expenditure incurred on them.

Protective Works.—There were in opera-tion in the year 30 protective works which together irrigated a total of 403,200 acres. The most important works are the Ramtek reservoir in the Central Provinces, the Betwa and Ken canals in the United Provinces, the Rushikulya in Madras, and the Nira and Godavari systems in the Bombay Presidency. A number of small but interesting tank works are to be found in the Central Provinces. were sanctioned as experimental works in accordance with the recommendations of the Irrigation Commission, in order to test how far the people were willing to resort to irrigation for the maturing of their crops and what water rates they were prepared to pay. The results obtained are gratifying and show that the people are beginning to realise the great advantages of irrigation.

Minor Works.—There were 109 works so carsed in 1912-13, the majority of which are in Bombay and Madras. Ten are purely navigation works. The net revenue paid by works of this category amounted to Rs. 30,01,539 (excluding navigation canals) or a return of Canal which was opened at the beginning of 7-61 per cent, on the capital outlay against the year gave most satisfactory results during 7-71 per cent, in the previous year. Nearly the first year of its working, the area irrigated

During the year 1912-13 the total area irri- all the minor works in Sind return exception-gated by all the productive public works in- ally high percentages; but as some large pro-cluding branches in Native States of the Punjab, jects with which it is intended to amalgamate many existing works are under consideration, their transfer to the major works class has been postponed for the present.

> Excluding the area shown under Burma viz., 480,923 acres which is not under actual irrigation, but represents the area of cultivation on lands reclaimed by river flood embankments, the area irrigated by minor irrigation works during 1912-13 was 1,521,020 acres against 1,344,675 acres in the previous year.

There are numerous works which maintain only revenue accounts. They are credited with a share of the land revenue depending on their maintenance and are debited with all expenditure incurred on construction extenexpendence meaned on consideration extension improvements and maintenance. During the year reviewed these works irrigated an area of 2½ million acres and returned a net revenue of Rs. 34,89,458.

Practically all the works of the class which have neither capital nor revenue accounts are situated in the Madras Presidency. They consist of some 37,000 tanks and irrigation channels mainly the former, the improvements and repairs of which are executed by the Public Works Department, or, in the case of the smaller works, by civil officers. The areas irrigated by works of this class in 1912-1913 aggregated 3,421,917 acres. The area irrigated in 1911-12 was 3,230,191 acres.

New Works.—The Lower Chenab Canal continues to show a record of remarkable progress. It served 2,240,203 acres and carned a gross revenue of Rs. 1462 lakhs. The net revenue realised from this canal was equivalent to 39 18 per cent. on the capital outlay.

There is a noticeable improvement in the return realised from the Lower Jucium Canal. the net revenue on which system has gone up by almost 90 per cent. This is due principally to an enhancement of land revenue and malikhana.

During the year excellent progress was made with the triple project. The Upper Chenab Canal which was opened at the beginning of the year gave most satisfactory results during

being 116,162 acres against 40,000 anticipated in the project forecast. The Lower Barl Doab was opened just after the close of the year reviewed and does not therefore appear among the works in operation. Neither the Upper Chenab Canal nor the Lower Bari Doab Canal can work to full advantage until the Upper Jhelum canal has been completed, as they cannot get a cold weather supply until the surplus water of the Jhelum river can be made available to augment the supplies of the Chenab viver on which the Upper Chenab and Lower Barl Doab systems are dependent. Every effort is therefore being made to complete the Upper Jhelum canal as soon as possible. It was hoped to open the canal during October 1914, but owing | India,

to serious damage from floods suffered by the head works at Mangla in April last, this hope will not be realised, and it is feared that the will not be realised, and it is reared that the system will not be in operation before the beginning of 1915. Further surveys in con-nection with the Sutiej valley project for the utilisation of the surplus water of the Sutiej river were found necessary and were completed during the year.

Good progress was made during the period, reviewed with the Godavari and Pravara canals two large works of the protective class. A good start was also made with the Nira Right Bank canal project, which on completion will be the largest protective irrigation system in

Results of irrigation works in operation.

The following table summarises the results of irrigation works for all India during 1912-13 in comparison with those of the two previous years :-

Class of work.	Capital out- lay to end of the year on works in operation.	Gross reve- nue during the year.	Net revenue during the year.	Percentage of net revenue of capital outlay to end of year.	Net profit during the year, i.e., net revenue less interest charges,	Area Irrigated.
	Rs.	Rs.	Rs.	Per cent.	Rs.	Acres.
I.—Productive	47,03,47,274	6,43,53,975	4,48,88,565	9.58	2,96,85,59	16,147,799
II.—Protective	6,04,36,601	12,43,758	4,50,302	0.75	-15,09,876	403,200
111Minor works for which capital and revenue accounts are kept (includ- ing works under construction).		52,63,049	28,49,392	4,89	••••	2,001,952
IV.—Minor works for which only revenue accounts are kept.		68,01,346	.84,89,458	. 11	••••	2,540,317
V.—Works for which neither ca- pital nor revenue accounts are kept.		1,06,81,405	60,75,815	••••	••••	8,421,917
Total 1912-18	59,56,13,099	8,83,43,533	5,76,98,032	8.08	••••	24,515,185
Total 1911-12	55,84,69,511	7,97,09,658	5,05,11,524	7.58		23,287,054
Total 1910-11	53,06,04,071	76,71,958	4,68,34,346	7.17		22,519,009

The total area irrigated was 241 milion acres, while the value of the crops raised is roughly estimated at Rs. 83 crores.

Expenditure by the State.

The subjoined table exhibits the outlay incurred by the State during the year 1912-13 on all classes of irrigation works:—

t		_	_					Capital outlay (direct charges).	Minor additions, maintenance, and working expenses (direct charges)
	177	orks un	der con	structi	on.			Rs.	Ra.
Productive		••	• •	•	••		••	1,64,60,023	,,,,,
Protective Minor	•••	••	••	••	••	••		24,17,879	••••
WILLIAM	••	••	••	••	••	••	• •	5,38,088	
					Tota	1		1,94,15,990	ļ
		Worl	k8 in 0;	peration	1.				
Productive	••	••	••	••				48,05,923	1,80,13,108
Protective		• •		••	•••	• •		35,80,960	7,54,911
Minor	••	••	••	• •	••	• •	••	8,39,141	23,21,796
					Tota	.1	···	87,26,024	2,10,89,815
Works under cl	asses IV	and V	7	••	••	••		••••	79,54,861
				G	and To	otal		2,81,42,014	2,90,44,676

Value of the Crops.

A comparison of the acreage of crops matured by means of the Government irrigation systems, with the total area under cultivation in the several provinces, is given below:—

Province.	Net area cropped. Acres.	Area irrigated by Government irrigation works.	Percentage	Capital cost of Government Irrigation works to end of 1912- 13 in lakhs of rupees.	Estimated value of crops raised on areas receiving State irrigation, in lakhs of rupees
Burma Bengal Bihar and Orissa	13,856,000 25,955,000 8,006,000	1,275,000 108,000 971,000	9.2 0.4 12.1	205 227 662	524 59 - 347
United Provinces of Agra and Oudh,	35,460,000	2,698,000	7.6	1,184	1,438
Aimer-Merwara	356,000	24,000	6.8	35	3.071
Punjab North-West Frontier	22,684,000 2,549,000	8,368,000 246,000	34.6 9.6	1,625 63	84
Sind	3,991,000	8,065,000	76.8	816	821
Bombay Deccan Central Provinces (ex-	22,906,000 17,969,000	355,000 78,000	1.5 0.2	438 88	123 14
cluding Berar). Madras Baluchistan	89,120,000 Not known	7,321,000 6,000	18.7	1,081 32	1,831 2
Total	192,852,000	24,515,000	12.4	5,056	8,325

Province.	Name and probable classifi	leation of work.	Estimated or approximate direct cost in lakhs of rupces.	Irrigable area In acres.	Districts benefited.	Principal crops that will be produced.	
ſ	Cauvery reservoir project .	Productive	370	473,000	Tanjore	}	
.	Kistna reservoir project	Do.	800	735,000	Kistna and Guntur		
Madras	Lower Bhavani	Do.	109	109,200	Colmbatore	Rice.	
1	Velgode project	Do.	28	61,000	Kurnool		
	12 smaller schemes	Mainly protec- tive.	344	355,000	Ganjam, Nellore, Kurnool, Coimbatore, Anantapur and Salem.		
	Gokak canal extension pro- ject.	Protective	183	132,000	Belgaum, Bijapur and the Native States of Kolhapur Mudhol, Jamkhandi, Sangli and Kurundwad.	and oil seeds.	
Sind	Rohri canal, Sukkur Bar- rage and widening East- ern Nara Supply channel.	Productive	762	2,324,000	The whole Left Bank Division comprising three Revenue districts, viz., Nawabshah, Hyderabad and Thar and Parkar.	rice.	
.t s	ultanwah, Begari canal I	Productive	16	177,700	Sukkur and Upper Sind Frontier.	Rice, juari, bajri, wheat and oil	
Bengal D	amodar canal	Do	36	150,000	Burdwan	seeds. Rice.	
Bihar and Orissa E	xtension of the Tribeni canal.	Protective	10	25,000	Champaran	Rice.	
United Provinces B	elan canal	Do	15	30,500	Khairagarh Pargana, Allahabad district.	Rice and wheat.	

Projects under Investigation.

. 646	1,524,000	In the United Provinces-		
		Rampur State, Pilibhit, Shahjahanpur, Hardoi, Bareilly, Moradabad, Budaun, Saharanpur, Muzaffarnagar, Meerut, Bulandshahr, Aligarh, Muthra, Agra, Etah, Mainpuri, Farukhabad, Etawah, Cawnpore, Fatehpore and Allaha- bad. In the Punjab— Gurgaon, Karnal, Delhi.	All the principal rabi and kharif crops grown in the United Provinces.	Irrigation

Province.	Name and probable classific	ation of work.	Estimated or approximate direct cost in lakhs of rupees.	Irrigable area	Districts benefited.	Principal crops that will be produced.	
United Provinces and Punjak,	Sarda-Ganges-J u m n a feeders projects	Productive	. 646	1,524,000	In the United Provinces— Rampur State, Pilibhlt, Shahjahanpur, Hardoi, Bareilly, Moradabad, Budaun, Saharanpur, Muzaffarnagar, Mecrut, Bulandshahr, Aligarh, Muthra, Agra, Etah, Mainpuri, Farukhabad, Etawah, Cawnpore, Fatehpore and Allaha- bad. In the Punjab— Gurgaon, Karnal, Delhi, Roltak, Hissar, Patiala and Jhind States.	All the principal rabi and kharif crops grown in the United Provinces.	Titte duron F
Punjab	Sutlej Valley project	Do	875	3,000,000	Lahore, Ferozepore, Mont- gomery, Multan, Bikaneer and Bahawalpur States.	Wheat, gram, jowar and cotton.	Projects:
Burma	Remodelling the Kinda canal.	Do	15	85,000	Kyaukse	Rice.	
Central Provinces	Pangoli Nalla tank pro- ject. Deena Nadi Tank project Anamber reservoir project. Torwal reservoir project. Gamboli resrvoir project.	Protective Do Productive Do	14 to 25	33,000 45,260 8,0000 44,000 218,000	Chanda	Rice. Rice. Wheat and barley. Whoat and barley.	
	Zhob project Barshoro reservoir project:	Do. Minor	65	202,000 24,000	Zhob	Wheat and barley. Wheat.	215

Projects under Investigation .- contd.

Buildings and Roads.

The Buildings and Roads branch of the Public Works Department embraces all the operations of the Department which are not classed under the special heads of Railways and Irrigation. It includes the extension and maintenance of the road system, the construction and repair of all the buildings required for the proper discharge of the functions of government in all its branches, and a large miscellaneous class of works of public improvement, including lighthouses, harbours, embankments, boat bridges, and ferries, and the water supply and sanitation of towns.

The operations of this branch of the Department are classed primarily under the head of Civil Works, the expenditure on which is chiefly met from provincial resources. The classification of this expenditure for 1912-13 under the various heads is shown in the following table:—

		Central Pro- vinces and Berar.	Burma.	Assam.	Bengal.	Bihar and Orissa.	United Pro- vinces of Agra and Oudh.	Punjab.	North- West Frontier Pro- vince.	Madras.	Bombay.	India General.	Total.
•	,	£	£	£	£	£	£	£	£	£	£	£	£
mperial		62,786	23,329	4,048	111,096	9,590	58,448	26,702	169,236	44,913	28,698	449,982	988,82
rovincial*	••	451,112	550,474	287,748	600,143	398,796	492,298	458,369	••	1,044,260	652,848		4,985,58
Total		613,898	573,803	201,794	711,239	408,380	550,741	485,071	169,286	1,089,173	681,041	449,982	5,924,30
* Includes exp o that by the Publ	endit ic W	ture by th orks Depa	e Civil De rtment.	partment	in additio	on .		diture by	Civil Officers	from Imper	rial Funds		44,474 90,865
				•			ļ.			Grand Tot	al.		6,059,50

The extension of local Government in India has thrown a large portion of the smaller class of public works into the hands of the local Boards. Speaking generally, the boards maintain their own establishments, but in the case of any works of unusual difficulty they have recourse to the refessional skill of the Public Works Officers.

Posts and Telegraphs.

POST OFFICE.

The control of the Posts and Telegraphs ments. The Presidency Postmasters, indeed of India is vested in an officer designated Di- have one or more Superintendents subordinate rector-General of Posts and Telegraphs who works in subordination to the Government of India in the Department of Commerce and Industry. The superior staff of the Direction, in addition to the Director-General himself consists on the postal side of two Deputy Direc-Superintendents).

For postal purposes, the Indian Empire is divided into eight circles as shown below, each in charge of a Postmaster-General:—Bengal and Assam, Bihar and Orissa, Bombay, Burma, Central, Madras, Punjab and North-West Frontier and United Provinces. The Central Circle comprises roughly the Central Provinces and the Central India and Rajputana Agencies.

The Postmasters-General are responsible to the Director-General for the whole of the postal arrangements in their respective circles, with the exception of those connected with the conveyance of mails by railways and inland steam-ers which are entrusted to four officers bearing the designation of Inspector-General of Railway Mail Service and Sorting. All the Postmasters-General are provided with Personal Assistants, while those in charge of the largest circles are also assisted by Deputy Postmasters-General. The eight Postal Circles and the jurisdictions of the four Inspectors-General are divided into Divisions each in charge of a Superintendent; and each Superintendent is assisted by a certain number of officials styled inspectors or Assistant Superintendents.

Generally there is a head Post Office at the head-quarters of each revenue district and other post offices in the same district, are usually subordinate to the head office for purposes of accounts. The Postmasters of the Cal-cutta, Bombay, and Madras General Post Offices and of the larger of the other head post inspections, appointments, leave and punish-graph revenue is also credited.

have one or more Superintendents subordinate to them. When the duties of the Postmaster of a head office become so onerous that he is unable to perform them fully himself, a Deputy Postmaster is appointed to relieve him of some of them, and if still further relief is required, one or more Assistant Postmasters are employed. rose on one possess suce of two Deputy Directors there are officers of the rank of Post-master-General), four Assistant Directors to the head office are designated sub-offices and General (whose status is similar to that of Deputy Postmasters-General), and two Personal importance. Sub-offices transact all classes of Assistants (who are selected from the staff of postal business with the public, submit accounts postal business with the public, submit accounts to the head offices to which they are subordinate incorporating therein the accounts of their branch offices, and frequently have direct dealings with Government local sub-treasuries. The officer in charge of such an office works it either single-handed or with the assistance of one or more clerks according to the amount of business.

Branch offices are small offices with limited functions ordinarily intended for villages, and are placed in charge either of departmental officers on small pay or of extraneous agenta, such as school-masters, shopkeepers, landholders or cultivators who perform their postal duties in return for a small remuneration.

The audit work of the Post Office is outrusted to the Accountant-General, Post Office and Telegraphs, who is an officer of the Finance Department of the Government of India and is not subordinate to the Director-General. The Accountant-General is assisted by Deputy Accountents-General, all but one of whom, with the necessary staff of clerks, perform at separate headquarters the actual audit work of

a certain number of postal circles.

In accordance with an arrangement which has been in force since 1883, a large number of sub-post offices and a few head offices perform telegraph work in addition to their postal work and are known by the name of combined offices. The policy is to increase telegraph facilities everywhere and especially in towns by opening cutta, Bombay, and Madras General Poet a number of cheap telegraph offices working Offices and of the larger of the other head post under the control of the Post Office. The offices are directly under the Postmaster-General telegraph expenditure on account of these and the least of them exercises the same powers combined offices is borne by the Telegraph as a Superintendent of Post Offices in respect of Department to which the whole of their tele-

Inland Tariff is as follows:-

Letters.	When the postage is prepaid.	When the postage is wholly unpaid.	When the postage is insufficiently prepaid.
Not exceeding 1 tols	Anna.) ¥.	늄음
Exceeding 1 tola but not exceeding 10 tolas	1	prepa rgeabl rg.)	argeatry.)
Every additional 10 tolas or part of that weight	. 1	delive	ouble the ency (cha on deliver
Book and pattern packets. 10 tolas or part of that weight	÷	Double rate on d	Dough Sin G

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Postcards.
Single lanna.
Renty 1
(The postage on cards of private manufacture must be prepaid in full).
Parcels (prepayment compulsory). Rs. a.
Every 40 tolas or part of that weight up to 440 tolas 0 2
Exceeding 440 tolas but not exceeding 480 tolas 3 0
Every additional 40 tolas or part of that weight up to 800 tolas 0 4
Registration fee.
For each letter, postcard, book or pat- tern packet, or parcel to be registered 0 2
Ordinary Money Order fees.
On any sum not exceeding Rs. 5 0 1
On any sum exceeding Rs. 5 but not exceeding Rs. 10 0 2
On any sum exceeding Rs. 10 but not exceeding Rs. 15 0 3
On any sum exceeding Rs. 15 but not exceeding Rs. 25 0 4
On any sum exceeding Rs. 25 up to Rs. 600
for each complete sum of Rs. 25, and 4 annas for the remainder; provided that, if the remainder does not exceed Rs. 5, the charge for it shall be only 1 anna; if it does not exceed Rs. 10, the charge for it shall be only 2 annas and if it does not exceed Rs. 15, the charge for it shall be only 3 annas.
Telegraphic money order fees.—The same as

Telegraphic money order fees.—The same as the fees for ordinary money orders plus a telegraph charge calculated at the rates for inland telegrams for the actual number of words used in the telegram advising the remittance, according as the telegram is to be sent as an "Express" or as an "Ordinary" message.

Value-panable fees.—These are calculated on the amount specified for remittance to the sender and are the same as the fees for ordinary money orders.

Insurance fees.—For every Rs. 50 of insured value 1 anna.

Acknowledgment fee.—For each registered article 1 anna.

Ceylon and Portuguese India are regarded as "Inland" for the purpose of the tariff given above, except with regard to insurance fees.

The Foreign Tariff (which as noted above is not applicable to Ceylon and Portuguese India, except as regards insurance fees) is as follows:—

Letters.

To the United Kingdom, other British
Possessions and
Egypt, including the Soudan.

One anna for each ounce or part of that weight.

To other countries, colonies or places.	2½ annas for the first ounce and ½ annas for every additional ounce or part of that weight.
--	---

Postcards Single 1 anna. ,, Reply 2 annas. Printed Papers.—1 anna for every 2 ounces or part of that weight.

Business Papers.—1 anna for every 2 ounces or part of that weight, subject to a minimum charge of 21 annas for each packet.

Samples. $-\frac{1}{2}$ anna for every 2 ounces or part of that weight, subject to a minimum charge of 1 anna for each packet.

(The rates shown above are those chargeable when the postage is prepaid).

Parcels.—(Prepayment compulsory). The rates vary with the countries to which they are addressed. The rates to the United Kingdom are—

			Gi	via bral) ve	
			1	ar.		11	ınd	
			Rs	. a.	p.	Rs.	a.	p.
Not over	3 lbs.		0	12	0	1	8	0
,, ,,	7,,		1	8	0	2	4	0
,, ,,	11 ,,		2	4	0	3	0	0
Registra postcard,	ation fe or pack	e.—2 cet.	annas	for	ea	ch !	lett	er,

Money Orders.—To countries on which money orders have to be drawn in rupee currency, the rates of Commission are the same as in the case of inland money orders.

To countries on which money orders have to be drawn in storling, the rates are as follows:—

							A	шцав.
Not	exceed	line	£1			'		3
				not	exceeding	£2		5
	,,	£2		,,	,,	£3		8
	,,	£3	,,	"	"	£4	• •	10
	,,	£4	,,	,,	"	£5	• •	12
	**	£5					• •	12

for each complete sum of £5 and 12 annas for the remainder, provided that if the remainder does not exceed £1, the charge for it shall be 3 annas; if it does not exceed £2, the charge for it shall be 5 annas; if it does not exceed £3, the charge for it shall be 8 annas; and if it does not exceed £4, the charge for it shall be 10 annas.

Insurance fees-

To countries other than

those named below ... 3 annas for every £5.

To Ceylon and Portu-

guese India 2 annas per every Rs.
100.

To Mauritius, the Seychelles, Zanzibar, and the British East Africa, Uganda, and Somaliland Protec-

torates ... 4 annas per every Rs.

Acknowledgment fee.—2 annas for each registered article.

1893-94 the total number of Post Offices was 10,387 and the total length of mail lines 116,607 miles. For the 31st March 1914 the corresponding figures were 18,946 and 155,806. During the year 1893-94 the total number of letters, postcards, newspapers and packets given out for delivery was about 368 millions, while for the year 1913-14 the total number of unregistered articles of the same classes given out for delivery plus the issue number of registered letters and packets posted amounted to over 1,037 millions. The number of parcel mail articles given out for delivery in the former year was about 2 millions, as compared with over 12½ millions of such articles posted during the latter year. The total number of articles of all the above named classes exchanged with the outer world rose from about 18 millions in 1893-94 to nearly 70 millions in 1913-14. The total number and value of money orders issued increased from 8,853,225 and Rs. 18,80,21,454 in 1893-94 to 30,986,373 and Rs. 56,47,14,676 respectively in 1913-14. During the former year the number of articles insured for transmission by post was 285,038 with an aggregate declared value of Rs. 8,00,89,402 and the corresponding figures sold 12,059 lb. of quinine to the public.

Growth of the Post Office .- At the end of | for 1910-11 were 1,169,428 and Rs. 26,88,78,925. As the result, however, mainly of the introduction in 1911-12 of the rule under which inland articles containing currency notes or portions thereof must be insured, the figures for 1913-14 stand at 2,941,204 and Rs. 73,05,64,393. The number of accounts open on the books of the Post Office Savings Bank grew from 574,050 on the 31st March 1894 to 1,638,725 at the end of 1913-14 with an increase from Rs. 8,26,57,319 to Rs. 23,16,75,467 in the total amount standing at the credit of depositors. The total staff of the department on the 31st March 1914 numbered 93,955. The net financial result of the working of the Post Office for the year 1913-14 was a surplus of Rs. 41,25,042.

This account of the activities of the Post Office would not be complete if it were not mentioned that on the 31st March 1914 there were 24,574 active Postal Life Insurance Policies with an aggregate assurance of Rs. 3,37,54,455 and that during the year 1913-14 it disbursed a sum of Rs. 30,37,129 to Native Military Pensioners; collected, at its own expense, a sum of Rs. 10,34,218 on account of customs duty on parcels and letters from abroad; and

TELEGRAPH DEPARTMENT.

Telegraphs .- Up to 1912 the telegraph system in India was administered as a separate Department by an officer designated Director General of Telegraphs who worked directly under the Government of India in the Department of Commerce and Industry. In that year it was decided to vest the control of Posts and Telegraphs in a single officer as an experimental measure with a view to the eventual amalgamation of the two Departments.

In pursuance of this policy an experimental amalgamation of the two services was introduced in the Bombay and Central Circles from the 1st July 1912. The fundamental principle of this scheme which follows closely the system in force in the United Kingdom and several other European countries are that the traffic and engineering work of the Telegraph

Departband be separated, the former branch ment should be separated, the former branch of work in each Circle being transferred to the Postmaster General who is assisted by a Deputy Postmaster-General and a suitable number of attached officers while the engineering branch is controlled by a Director of Telegraphs in charge of the two Circles. Subordinate to this officer there are several Divisional Superintendents who are assisted by a number of attached

In 1914 the complete amalgamation of the two Departments was sanctioned by the Secretary of State and introduced from 1st April. The superior staff of the direction in addition to the Director-General himself consist on the Engineering side of a Chief Engineer, Telegraphs, with an Assistant and a Personal Assistant to the Director-General. For traffic work there is a Deputy Director-General with an Assistant and an Assistant Director-General. In the Circles the scheme which has been introduced follows closely on the lines of the experimental one referred to above. For telegraph engineering purposes India is divided up into three Circles each in charge of a Director of Telegraphs. For Burma special arrangements were con-

sidered necessary and the engineering work is in charge of the Postmaster-General, Burma Circle, who is a Telegraph officer specially selected for the purpose. These four Circles are divided into twenty divisions each of which is in charge of a Superintendent of Telegraph Engineering.

The telegraph traffic work is now under the control of the Postmaster-General each of whom is assisted by a Deputy Postmuster-General with a suitable staff of attached officers.

The audit work of the Telegraph Department is, like that of the Post Office, entrusted to the Accountant-General, Post Office and Telegraphs, assisted by a staff of Deputy and Assisttant Accountants-General.

Inland Tariff .- The tariff for inland telegrams is as follows:-Private and State. Ex-

press.

Ordi-

nary.

```
Rs. a.
                                  Rs. a.
                       .. 1
                                  Λ
                                     6
Minimum charge
Each additional word
                       .. 0 2
  over 12
                  Additional charges.
                                      ..6 annas.
Minimum for reply-paid telegram
Acknowledgment of receipt
                                       . в
Multiple telegrams, each 100 words
  or less ..
                        ..One
                                  quarter
Collation ..
                            charge
                                            tele
                                     for
                            grams.
                         If both the offi-
ces of origin
and destina-
For acceptance of an
 Express telegram
                           tion are closed .
  during the hours
                             only one of
 when an office is
                                offices
                           the
 closed.
```

closed ..

Signalling I phore to detelegram	oy flag	or se ships	-per	anns	ıs.	
Boat hire	••	••		mour ally sary	n	
Copies of te words or le	×88			anns	18.	
		pre	x- 85.	Ord nar Rs.	y.	
Minimum cha	Ū	1	0	0	8)	Address free.
Each addition	nal 6 w	ords 0	2	0	1∫	Add
(Ceylon is Portuguese I		garded	8,8	' Inla	nd "	but

Foreign Tariff.—The charges for foreign roreign larin.—Inc energies for horeign telegrams vary with the countries to which they are addressed. The rates per word for private and State telegrams to all countries in Europe except Russia and Turkey are as follow:--

				Private.				
					Rs.	a.	Rs.	a.
V ia	Turkey	••	••	٠.	1	6	••	
,,	Indo	• •			1	4	0	12
;,	Eastern		••		1	4	0	10

Telegraph Traffic .-- At the end of 1894-95 there were 44,648 miles of line and 128,526

toffices worked by the Post Office rose from 1,109 to 3,147. The increase in the number of paid telegrams dealt with is shown by the following figures :-

}			189 4-9 5.	1913-14.
	Private		8,205,353	13,485,126
Inland	√ State		585,571	1,276,738
	Press	• •	26,202	
	Private		564,202	1,620,102
Foreign .	≺ State		6,804	
	Press	••	3,094	24,601
	Total		4 301 226	16 596 697

Wireless.-The total number of wireless telegraph stations open for traffic at the end of telegraph stations open for traine as one can of 1913-14 was seventeen, viz., Port Blair, Bassein, Diamond Island, Table Island, Victoria Point, Mergul, Bombay, Sandheads, Calcutta, Karachi, Delhi, Simla, Allahabad, Lahore, Nagpur, Peshawar and Quetta, and the total number of messages of all kinds disposed by the ten contractives during the year, var 278 500. coast stations during the year was 76,526.

Telephone.—On the 31st December 1913 the number of telephone exchanges established by the department was 180, the total number of connections being 5,193 and there were also 740 non-exchange circuits with 1,530 offices. The number of telephone exchanges established by Telephone Companies was 13 with 9,046 connections. The outturn from the workshop during 1913-14 represented a total value of Es. 14,48,000. At the end of the year the total there were 44,548 miles of line and 128,526 miles of wire and cable, as compared with 81,593 and 321,801 miles, respectively, on the 31st March 1914. The number of department by the close of 1913-14 amounted to Rs. 12,16,90,789. The net revenue for the mental telegraph offices was respectively year was Rs. 18,97,826, representing 1.56 per 258 and 249 while the number of telegraph.

The Trade of India.

The trade conditions of India are necessarily i determined by the economic condition of the country. The dominant industry in India is agriculture. Although a few great industries, like the jute industry of Bengal and the cotton industry of Bombay, have been built up, sixty-five per cent. of the people still derive their means of livelihood from the soil. Consequently the principal articles of export are in the form of raw produce like cotton and jute, rice and wheat and oilseeds. On the other hand, the articles of import are manufactured. From this premiss follows another conclusion. The trade history of the year is governed by the character of the rains; the nature of the harvest determines both the power of the people to sell produce and to import manufactured goods. One other factor needs to be noted. India is a debtor country. She has to discharge, for the most part in London, the interest on the debt conpart in London, the interest of the structed for railway, irrigation and other purposes. She has also to pay in London what are called the "home charges," the payments for pensions, salaries of officers on leave, and similar services. These amount in round figures to about £ 17 millions a year. The total of the payments to be made in London annually on both heads and for capital works on railways and other stores is £ 18 millions. Consequently, there must be a balance of trade in favour of India. This, when it exceeds the Home charges. which is almost invariably the case, is liquidated by the importation of treasure-gold and silver, gold in the form of sovereigns and bars, silver invariably as bullion.

The trade statistics of India are for the official year, April 1913 to March 1914. The official report, therefore, does not embrace the months subsequent to the war; some of these are indicated from the later figures but they are necessarily incomplete. The following particulars for 1913-14 are drawn from the Review of the trade of India, published by the Department of Statistics, and written by Mr. G. Findlay Shirras, Director of Statistics,

Features of the Year.—The chief characteristics of the year 1913-14 were (1) a failure of the rainfail in some parts of India; (2) Bank failures which were confined chiefly to the Punjab and Bombay; (3) a glut in the piecegods trade; (4) some difficulty in railway transport. With the possible exception of Australia, India possesses the most precarious rainfail in the world, and the year under review was no exception to this rule. The monsoon of 1913 after the middle of July was irregular, and the rains in the United Provinces and Central India ceased in early September. In parts of Bengal, Bihar and Orissa, and also in Madras, excessive rain resulted in heavy floods. The United Provinces, Central India, and Rajputans failed to obtain that amount of seasonal and total rainfail which is required in the cold weather season. Famine conditions were accordingly established in part of these localietes. Actual famine conditions, however, were

confined to Jalaun, Banda, Hamirpur and Etawah. These abnormal seasonal conditions are reflected in the harvests. The outturn of wheat and oliseeds was somewhat in defect, and the rice crop in Northern India also suffered. The outturn of sugarcane in the United Provinces was seriously affected by the unfavourable seasonal conditions. The excessive rainfall of July and August resulted in the curtailment of the jute crop of Bengal. Cotton, however, fared well, and the outturn was good.

Banking.—The Banking and commercial crisis in Northern and Western India began in September with the failure of the People's Bank in the Punjab, which had at the time of its failure deposits of Rs. 1½ cores and a net work of 72 branches. The Credit Bank of India falled in the first week of October, and this was the first cal sign of the spread of the Bank failures to Bombay. The Indian Specte Bank and some 13 more banks failed.

Overstocking.—A glut in the piecegoods trade also took place, specially from October 1913 to January 1914. Stocks of both imported goods and local made cloth in Bombay were much heavier than they had ever previously been, and owing to the financial troubles and the breakdown of credit, goods went into consumption very slowly during the latter half of the year. Shipments were far in excess of requirements, and the docks were so full that there was great difficulty in storing piecegoods. On the whole, notwithstanding the exceptional conditions above mentioned, the year may be regarded as one of fairly prosperous trade.

Gross Figures.—The total imports (i.e., including private merchandiss and Government stores but excluding treasure) in 1913-14 were Rs. 191 crores or £ 127 millions. The total oxports of Indian produce were Rs. 244 crores or £ 163 millions. The re-exports of foreign goods were nearly Rs. 5 crores or £ 3 millions. The total treasure imported was Rs. 43 crores or £ 29 millions-a decrease as against the previous two years. For the five years 1909-10 to 1913-14 there has been a continuous rise in the imports of private merchandise and in the exports of Indian produce, and as regards these, the year 1913-14 may be considered a record one.

Variations.—The predominance of unmanufactured articles among the exports is quite an noticeable as their subordinate position among the imports. The principal increases and decreases of the exports of 1913-14, as against 1912-13, are shown below.—

				Ks. Lakhs.	
Grain, pulse and flo	ur			<u>— 15,1</u>	13
Tea		••	• •	+ 13	
Seeds	• •		• •	十 .25	
Cotton, raw	• •	• •	• •	‡ ^{12,7}	
Jute , Opium	• •	••	••		
Jute manufactures	••	••	•••	— 5,4 → 5,4	
Hides and Skins		•••			12

THE EXPORT TRADE OF THE YEAR.

Exports.—The articles of export are grouped under four main heads—(I) Articles of Food Drink and Tobacco, (II) Raw Materials and Produce and Articles mainly unmanufacture (III) Articles wholly or mainly manufactured, (IV) Miscellaneous and Unclassified. It will

seen from the table that the only class in which the value (in lakhs of rupees) of the trade increased last year was Class II (Raw Materials and produce and articles mainly unmanufactured) and that the other classes had appreciable decreases.

	1912-13.	1913-14.	Increase (+) or Decrease. (-).	Per	cent.	Relative share of each class.
I. Food, Drink and Tobacco II. Raw Materials III. Articles manufactured IV. Miscellaneous	78,08 103,48 57,33 2,46	64,77 122,46 54,59 2,41	$\begin{array}{c c} & 13,31 \\ + & 18,98 \\ - & 2,74 \\ - & 5 \end{array}$	+	17 18.3 4.8 2.2	26.5 50.1 22.4 1
TOTAL	241,35	244,23	2,88	+	1.2	+ 100

The decrease under Class I with regard to food grains was marked. Shipments of tea, however, showed a satisfactory increase of over Rs. 1½ cores. The general result was that in the class Food, Drink and Tobacco, there was a decrease of Rs. 13 cores as compared with the previous year. In Class II (Raw materials and produce and articles mainly unmanufactured) decreases were shown under coal, lac, hides and skins and timber. But the chief features of this class was the further large increase in the sale of textile materials, namely, an increase of nearly 12½ crores in the exports of raw cotton and of nearly Rs. 4 crores in the value of raw jute. Raw cotton showed a steady upwards tendency and the figures are given on page 13. In the case of raw jute there was an actual decline in quantity. Of the seeds exported almost all are oilseeds, which are exported to Europe for utilisation in soap and candle factories. It is interesting to note the advance in quantity of linseed and cotton seed and the recovery of groundnuts. In Class III (Articles wholly or mainly manufactured) there has been a decline under Chemicals, Drugs, and Medicines (in which head opium is registered) of nearly Rs. 8 crores as a compared with 1912-12, and class III as a whole has shown a decrease of nearly Rs. 8 crores as against the previous year but an increase of Rs. 5 crores compared with 1911-12.

The decrease under Class I with regard to food ains was marked. Shipments of tea, however, owed a satisfactory increase of over Rs. 13 crores as Food, Drink and Tobacco, there was a Food, Drink and Tobacco, there was a recease of Rs. 13 crores as compared with the revious year. In Class II (Raw materials and cortes and articles mainly unmanufactures) and articles mainly unmanufacture | Rs. 26 Crores in 1911-12.

Re-Exports.—The re-export trade which is comparatively unimportant tends to diminish as the development of direct communications between various parts of the world increases. Excluding the year 1911-12, when there was an abnormal export of imported sugar to the United Kingdom, the Indian re-export trade has not shown the decrease in recent years which might have been expected, but at the same time no great tendency is indicated in the other direction. The re-export trade in the year under review was valued at Rs. 4,68 lakhs and was mostly in manufactured goods, imported from Western countries, the most important class being cotton goods, valued at Rs. 1,56 lakhs, which go chiefly to East Africa, Persia, Arabia, Bahrein Islands and Aden. The re-exports to Western countries are comparatively small, raw wool imported over the land frontiers being the chief commodity. In 1913-14 the total amount of raw wool re-exported to the United Kingdom was

THE IMPORT TRADE OF THE YEAR.

Imports.—There has been a conspicuous increase in the aggregate value of imports in recent in the five years ending 1909-10 almost Rs. 116 crores, in the following three years Rs. 143 crores, rising to over Rs. 183 crores in the year under review. By far the largest proportion of the increase occurred in the class of Manufactured Articles, which constitute nearly 80 per cent. of the total imports. There was also a small increase in the class of Food, Drink and Tobacco, which was counterbalanced by a decrease under raw materials and articles mainly unmanufactured. The relative dimensions of each of these large groups, and the change in the aggregate value of each during the year will be seen from the following figures (in lakhs of rupees)

			1912-13.	1913-14.	Increase + or Decrease(-)	Per cent.	Relative share of each class,
Food, Drink and Tobacco Raw Materials, etc Articles manufactured Miscellaneous	::	::	23,41 12,40 1,22,93 2,26	24,66 10,56 1,45,16 2,87	$\begin{array}{ c c c }\hline + & 1,25 \\ \hline + & 1,84 \\ + & 22,23 \\ + & 61 \\ \hline \end{array}$	$\begin{array}{c c} + & 5 \\ \hline + & 15 \\ + & 27 \end{array}$	13.4 5.8 79.2 1.6
	TOTAL	••	1,61,00	1,83,25	+ 22,25	+ 14	100

When the items comprised in these groups are examined in detail it appears that in only three of the important articles there was a decline. They are coal, silk raw and piece-goods (in both of which a comparatively small decline followed the much inflated trade of the preceding year and raw cotton. The principal increases and decreases of the imports of 1913-14 as against 1912-13 are shown below:—

				T102+	
			(1	akhs	3).
Apparel and boots a	nd sh	oes		+	23
Carriages and carts.	etc.			+	23
Chemicals, drugs, et	Λ.			1	21
Coal		•••		<u> </u>	14
Cotton, raw	• •	••	••	_	1,95
Cotton manufacture		••	••		5,48
Cutlery, hardware, i		manta d	· • •	1	96
	nstru	шенья, е	:	T	
Glassware, etc.	• •	• •	• •	+	28
Grain and pulse	. • •.	• •	• •	+	15
Iron and steel manu	factu	res	• •	+	4,52
Machinery		• •	••	+	2,40
Oils				+	41
Metals other than ir		d steel	••	+	2,03
Paper, pasteboard, e	etc.			+	21
Railway Plant, etc.				+	3,63
Silk, raw				+	45
Sugar			- 11	1	68
Wood and timber	••	• •		1	18
Woollens	••	•••	••	\mathbf{T}	79
Increased Durel		d Daw	·	The	im-

Increased Purchasing Power.—The imports show a general increase in all directions, and indicate the growing purchasing power of the people. The imports of sugar and molasses, kerosene oil, cotton piece-goods, silk and woollen goods, apparel, boots and shoes, soaps, copper and yellow metals, matches, betelnuts and gal-vanised iron sheets, reduced to index numbers are in the last six years successively 80, 87, 99, 103, 125, and 144 taking the average for 1908-13 as the base (100). Imports of goods consumed generally by Indians Indicate perhaps the surest criterion of the purchasing power of the people, and it will be seen that many of these imports are to be classed as conventional necessities or luxuries rather than articles of primary necessity. The increase in the imports over the last quinquennium shows the improved economic situation and a general diffusion of well-being. It is sufficient to point out that the progress experienced in the year 1912-13 continued in 1913-14, and there has been a further advance of over Rs. 22 crores. The special feature of the import trade continues to be the great demand for cotton manufactures. Cotton goods have advanced until their values approximate to a third of the total import trade. The actual increase of imports has not been so great as the figures by value suggest. Taking cotton manufactures as a whole, the United Kingdom in 1913-14 supplied over 90 per cent. of the total and the percentages were higher in the case of piecegoods. Of other countries Japan has made a most marked advance, sending goods to the value of Rs. 120 lakhs in 1913-14 as against Rs. value of Rs. 120 lakins in 1913-14 as against Rs. 81 lakins in 1912-13, and Rs. 76 lakins in 1911-12 and as against Rs. 13 lakins ten years ago, the imports consisting chiefly of hosiery. Cotton yarns show no very marked increase, and come mostly from the United Kingdom. In the year under prival both sides of India suffaced from under review both sides of India suffered from congestion of cotton piece-goods, which was due to a large extent to the contraction of purchasing power owing to famine or quasi-

famine conditions in certain areas, especially in the United Provinces. Substantial increases are also noticed in railway plant and rolling stock and machinery. The bulk of the trade is with the United Kingdom. The figures for railway plant and rolling stock (which do not include stores on Government account) were Rs.10 crores in 1913-14. In 1913-14 all classes of machinery increased more or less, but the increase of nearly Rs. 21 crores was due mainly to the heavy imports of textile and electrical machinery and primemovers. In 1913-14 there was also an increase under all heads of instruments and apparalus except scientific. Under articles of Food and Drink Sugar retains a position of supreme importance. The imports of sugar are of special interest by reason of their bearing on the question of sugar cultivation in India. It is a striking fact that the production in India is estimated to be some 3 million tons of cane sugar a year, and India is thus the largest single producer of sugar in the world. At the same time India imports increasing quantities amounting in 1913-14 to nearly 10 per cent. of the total supply of cane sugar outside India. Cane sugar, which is imported from Java, Mauritius, the Straits Settlements, and China, was 90 per cent-of the total sugar imported. Beet sugar is imported from Austria, Germany, Belgium and the United Kingdom. Imports of hides, guns and resins, cotton yarn, matches, cement and mineral dyes showed decreases.

Bullion.—The movements of gold and silver bullion are of special interest at the present time, especially in view of their connection with currency. The imports of gold on private accountwere Rs. 28 crores, there being none on Government account. The exports on private accountwere about Rs. 5 crores, and there were no exports on Government account. The net Imports of gold were 23½ crores in 1911-12, and Rs. 24 crores in 1912-13, Rs. 38 crores in 1911-14, Rs. 34 crores in 1912-13, Rs. 38 crores in 1911-12, and Rs. 24 crores in 1910-11. Imports of silver on Government account were Rs. 7 crores and on private account were Rs. 2 crores, and on Government account Rs. 3 laths. In short, the net imports of silver were Rs. 13 crores as compared with Rs.17 crores in 1912-13 and Rs. 5 crores in 1911-12. The stream of the precious metals to India is still continuing. The absorption of Gold in India rose from Rs. 72 crores in 1890-90 to Rs. 12 crores in 1903-04, and to Rs. 21 crores in 1903-04, and to Rs. 21 crores in 1903-04, and to Rs. 21 crores in 1903-04, and to Rs. 21 crores in 1903-04, and to Rs. 21 crores in 1903-04, and to 13-14 to Rs. 31½ crores

Sovereigns.—Nearly one-half of the total amount of gold imported, speaking generally is in the shape of coin—practically ali in sovereigns. The exports consist of bullion from the Kolar and other gold fields to the extent of overRs. 3 crores in 1913-14 or two-thirds of the total exports of gold. Silver, which is not produced locally in any appreciable quantity, is imported mostly as bullion, and in the year under review about Rs. 7 crores of bullion was imported on Government account for coinage purposes as against Rs. 9 crores the previous year. Silver exported is mainly in the form of rupces which circulate exclusively in Ceylon, Mauritius, Arabia, East Africa and the Persian Guif.

Balance of Trade.—The excess of export over imports including merchandise and treasure in 1913-14 was Rs. 21,37 lakhe including Government transactions, and Rs. 36,08 lakhs

excluding Government transactions, the average for the last three years being Rs. 30,20 lakhs and Rs. 41,08 lakhs, respectively.

Prices.—In reviewing the course of foreign trade during the year it is necessary to take into account the movement in prices, and the part played by them in producing the changes recorded in the trade returns. It will be sufficient to show here how the 1913-14 figures appear if calculated at prices current in 1912-13. The calculated figures given below in lashs of rupees, when compared with the 1912-13 returns show the change in the volume of trade, while the comparison with the recorded values in 1913-14 shows what change has occurred in average import and export prices. The table shows that of the recorded increase of Rs. 25,07 lakhs, Rs. 16,56 lakhs was due to the larger volume of trade and Rs. 8,51 lakhs to higher prices. That is to say, prices were about 2 per cent. higher than in 1912-13 and the actual volume of our foreign trade increased by about 4 per cent.—

Raw Materials 10,56 9,97		Value recorded in 1913-14.	Calculated value of 1913-14 trade at prices of 1912-13.	Value recorded in 1912-13.
TOTAL TURNOVER . 4,32,16 4,23,6	Food, Drink and Tobacco Raw Materials Manufactures Total Impotrs (including miscellaneous) EXPORTS. FOOd, Drink and Tobacco Raw Materials Manufactures Total exports (including miscellaneous) RP-EXPORTS.— Food, Drink and Tobacco Raw Materials Manufactures Total re-exports (including miscellaneous)	. 24,66 10,56 1,45,16 1,83,25 64,77 1,22,46 54,59 2,44,23 . 58 84 3,10 4,68	Rs. 26,45 9,97 1,43,25 1,82,48 65,44 1,16,08 51,99 2,36,46 58 87 3,09 4,71	Rs. 23,40 12,40 1,22,93 1,61,00 78,08 1,03,48 57,33 2,41,35 55 97 3,08 4,74 4,07,09

The analysis of prices shows the rise was chefily under food, grain, pulses, textiles, jute and building materials, the prices of which rose by 13, 17, and 11 per cent respectively. There was also an increase, though not marked, in tea and coffee (5 per cent), textiles-cotton (3 per cent) and silk and wool (5 per cent) the sand skins (6 per cent) and metals and manufactures thereof (2 per cent). The prices of food grain cereals and sugar fell by 8 and 6 per cent, respectively. Those of other articles of food and drink, oilseeds and other raw and manufactured articles remained at about the level of 1912-13. On the whole, the taking all articles together the general average increase was 2 per cent. Prices of all articles over the last two decades stand at a higher level than at any previous period with the exception of tea, coffee and silk. The largest increase during the period has occured in the price of hides and skins and jute. The classes of commodities that have increased most besides these are oilseeds, pulses, cereals and building materials.

Labour.—It is necessary to refer to the rise in the price of labour (wages) which has had, sepecially in Bombay, an important effect in the year's industry. From an examination of returns supplied by leading industries, cotton (Bombay), woollen (Cawnpore), jute (Bengal), paper (Bengal), rice (Rangoon), mining (Bengal), and brewing (Punjab), it has been found that

there has been a general rise in wages in these industries of 3 per cent in 1913-14. The greatest rise is a rise of 9 per cent. in the cotton industry in Bombay and in the woollen mills in Upper India. The insufficiency of operatives in the cotton factories in Bombay has been of serious hindrance to the industry, and is due to the great demand for unskilled labour elsewhere, chiefly in the Public Works Department and at the docks, and also to such root factors over long periods as plague, etc., which arrest the natural growth of the population at a time of considerable industrial expansion. The jute industry shows a rise of 2 per cent. There was no material change in tea gardens, where labour conditions remained on the whole the same as in the pre-vious year. The importance of the figures may be gauged from the statistics of the last census (1911) which show that on the date of the census there were 704,000 employed on tea gardens, 308,000 in cotton mills, 222,000 in other textile industries, and 143,000 in collieries. But the rise in the wages of industrial labour has not been so great as in the case of agricultural labourers and village artisans. Money wages have over long periods increased in all industries and the rise has generally been greater than or equal to the rise in retail prices except in the tea, sugar and brewing industries. An examination of Indian wage statistics during the last decade

Trade according to countries.

The value of the total trade in private merchandise and treasure of British India with the United Kingdom, British possessions and Foreign countries during 1913-14 is given below in lakks of rupees:

·		Exports including re-exports.	Imports.	TOTAL.		
United Kingdom Other British Possessions Foreign Countries	 ::	::		61,80 39,24 1,54,92	1,40,58 15,18 64,11	2,02,38 54,42 2,19,03
	To	DTAL		2,55,96	2,19,87	4,75,88

The bulk of the foreign trade of India has always been conducted with the UNITED KINGDOM, which is a market for most of the articles shipped from India, and is also, to a diminishing extent, a centre for the storage and distribution to other countries of certain articles, not required for home consumption. Her aggregate share in the total trade is 41 per cent. The trade with BRITISH POSEESIONS other than the United Kingdom forms 11 per cent, of the total trade. The trade with FOREIGN COUNTRIES represents 48 per cent, of the total.

Europe and Asia.—As regards the trade in private merchandise only, no less than 80 per cent. of the import trade of India is carried on with European countries. Imports from Africa and America are comparatively trifling, and those from Australasia do not seem at present likely to attain to large dimensions. But while the import trade is so largely derived from Europe, the exports are far more widely distributed over the world. Not more than 57 per cent, is sent to European countries and the greater part of the remainder, namely, 26 per cent. Is destined for Asiatic ports. To the Continents of Australasia, America and Africa, 2, 12 and 3 per cent. are exported respectively—

					Imports. Rs. (Lakhs).	Exports including re-exports. Rs. (Lakhs).	. Total. Rs. (Lakhs).	Per cent.
Europe Asia America Africa Australasia	::	::	::	::	1,47,13 26,71 4,80 3,69 92	1,42,96 64,57 28,90 7,49 4,99	2,90,09 91,28 33,70 11,18 5,91	67 21 8 3 1

Owing to change in the method of compiling to countries of consignment and final destination there has been a considerable decline in the recorded imports from Belgium and a corresponding increase in imports from Germany. There have been also a diminution in the imports from Russia, and an increase in those from Austria Hungary, Java, the United States and Japan. In the first four cases, the results are due mainly to the changes in the sugar and oil trades, and in the case of Japan the development of the import trade has been marked under the heads of silk manufactures and cotton hosiery. Japan has succeeded to a large extent by paying attention to a great factor in the Indian bazar, the element of cheapness.

The imports from the United Kingdom have increased, but in the case of exports there has been an appreciable decline during the year 1913-14 compared with 1912-13. The imports from the United Kingdom are of an extremely varied nature, and record an increase of Rs. 16-14 lakhs. Over 79 per cent. of the total value is taken up by a very small number of articles, noted below. In these seven categories, which are typical of

the requirements of India from abroad, the position of the United Kingdom is unrivalled, except perhaps in the matter of metals, a demand for cheap and inferior iron and steel having arlsen in India, which is now met by Belgium and Germany. Certain other articles, as for instance, glassware, musical instruments, stationery, books, boots and shoes, soap have an increase sale in India. Exports have declined by Rs. 3-48 lakhs owing to decreases under wheat, barley and hides and skins. These decreases, however, are partly set off by increased shipments of cotton seed, raw cotton, jute raw and manufactured, tea and lac.

	Rs.
	(Lakhs).
 	 3.57
 	25.03
 	 13.93
 • •	 15.38
 ••	 14.05
 ••	 9.33
 	 6.88
 	 2.26
 	 2.22
 ••	 72

India imports but little from British Colonies. The market in India for such articles as Australia can send, is not large, and the continental goods are available at rates with which she cannot compete. There was a large consignment of wooden railway sleepers from there and a marked increase in the exports of gunny bags, and cloth which were required chiefly for bags and cools where were control to hold Australian produce. In the trade with Hongkong, opium accounts for a fall from Rs. 3-61 lakhs, to Rs. 1-63 lakhs, which was partly made good by increased Rs. 3-61 lakhs to as. A was partly made good by increased shipments of cotton twist and yarn. Imports increased from the Straits Settlements by Rs. 34 lakhs, block tin and betelnuts being chiefly responsible for the improvement, while exports declined owing to restricted shipments of opium and rice, partly set off by larger shipment of coloured piecegoods and jute manufactures. The import trade of Ceylon improved, due to increased receipts from spices while exports of rice, coal, coloured piece-goods, sepecially lungis and saris, and tea declined. Imports from Mauritius declined by Rs. 71 lakhs owing to a fall in the value of sugar. Imports from Cape Colony declined by Rs. 75,000. Noticeable fluctuations were principally a contraction in the value of rice exported to Mauritius and of gunny bags to the Cape. Trade with Natal has not advanced, the total value being Rs. 105 lakhs, as in 1912-13. The import trade is practically confined to coal (Rs. 21 lakhs) and the principal export are rice (Rs. 31 lakhs) and gunny bags (Rs. 25 lakhs). Exports of tea to Canada improved but those of gunny cloth de-clined. Rice exported to Aden and salt import-ed therefrom fell in value in the year under review.

Continental Trade .- The value of the Indian trade with Germany has increased. Cotton manufactures, dys, copper, iron and steel, machinery, and woollens bulk in the import trade. The substantial improvement in improvemnt in trade. The substantial improvement in exports is chiefly due to increased shipments of raw jute and cotton and seeds. Heavier imports of fron and steel and cotton goods swelled the total imports from **Belgium**, while there was a decline under exports due to the contract of earlier and while and goods to smaller shipments of grain and pulse and linseed, which were partly compensated for by linseed, which were party compensated for by larger shipments of raw cotton and copra. Imports of sugar and glassware from Austria-Hungary advanced in value, as also exports of raw jute and cotton, and hides and skins. France sends articles of a more or skins. France senus arteres of a more or lesses special character, such as millnery, silk, brandy and wine, although the demand for the last two has been reduced by the substitution of whisky. There was a large number of motor cars to the value of Rs. 5 lakhs received from France. Shipments of groundnuts, linseed, copra, raw jute and cotton were large, but those of poppy seeds and hides and skins fell off. The trade with Holland has increased with larger shipments of grain and pul-se, coir manufacture, and copra. Cotton goods imported from Italy advanced, also exports of raw cotton and pepper. Exports of lides and skins declined in value. Russia no longer holds

of America are not advancing. The demand for petroleum has been affected by the competition of the Burma oil wells. Last year imports of kerosine rose from Rs. 130 lakhs to Rs. 183 lakhs and the marked advance in the export trade was due to larger shipments of raw jute (+Rs. 85 lakhs) and jute manufactures (+Rs. 2,98 lakhs). Exports of hides and skins and lac fell by Rs. 58 lakhs and 'Rs. 6 lakhs respectively. Chile's imports of jute manufactures rose by Rs. 17 lakhs but the demand from the Argentine fell by a corresponding amount to the Rs. 2,95 lakhs. Formerly China did a larger business with India than any other country, next to the United Kingdom, but the trade has been much affected by Japan's direct trade with India, the extinction of the opium trade, and the diminution in the trade in cotton yarn, which is diminution in the trade in cotton yarn, which is now partly supplied by Japan. Shipments of opium to China during the year dwindled to Rs. 4 lakhs from Rs. 4,86 lakhs in 1912-13. She received more tea but less cotton raw and twist and yarn than in 1912-13, and her share of the trade was reduced by Rs. 5,30 lakhs to Rs. 5,72 lakhs. The trade with Japan has increased very largely and rapidly from Rs. 10,92 lakhs ten years ago to Rs. 15,16 lakhs in 1909-10. and Rs. 27.47 lakhs lat year. Increas-110,92 lakhs ten years ago to Rs. 15,16 lakhs in 1909-10, and Rs. 27,47 lakhs last year. Increased imports are partly attributed to the establishment of commercial agencies, the ability to supply cheap articles exactly what is required by the indian Market, the establishment of a direct line of steamers with Bombay, and of a branch of a Japanese bank there. She has recognised the importance of the market for cotton hoslery silk fabrics, matches, umbrella fittings, and conner. The export trade shows fittings, and copper. The export trade shows an appreciable improvement of Rs. 3,96 lakhs owing to the increased shipments of raw cotton. Of the total exports to Japan (Rs. 22,67 lakhs) in 1913-14 raw cotton (Rs. 19,40 lakhs) was by far the most important. The other exports in order of importance were husked rice (Rs. 1,62 lakhs), iron or steel pg (Rs. 33 lakhs), olicakes (Rs. 30 lakhs), opium (Rs. 18 lakhs), raw jute (Rs. 16 lakhs), jute manufactures (Rs. 15 lakhs), hides and skins (Rs. 13 lakhs) and manures (Rs. 10 lakhs). The chief imports were slik piece-goods (Rs. 1,18 lakhs), hosjery (Rs. 83 lakhs), copper (Rs. 41 lakhs), hoties (Rs. 39 lakhs), glass (Rs. 16 lakhs), and coal (Rs. 13 lakhs). Japan now occupies the predominant position in the trade with foreign countries in Asia, her share amounting to nearly 3 per cent of the import and 9 per cent of the exorder of importance were husked rice (Rs. 1,62 3 per cent. of the import and 9 per cent of the export trade. The increase under imports from Java is accounted for by larger receipts of sugar. Java is accounted for by larger receipts of sugar. Exports of opium to Java also increased. The years ago the trade with Java was valued at Rs. 2.47 lakhs. In 1913-14 this had risen to Rs. 12.69 lakhs, as against Rs. 12.70 lakhs in 1912-13. The trade has increased wery considerably as compared with a decade ago, due chiefly to the growth in the imports of sugar and exports of jute goods and opium. The chief exports in 1913-14 were jute goods (Rs. 71 lakhs), husked rice (Rs. 39 lakhs), opium (Rs. 71 lakhs) and tea seed (Rs. 5 lakhs) and the chief imports, sugar (Rs. 10,64 lakhs) and and the chief imports, sugar (Rs.10,64 lakhs) and timber (Rs. 5 lakhs). Imports of teakwood from Siam declined from Rs. 25 lakhs to Rs. 21 lakhs, skins declined in Value. Hussia no longer nous; and the center imports, sugar (18.10,44 lakins) and the market for kerosine, the import of which was timber (Rs. 5 lakins). Imports of teakwood from valued at nearly Rs. 4 lakins as against Rs. 48 | Siam declined from Rs. 25 lakins to Rs. 21 lakins, lakins in 1912-13. Russia took tea worth Rs. 166 | While export of gunny bags rose from 20 lakins lakins and copra Rs. 15 lakins, both showing to Rs. 46 lakins. The princip 1 articles of increases. Imports from the United States | exports to Indo China are opium and Jute

manufactures, both of which showed considerable improvement. The progress of the trade with Borneo is chiefly due to increased imports of kerosine oil, which rose from Rs. 46 lakhs to Rs. 78 lakhs.

Trade by Provinces—Of the trade with Europe, much the largest part is carried on by Bengal, while Bombay does a much more extensive Asiatic trade than Bengal. Bombay again has very minor trade relutions with America and Australasia, the trade with those regions centring largely in Calcutta.

The import and export trade in merchandise only of each maritime province with foreign contries during last year is stated in lakhs of rupee

	Import.	Export.	Total.
Bengal Bihar and Orissa Bomaby Sind Madras Burma	Rs. 72,08 62,53 16,28 16,36 16,00	Rs 1,02,75 33 69,47 26,54 25,91 23,91	Rs. 1,74,83 33 1,32,00 42,82 42,27 89,91
Total	1,83,25	2,48,91	4,32,16

Trade by Ports.—India possesses a very long seaboard but very few natural harbours, and hence about 95 per cent. of her foreign trade passes through the principal ports, two of which are actually situated at some distance from the sea. The proportion of the total trade in private merchandise passing through them in 1913-14 as compared with a decade ago (1904-05) is given below in lakhs of runges.—

	-			1904-05.	Per cent.	1913-14.	Per cent.
Calcutta Bombay Karachi Rangoon Madras Tuticorin Chittagong	::	::	::	99,68 77,11 25,67 21,57 10,08 3,19 2,98	39 30 10 8 5	1,68,59 1,31,99 42,82 33,02 20,89 6,97 6,24	39 81 10 8 5
		. 1	COTAL	 2,42,28	95	4,10,52	95

There has been no material change in the ratios for different ports, which is in the case of Calcutta 39 per cent, of Bombay 30 per cent, of Karachi 10 per cent, of Rangoon 8 per cent, of Madras 5 per cent, and of Tuticorin and Chittagong 1 per cent each.

Frontier Trade.

This trade is carried on with the adjoining foreign countries across the vast land frontier of India. The value, though comparatively small, being less than 5 per cent of the sca-borne trade, has increased in a very satisfactory way during recent years and has now attained substantial dimensions, amounting to Rs. 21,44 lakhs in 1913-14.

•	(In lakhs of rupees).							
		1912-13]	1913-14			
	Exports.	Imports.	Total.	Exports.	Imports.	Total.		
N. W. Frontier—	İ			<u> </u>	1			
Alghanistan	2,49	1,27	376.	1,52	1,29	2,81		
Dir, Swat and Bajaur	92	86	1,78	87	78	1,65 30 25		
Central Asia	3	4	· 7	18 22	12	30		
Persia	19	4	23	22	3	25		
N. and NE. Frontier-		1 1			1 1			
Nepal	2,17	4,54	6,71	2,05	4,33	6,38		
Tibet	13	25	38	20	33	53		
Sikkim	13	15	28	16	31	. 47		
Bhutan	ii	15	26	16 18	21	39		
Eastern Frontier—				i I				
Shan States	2,03	1,91	3,94	1,83	2,02	3,85		
W China	763	22	. 85	56	29	85		
Siam	20	95	55	17	44	61		
Karennee (North Ten-	1 20	1 55	7.34					
nasserim)	5	26	. 31	6	35	41		

The principal imports across the land frontier are rice, oilseeds, provisions (chiefly in the form of ghi, and pickled tea), cattle, sheep and goats all coming largely from Nepal, horses, ponles, and mules, chiefly from the Shan States, teak from Siam and Karennee, other timber from the North West frontier, raw wool mainly from Afghanistan and Tibet, and fruits and vege-tables, especially from Afghanistan. The principal exports are cotton manufactures, and yarn, mostly of foreign origin; the other exports, among which spices, metals, sugar, tea and sait are the most important, are on a much smaller

About 27 per cent. of the total frontier trade crossed the North West frontier last year. The trade with Persia continues very small, in spite

some Indian railways on goods for Persia, but the trade has been subject to various drawbacks, and is yet small. From Rs. 12 lakhs in 1909-10. it increased to Rs. 25 lakhs in 1913-14, the largest items in the exports from India being cotton piece-goods, leather and tea. Formerly one trade with Afghanistan was subject to many restrictions in the way of heavy duties, mono-polles, etc., but with the removal of some of them, the trade has expanded of late years, but not to such an extent as seems possible. Last cotton piece-goods, leather and tea. Formerly the not to such an extent as seems possible. Last year, however, the total value (Rs. 2,81 lakhs) was much less than in 1912-13 (Rs. 3,77 lakhs). Under imports raw wool increased in value to Rs. 74 lakhs, representing 57 per cent. of the total, due to favourable rains and good quality, while fruits and nuts declined to Rs. 26 lakhs. trade with Persia considerate very sman, in space of the efforts made to develop the route from Cotton piecegoods and tea mainly accounted for Quetta by way of Nushki and Seistan. The Quetta-Nushki Railway was opened in 1905, decreases are attributed to the tightness of the and rebates of freight have been granted by money market owing to failures of Indian banks.

General Summary.

In the following table the more important statistics relating to trade are summarised for the year under review (1913-14), the provious year (1912-13) and a decade ago (1904-05).

· · · · · · · · · · · · · · · · · · ·		-	1904-05 Rs. (lakhs).	1912-13 Rs. (lakhs).	1913-14 Rs. (lakhs).
Total Foreign Seaborne Exports including re-expe	trade (merch	andise)	262,13 157,72	412,85 246,22	440,35 249,04
Imports Net imports of treasure	•• ••		104,41 22,97	166,63 51,20	191,31 36,36
Net imports of gold Total inland trade (mer	chandise)		9,70 558,36	34,00 901,35	23,33 873,30
" Coasting trade (m	nerchandise) nerchandise)	:: ::	76,53 13,19	113,66 19,88	118,72 19,25
Gross Railway earnings	••	.,	3,967	61,36	62,56
Railroad mileage		miles.	27,727	33,590	34,699
Total area Cultivated acres	:: ::(1,000 acres)	555,974 207,721	618,927 224,166	618,927 224,166
Wheat raised Rice ,,	(1,000 tons)	7,582 22,423	9,853 28,484	8,427 28,167
Cotton ,, Jute ,,	(1,000 bales)	3,791 7,400	4,610 9,843	5,201 8,752
Coal Shipping tonnage	(1,000 tons)	8,217 13,881	14,706 17,484	16,208 17,386
Customs Revenue Paper Currency		Rs. lakhs)	6,20	10,10	1,064
(gross circulation).	•• ·•		39,18	68,98	6,612
Population, last census of preceding census	(1911) us (1901)	:: ::	::::	••••	315,083,772 294,292,433

From this table two points are manifest—(1) the record trade figures for 1913-14; and (2) the general progress and increase of prosperity which has been made within the decade. Despite the fact that 1913-14 had several disadvantages, for example, a partial failure of the monsoon in Upper India, abnormally heavy rains in Bengal and Madras, the banking crists in Northern and Western India, the glut in the piece goods markets in Bombay and in Calcutta, and some difficulty of Railway transport, the total foreign sea-borne trade advanced to Rs. 440 crores. This increased

volume of trade however is still low compared with the United Kingdom and other leading countries as will be seen in the table below—

Trade per head of Population in selected Countries.

. ———				Popula- tion in millions.	1900.		1905.		1910.		1911.		1912.		1913.	
India Russia United Kingdo France Germany Italy United States Japan China	 m		::	315 164 45 40 65 35 92 50 400	Rs. 6 16 273 135 135 56 90 17	a. 4 0 12 14 12 6 6 7	Rs. 8 18 285 147 156 68 95 26	a. 8 6 2 10 6 4 14 9	10 : 24 : 335 : 202 : 186 : 91 : 110 :	a. 11 7 10 8 6 15 9 8	Rs. 11-24-341-214-200-95-119-28-4		136 33	a. 8 4 15 0 12 10 10 9	Rs. 13 24 386 232 230 106 136 39 5	

The share per head of population in India is 3 per cent, of that of the United Kingdom, 6 per cent, of France and Germany, and 9 per cent of the United States.

INLAND TRADE.

The rall and river-borne trade gives some idea of the extent to which the different parts of the country are respectively concerned in the movements of the chief articles of trade. It is a supplement to the sea-borne trade of the country, and shows where the commodities after importation at the ports go for consumption, and whence the ports get the supply for exports outside the country.

The total trade (railed and river-borne) for the twelve months ending March, 1914, as regards quantity, amounted to 1,350,052,000 cwts as compared with 1,376,916,000 cwts in 1913 and 1,080,411,617 cwts, on the average of the previous 3 years. The inland trade of the British Provinces (excluding that of the scaports) was 60-84 per cent. and that of the scaports was 60-84 per cent. The rail and river-borne trade of Calcutta was by far the largest, and represented 18.39 per cent. of the total inland trade of Bombay port, the imports alone accounting for 14 per cent. of the total inland trade of Bombay port, the total inland trade of Bombay port accounting for 14 per cent. of the total inland trade of Bengal (excluding Calcutta amounted to 33.57 per cent. The trade of the Bombay port was 7 per cent. and that of the Bombay Presidency excluding the port, 5'46 per cent. The total inland trade of Bombay Presidency including Bombay port amounted to 12'46 per cent. or a little above one-third of the trade of Bengal with Calcutta.

Navigable Rivers.—Besides the State irrigation works, which are also navigable canals, Madras and Bengal possess other canals which have been constructed solely for purposes of navigation. But the bulk of the water-borne trade passes on certain rivers.

The Indus, the Ganges, and the Brahmaputra are navigable by steamers all the year round, or for the greater part of the year, for hundreds of miles above their mouths, or above the heads of the navigable canals traversing their deltas. The Indus is thus constantly navigable as high as Dera Ismail Khan in the North-West

Frontier Province, 800 miles inland and 250 Fronter Province, 800 miles inian and 250 miles beyond the Sind border. Its tributaries, the Chenab and the Sutlei, are open to small craft all the year round, but there is little traffic above Chinict on the former and Feroze-pore on the latter. The Fulel Canai and the Eastern Nara may be regarded as navigable branches of the Indus. The Ganges is navigable of the second province and decreases also gable as high as Cawnpore, and steamers also pass up the Gogra as far as Fyzabad. Steam navigation on the Indus and the upper Ganges has, however, been greatly reduced by the development of rail traffic, though on the Bengal portion of the Ganges it is still active. The Brahmaputra is navigable by steamers Brahmaputra is navigable by steamers as high as Dibrugarh, and there is steam navigation on its tributary the Surma as far inland as Sylhet and Cachar. The Hooghly is navigable all the year round up to Nadia, and steamers can pass up the Nadia rivers above this point from July to October. The great rivers on the east coast of the Peninsula—the Mahanadi, the Godavari, and the Kistna—are all navigable for some distance above the heads of their deltas, but the traffic on them is not very considerable. Many tributaries or branches of these rivers are also navigable during the monsoon months, and several are open to small craft all the year round. There are, in effect, all round the coast innumerable small rivers, creeks and backwaters affording facilities for water transport which are fully utilised by small native craft; but outside the zone of such operations inland navigation is practically confined to the deltas and to the valleys of the great rivers which form the natural waterways of the country.

As to Burms, there is no Province in which the natural waterways afford greater facilities for inland navigation, or in which it is more extensively practised. In the Arakan Division the Mayu and Kaladan rivers are navigable by steamers during a great part of the year for distances of 50 and 90 miles respectively above Akyab. Many of the other rivers which fall into the Bay of Bengal are similarly navigable for some miles above the seaboard, and native crafts can, of course, proceed

much farther inland. Farther east the great Irrawaddy river, which traverses nearly the whole length of Upper and Lower Burma (excluding Tenasserim) is navigable by steamers at all seasons of the year as high as Bhamo, or more than 500 miles from its mouth, and steam more than 500 miles from its mouth, and steam launches and country boats can proceed much higher, or for some distance to the north of Myitkylms. The numerous deltaic channels which fall into the Bay of Bengal from the Irrawaddy form waterways connected with the main river and with the sea, which are for the most part navigable throughout the year than before ny mony of the riputories of this the most part havigable anoughout the year while higher up many of the tributaries of this river are navigable for some distance above their confluences. Of these the two most important are the Chindwin and Myitnge

rivers, the former of which is navigable by steamers during the monsoon as high as Homal in the twenty-fifth parallel of latitude and by smaller craft as far as Kyaukse. Farther east again are the Sitting and the Salween east again are the sitting and the saween rivers, both of which discharge into the Gulf of Martaban. The former of these is navigable by small steamers during the monsoon as far as Toungoo, and for small craft as far as Pyinmana in Upper Burma. All these rivers have numerous navigable affluents, and branches or mouths which spread fanilke over their deltas and are in navigable communication with each other. There are also, all round the Burma Coast, innumerable croeks and backwaters open to steamers or smaller craft.

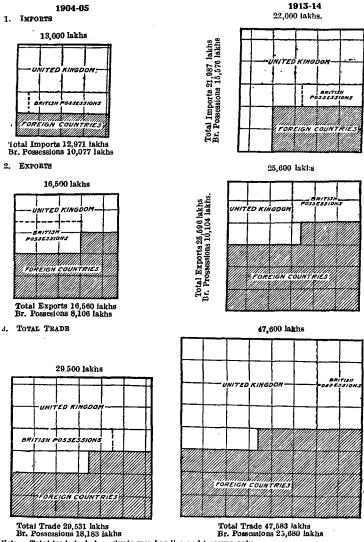
FISCAL POLICY.

reater importance every year in the public there are published articles on Indian Tariff discussions. The country is as sharply divided between Tariff Reformers, or to put it more bluntly. Protectionists, and Free Trades, is strong holders of the two sets of views. Great Britain. No attempt will be made here to

The fiscal question in India is assuming decide between the two schools of thought; but

(For the effect of the war on Indian trade, q. v. India and the War.)

Distribution of trade of British India between British Possessions and Foreign Countries in 1913-14, as compared with a decade ago (1904-05).



Note .—Total trade includes private merchandise and treasure only.

The dotted lines indicate the share of the United Kingdom.

India and Free Trade.

British advocates of the maintenance of Free Trade for India that they are guilty of hypocritical selfishness, and that their real object is to retain the Indian market for themselves. This allegation can only be advanced by con-troversialists who shut their eyes to facts, and ignore the opposition which Free Traders offer to attempts to introduce a Protective Tariff at Home in the interests of British manu-Tacturers. The position adopted by the Free Trader is that the present and ultimate economic good of every country is most effectually secured by giving the people access to the best markets for the satisfaction of their needs. The people of India enjoy this right under Free Trade, as do the people of Great Britain. If the day should come when Great Britain resorts to Protection the moral ground for resorts to Protection the moral ground for maintaining Free Trade in India will have disappeared, and in the event of the Govern-ment of India then proposing to establish a Protective Tariff the British Protectionist Government would have to assent to the pro-posal or adopt the hypocritical attitude which is now attributed to Free Traders. And it may be said here that, if the policy of the Free Trader were to admit British goods into India free of duty. while imposing heavy imposts: Trader were to admit British goods into India free of duty, while imposing heavy imposts on merchandise purchased by India from other countries, the epithets now applied to him unjustly would be justifiable and appropriate in his case. Coming to the concrete aspect of the question, there is undoubtedly great force in the contention that if the Tariff Reform party at Home secured a majority in Parliament, their real troubles would at once begin. It is one thing to indulge in vague platform rhetoric over the desirability of taxonce begin. It is one thing to inquige in vague platform rhetoric over the desirability of taxing the foreigner's goods, and another to frame a Protective Tarill which would not cause serious dislocation of trade and inflict grave injury on large sections of the community. Difficulties would also arise here if the arrowate of the community of the control of the community of the control of the cates of Protection in this country were given a free hand to deal with import duties. Of a free hand to deal with import quites. Of the imports of foreign merchandise into India in the official year 1912-13, Rs. 23 crores consisted of food and drink. A further Rs. 12, crores was made up of "Raw material and produce and articles mainly unmanufactured." Manufactured articles amounted to Rs. 123 habitractured at occess amounted to as. 120 crores, including large classes of manufactures which India does not produce. Considerably more than half consists of cotton piece-goods and other articles of clothing. The framer of a Protective Tariff would therefore be confronted with the facts in the first place prise goods which are not produced in India, acquainted with the conditions that obtain in and, in the second, that unless he taxed the India.

It is not infrequently charged against the clothing and the food of the masses his Fro-ritish advocates of the maintenance of Free tective Tariff would be an exiguous quantity, rade for india that they are guilty of hypomost important, amounting last year to Rs. 141 crores. This commodity, because of its cheap-ness, is largely consumed by the poorer class-es. The greater portion of it comes, of course, from Java, where, owing to the modern scientific methods adopted production is less costly and more efficient than in India. The most effective means of meeting the competition of the Java product is by improving the methods in vogue in India, and this fact happily is receiving practical recognition. But the Protectionist's idea is to shut out foreign sugar Protectionist's idea is to shit out foreign suga-by taxation, a device which would enliance the price of a popular food, and at the same time tend to perpetuate inefficiency in the indigenous industry. When this subject was fully debated in the Imperial Legislative Council some two years ago, Mr. Malivaya asserted that he would not shrink from imposing a duty of 30 per cent. or even more on imported sugar. It was pointed out, however, by Mr. Gokhale, that in order to give effective protection to the indigenous industry a duty of 80 per cent. would be necessary.

A widespread desire no doubt exists among Indian politicians to impose import duties on cotton cioth. The effect of such a tax would be to raise the cost of the clothing of a population, the correlations of the control of the completion of the completion. population, the overwhelming majority of whom derive their livelihood from cultivating the soil. They have no voice in deciding the policy of the Government, and no knowledge of the opinions and speeches of Indian public men. Their best interests are obviously served by enabling them to exchange their surplus produce on the most favourable terms for the manufactured articles which they require for their comfort or for the purposes of their daily avocations. This they can do under Free Trade, and it is the solemn duty of the Gov-ernment to consider their needs rather than the claims of the wealthy and influential advocates of a Protective Tariff. Great industries have sprung up in India without the adventitious aid of Protection, and there is every reason to hope that the field will be greatly extended when wealthy Indians show more willingness to embark their capital in industrial enterprises. But if any class of manufacturers succeeded in inducing the Government to subsidise it by means of Protective duties. 8 deafening and unreasoning clamour would arise from many directions for similar favours. The grave possibilities that lie here will be appreciated by all who have studied the history

Indian Tariff Possibilities.

BY M. DE P. WEBB, C.I.E., (Author of "Advance India." etc).

The expediency of subordinating every social, ed from the following extract from the official economic, political and imperial consideration to the attainment of cheapness in consumption has never been recognised or admitted by Indian thinkers. For this reason, the abolition of the general five per cent. Import duties in 1882 in obedience to the demands of English Free Traders aroused no enthusiasm in India. Nor did their re-imposition in 1894 (when the Govern-ment of India, owing to financial stress, were compelled to seek additional revenues), lead to any general protest on the part of Indian con-sumers or others. The 1894 Customs Tariff is still in operation. Its general design and modiis still in operation. Its general cosign and most fications foreshadow a departure from the rigid formulæ of the extreme Free Trader. Thus, although the reduction of the general 5 per cent. duty to 3½ per cent. in the case of cotton piece-goods and certain other manufactured cotton, goods, and the imposition of a 3½ per cent. Excise
Duty on the products of the Indian Cotton
Mills, reveal a deplorable sacrifice of Indian interests to the demands of the cotton manufacturers of the English Midlands, the lower rate of duty of one per cent. on many iron manufac-factures, and the admission of Railway material. power machinery, printing presses and ink, coal, manure, works of art, lead sheets for tea chests, and other special articles free of duty indicates a desire on the part of Government to utilise the tariff for the encouragement of certain kinds of economic development in India. This move in the direction of a scientific tariff is one that is heartly welcomed in India.

A further step towards a Tariff appropriate alike for Indian and Imperial requirements was taken in March, 1913, when the Hon. Sir Gangadhur Chitnavis, Member for the Central Provinces, moved the following Resolution in the Imperial Legislative Council:—

'That this Council recommends to the dovernor General in Council the desirability, in view of the loss of the opium revenue, of considering financial measures for strengthening the resources of the Government, with special reference to the possibility of increasing the revenue under a system of Preferential Tariffs with the United Kingdom and the Colonies.

The mover argued that the benefits to India that would arise from the adoption of the principle here indicated, would be well worth the price that India might have to pay therefor. Sir Guy Flectwood Wilson on behalf of the Government of India, sympathetically re-viewed the general situation at some length, but suggested "further consideration of the intricate and delicate issues" before committing the Imperial Council to the recommenda-tion embodied in Sir Gangadhur Chitnavis' Resolution. The Resolution was according-ity withdrawn. Sir Guy Fleetwood Wilson's very able speech will repay careful study.

Tariff Reform League's Views.

Handbook of the Tariff Reform League :-

"Preference would mean to India that the United Kingdom and the Colonies would give freur entry to Indian tea, coffee, sugar, wheat, and all Indian staple products; and it would mean to us that the Indian import duty on a large number of British manufactures would be either abolished or reduced."

The fact that India produces more wheat than any other part of the Empire, and more tea, coffee, sugar, cotton, jute, indigo and other dye stuffs, oil-seeds, undressed leather and cordage than all the rest of the Empire put together, makes India's position in any Imperial scheme of Preferential Trade one of paramount importance to all who aim at the progressive development of the Empire's Tariff Systems.

Industrial Expansion needed.

One of India's important needs and legitimate ambitions at the present day is industrial expansion (1) to relieve her congested agricul-tural industries, (2) to provide further occupa-tions for those located in districts liable to rain failure, and (3) to create a variety and multiplicity of swadeshi commercial undertakings and home markets suitable and profitable for and home markets suitable and prolutable lost indians of all tastes, capacities, and races. These needs and ambitions can be met by modifications of the Indian Customs Tariff which, whilst not adversely affecting British interests, would materially assist India's foreign and internal trade. Thus, the manufacture in India ternal trade. Thus, the manuacture in muse of sugar, shawls, cotton, goods of low qualities, steel, metal work, enamelled ware, carpets, lace, pottery, indigo, glassware, oils vegetable and mineral, toys, perfumes, pencils, lamps, etc., none of which are supplied in large quantities by the United Kingdom, could be encouraged by a scientific adjustment of the Indian Tariff. With regard to Indian exports, Great Britain could give encouragement to India's wheat, jute, indigo, tea, coffee, tobacco, etc., whilst Foreign nations could be approached with con-Foreign nations could be approached with con-fidence if India possessed retaliatory powers with regard to her tariff. Russia's preference for Chinese tea, for example, might be modified if India's regard for Russian petroleum were restricted. So, too, Germany's discrimination with regard to manufactured jute, cleaned resetc., might be met by an Indian discrimination with regard to German manufactures. The United States and France might be similarly considered; and all without the slightest risk to Indian or British commercial interests.

Protection must come.

These considerations bring us to the conclusion that India has much to gain economically and politically, and little or nothing to lose by and pointing, and little or nothing to lose by proceeding a step further in the development of her Tariff. As the late Sir Edward Law pointed out, "it is the natural desire of the great protectionist countries of the world to keep the peoples of India in the position of hewers of wood and drawers of water for their (t. e. foreign wood and drawers of water for their (t. e. foreign country and the position of hewers of water for their (t. e. foreign country). Some idea of the direction in which a scheme of inter-Imperial Preferential Trade would nations') manufacturers. Ought such a tend, so far as India is concerned, may be gather-isituation to be tolerated when we hold the re-

INDIAN COTTON DUTIES ACT.

The origin of this fiscal measure dates back fabrics to the general import duty of 5 per cent 1894 when the embarassment caused to the ad valorem. The second imposed an Excise to 1894 when the embarassment caused to the finances of India by the fall in exchange drove the Government of India to the necessity of adopting measures to increase their sources of revenue. Among these measures was the re-imposition of the Customs Tariff which had been in force prior to 1882 subject, however, to this difference that cotton yarns and fabrics, which had formerly been subjected to an import duty, were in 1894, excluded from the list of dutiable articles. This partial re-imposition of import duties had been recommended by the Herschell Commission which, in reporting in 1893 on the currency question, had favoured this method of adding to the revenue as being the least likely to excite opposition. In point of fact, however, this recommendation which was carried into effect in the Indian Tariff Act of March 1894 gave rise to very marked opposition. In support of their policy the Government appealed to the Resolutions passed in 1877 and reaffirmed in 1879 by the House of Commons, the first of which had condemned the levy of import duties on cotton fabrics imported into India as "being contrary to sound commercial policy," while the latter called upon the Government of India to effect "the complete abolition of these duties as being unjust alike to the Indian consumer and to the English producer." It was, how-ever, an open secret that the decision to exclude from the list of dutiable articles cotton yarns and fabrics was not the decision of the Governand mortes was not one decision to the covering ment of India but that of the Secretary of State. It was pertinently pointed out that the volume of trade in cotton goods and yarns then represented nearly one-half of yarms then represented nearly one-hair of the total imports from abroad, and that the exemption of these important commodities single other important commodities when practically every single other commodity was being subjected to an import duty could not be justified on its merits as a sound fiscal measure, much less when it was an admitted fact that the Budget would still show a deficit.

Excise Duties Imposed.—The opposi-tion to this measure, though it failed to secure its rejection in the Legislative Council, was strong enough to induce the Secretary of State to reconsider the matter. Yielding to the unit-ed representations of the Government of India and of Indian public opinion, His Majesty's Government eventually agreed to the re-imposition of import duties on cotton yarns and fabrics provided that it could be shown that such a measure was necessitated by the position of Indian finances, and that it was combined with an Excise duty which would deprive the import tax of any protective character. Accordingly in December 1894, consequent on the further deterioration in the financial position, two bills were introduced in the Legislative Council.

medy in our own hands? Can we expect the field in accordance with the views of India's in-people of India to accept it with equani-dustrial and political leaders. Those views mity?"Obviously, not. It is sometimes thought unanimously favour protection for India's mity r'Udviously, not. It is sometimes thought by rigid free traders in the United Kingdom that young but growing industries, protection against England can continue indefinitely to impose all competition if possible, but in any case, proher free-imports policy on India. This is a grave misapprehension. Sooner or later, pro-bother free-imports and the competition of those foreign grave misapprehension. Sooner or later, pro-bother free-imports and the competition of the competition of the competition of the competition of the competition of the competition of India's manufactured products.

duty on all cotton yarns of 20's and above produced by Mills in British India. In introducing this latter Bill the then Finance Minister, Sir James Westland, was careful to explain that the policy underlying its provisions had been imposed on the Government of India by the Secretary of State in pursuance of the Resolution of the House of Commons quoted above. The provisions of this particular Bill are of little interest. From the first it was recognised that they were unpractical. Lancashire and Indian spinners disagreed as to the point at which the line should be drawn exempting Indian yarns from the Excise Duty. Practical diffi-culties were pointed out by Indian spinners as to the impossibility of spinning precisely to a particular count. From the Lancashire point of view it was contended that the Bill offered facilities for evasion while it was admitted that under the system adopted in the Bill, the taxation of Indian and Lancashire products was not being carried out on a similar basis.

Act of 1896 .- The Act was in fact doomed to be short-lived, and in December 1895 the Goverement of India were compelled to re-consider the whole position and to introduce an entirely new measure which became law in January 1896 as the Indian Cotton Duties Act II of 1896. This measure proceeded from two conclusions, In measure proceeded from two conclusions, namely, that no attempt should be made to obtain any duty from yarns whether imported or locally manufactured, and that an equal rate of duty should be applied to all woven goods whether imported or of Indian origin. With the obtained of the should be applied to all woven goods whether imported or of Indian origin. Whether imported or of indian origin. With the object of conciliating the opposition, the rate of duty was fixed at 3\frac{1}{2} per cent. as opposed to the general rate of Customs duty of 5 per cent. The main provisions of the Act provided that the assessment for the purposes of collecting the Excise duty should be based on returns submitted by the mill-owner; and that provision should be made for a rebate in the case of woven goods expressed out of India the case of woven goods exported out of India. No control beyond a requirement that statistical returns should be furnished was attempted in respect of spinning mills. On the other hand certain concessions in the matter of import duty on Mill stores were made by executive order so as to place Indian Mills on a footing more or less equal to their Lancashire competi-

Criticisms of the Measure.-It is not possible within the limits of the present article to do more than summarise the criticisms with which this measure was received in India. Much of the opposition was based on grounds of a transient character; as for instance that the Indian industry was then in a state of continued depression and that it had been hard hit, The first of these subjected cotton yarns and particularly in respect of its export trade, by

the currency legislation, and by the uncertainty as to the fiscal policy of Government. In some quarters objection was offered to the exemption of yarn, which it was alleged, would place the Indian hand weaving industry at an advantage with the Indian power weaving industry. But the hostility to this measure, as also to the But the hostility to this measure, as also to the earlier measures already described, clearly proceeded from the feeling that the policy of the Government of India and of the Secretary of State had been dictated by Lancashire, and that the action of Lancashire was due not so much to the fact that there was any real com-petition between Indian and Manchester goods, but to a desire to handicap the Indian industry whose progress was already causing uneasiness to Lancashire interests. It was argued that the imports from Lancashire were practically all of the higher counts, which, for climatic and other reasons, Indian mills could not produce; that in any case the advantage to the Indian tinat in any case the advantage to the Indian millowner of the import duty was inconsiderable and was counterbalanced by certain draw-backs, arising from the inferiority of Indian labour, which could not be overcome; and that this advantage, such as it was, could scarcely be said to have a protective character, in view of the higher cost of initial equipment in the case of an Indian mill which has to import its machinery, and of working expenses consequent on the scarcity of skilled labour and on the necessity of importing stores required in the production of cloth. Finally, from the stand-point of the consumer, very severe criticism was directed against the reduction, in favour of imported cotton goods, of the general rate of duty from 5 per cent. to 31 per cent. on the ground that the effect of the legislation would relieve the richer classes who were consumers of the finer Manchester fabrics and impose new taxation on the poorer classes whose requirements were met by the Indian mills.

New Factors in the Situation.—Since the passing of this measure into law the policy of the Government of India in this respect has frequently been the subject of attack in the press and in the Legislative Councils while it has also formed the subject of continued representations by the industrial interests affected and political organizations. In more recent years the agitation in favour of the abolition of the Excise duties has been revived by the growth in England of a strong body of public opinion in opposition to the policy of Free Trade. Advantage has been taken of this new phase in English economic thought to press on behalf of India the acceptance of a policy of Protection and the removal of the Excise duties is now claimed by the opponents to this measure as a necessary corollary of the application to the British Empire of the principles associated with the name of Mr. Chamberlain. A new factor in the situation which has strengthened the position of those who are in opposition to the Excise duties is to be found in the severe competition which Indian mills have to face in China as well as in India from the Japanese industry. The Japanese market was lost to India in the early years of this century. More recently, however, Japan has teneful as a competitor with India into the china market, while within the last few years it has pushed its advantage as against the in 1913-14, 54 lakhs

Indian millowner in the Indian market itself. Again it is claimed that the recent enhancement of the silver duty has materially affected the position of the Indian spinner who relied on the China market. On two occasions within the last five years the question of Excise duties has come prominently to the front as a result of debates in the Viceroy's Council. The official attitude is firmly based on the position that the Excise duties stand and fall with the import duties. Against such an attitude all arguments based either on the advantages of a Protectionist as opposed to a Free Trade policy or on the handicap to which the present system exposes the Indian millowner can, of course, make no head way. The Government of India are confronted with a heavy recurring loss in their revenues as a result of the abolition of the opium traffic. The import duties on cotton piece-goods represent nearly fifteen percent. of the total revenue collected as Customs duty while the Excise duty itself realised no less than 47 lakhs in 1912-13. The strength of the arguments which support the Government position is so patent that the movement in favour of the total abolition of the Excise in favour of the total abolition of the Excise duty is gradually giving way to a feeling that a solution may be found in maintaining the Excise duty at its present rate while enhancing the import duties to the level of the general rate of Customs duty. This policy, which is frankly of a protective character, can to some slight extent be supported by the change in the resition of Jenceships in respect of the imports position of Lancashire in respect of the imports of cotton piece-goods. In 1894 when the duties were first imposed the share of Lancashire was no less than 98 per cent. of the total import trade in piece-goods. Foreign competition, notably from Japan, has reduced its share to 91 per cent. and it may be expected that the success of this attack on the position of Lanca-shire will in the near future loom largely in the arguments of those who favour a modified form of protection within the Empire.

Statistics of the Industry.—The main statistical features of the industry may briefly be referred to in illustration of the effects of the legislation discussed above. The total production of varn in Indian mills has risen from an average in 1896-1900 of 443 million lbs. to 682,703,031 yds. of which 198,000,000 were exported. In the lower counts the increase has been from 423 to 616,000,000 yds., counts above 25 having increased from 20,000,000 yds, counts above 25 having increased from 20,000,000 yds, to 66,000,000 yds, On the other hand, the imports of yarn from the United Kingdom representing about 6 per cent. of the total production in British India have varied from 42,000,000 yds. to 44,000,000 yds. of which 42,000,000 are of counts above 25. The number of spindles has increased from 34 millions in 1894-95 to just over 64 millions in 1913-14.

The development of weaving has been even more marked, Looms numbered, in 1913-14, 99,360 as against 31,628 in 1894-95 while the

Banking in India.

Of the three Presidency Banks the Bank of Bengal which commenced business in the year 1806 is by far the oldest. It was followed by the Bank of Bombay in 1840 and by the Bank of Madras in 1843, but the former was wound up in the year 1867 and the present Bank dates from the year 1868.

To commence with and for some considerable time thereafter Government had a very large interest in all three Banks, holding as they did a large proportion of the share capital and having the right to nominate a number of the Directors. It was decided however in 1876 that this connection should cease and Government holding of shares was accordingly realised in that year and the right to be represented on the Directorates was given up at the same time. Government are still entitled, however, to audit the Banks' accounts at any time if they deem this necessary, to call for any information touching the affairs of the Banks and the production of any documents relative thereto, and may also require the publication of such statements of assets and liabilities at such intervals and in such form and manner as may be thought fit. The Banks' Agreements with Government are usually arranged for a period of ten years at a time and now-adays provide for the most part for the carrying on at the head offices and branches of the ordinary banking business of Government in India and for the management and conduct in the three Presidency towns of the Govern-ment loans. The management of the Government Savings Bank was at one time entrusted to the Bank, but this was handed over to the Post Office in the year 1896.

Paper Currency.

The Banks had the right to issue currency notes until the year 1862; but in that year this privilege was withdrawn and to compensate the Banks for being deprived of this right, Government decided to deposit the whole of their balances at the Presidency towns with the Banks. This practice held good until the year 1876, when the Reserve Treasuries were formed; but since that year Government balances, which are all payable at call, have only been maintained at a figure sufficient to meet the demands of Government and sufficient also to compensate the Banks in part for the work of keeping the accounts. There is ro definite undertaking on the part of Government to keep any balance with the Banks either at the head offices or branches; but there is a stipulation that in the event of the balance at the head office of each Bank falling below a certain stated figure, which varies in the case of each Bank, Government will pay interest on the deficit.

t: Government Deposits.

The following statement shows the Government deposits with each Bank at various periods during the last 40 years or so.

In Lakhs of rupees.

		Bank	Bank of	Bank	Total.
		of			TOURI.
		Bengal.	Bombay	Madras.	<u> </u>
			[ì	1
30 June					
1875		496	91	124	711
1876		409	195	115	719
1881		230	61	53	344
1886		329	82	39	450
1891		332	97	53	482
1896		225	88	57	370
1901	••	187	90	63	340
1901	• •	186	93	46	325
	• •	198	129	77	404
1911	• •				440
1912	••	210	155	75	
1913		247	167	68	482
1914		290	197	93	580
		ļ	1	l	1

General Banking Business.

This is regulated by the Presidency Banks Act, 1876, under which Act all three Banks are now working. The various descriptions of business which the Banks may transact are clearly laid down in Sec. 36 oil the Act, and it is expressly provided in Sec. 37 that the Banks shall not transact any kind of banking business other than those sanctioned in Sec. 36. Briefly stated the main classes of business which Banks may engage in are as follows:—

- (1) Investing of money in any securities of the Government of India or of the United Kingdom of Great Britain and Ireland. the stock or debentures of, or shares in Railways bearing a Government guarantee in respect of interest and the debentures and securities of any Municipal body or Port Trust in India or of the Bombay Improvement Trust and the altering, converting and transposing of such investments.
- (2) Advancing of money against any of the securities specified above or against bullion or other goods which or the documents of title to which are deposited with or assigned to the Bank as security.
- (3) Advancing of money against accepted bills of Exchange and promissory notes.
- (4) Drawing, discounting, buying and selling of bills of exchange and other negotiable securities payable in India or Ceylon.
- (5) Receiving deposits.
- (6) Receiving securities for safe custody and realisation of interest, &c., from constituents of the Bank.
- (7) Buying and selling of gold and silver; whether coined or uncoined.
- (8) Transacting pecuniary agency business on commission. The principal restrictions placed on the

The principal restrictions placed on the business of the Banks are as follows:—

- (1) The drawing, discounting, buying and selling of bills of exchange and other negotiable securities is confined to bills and securities payable in India and
- (2) Borrowing of money is only permitted in India.
- (3) Loans or advances upon mortgage or in any other manner upon the security of any immovable property or the documents of title relating thereto is expressly prohibited.
- (4) The amount which may be advanced to any individual or partnership by way of discount or on personal security is limited to an amount prescribed in the Bye-Laws of the Banks, such Bye-Laws having previously been approved by Government.
- (5) Loans or advances cannot be granted for a longer period than six months at a time.
- (6) Discounts cannot be made or advances on personal security be given, unless such discounts or advances carry with them the several responsibilities of at least two persons or firms unconnected with each other in general partnership.

Various representations have been made to Government by the Banks to have certain of these restrictions withdrawn, particularly those referred to under Nos. 1 and 2, which Capital, Reserve and latter effectually prevent the Banks from doing are shown below:—

discounting, buying and anything in the nature of exchange busine and from having access to the London mone market for borrowing purposes. The restri tions in question were imposed at a time whithe Government deposits formed a very lar proportion of the Banks' total deposit as when also, owing to the instability of exchang there was some danger of losses being incurred in engaging in that class of business. The Banks have contended however that as Govern ment deposits now form a very small propo tion of the total deposits, and as exchan has definitely been fixed at 16 pence there no further necessity for the restrictions; an have asked that they should now be withdraw It has further been argued that as the Presidence Banks are the ultimate resort of the mone market in India, it is necessary, in the interest of trade, that the Banks should have son means open to them of increasing their resou ces in India in times of pressure and that th best means of giving them this power is to per mit them to borrow in London. The Govern ment of India were prepared to meet the Banks wishes in the above connection to a great exten in the year 1903; but the Secretary of Stat did not approve of the Government proposals and they were finally negatived in 1906.

Government Deposits.

The proportions which Government deposit have borne from time to time to the tota Capital, Reserve and deposit of the three Bank

In Lakhs of Runees.

				1 16 JJUN 160	of itupees.		
	_		1 Capital.	Reserve.	3 Government deposits.	4 Other deposite.	Proportion of Government deposits to 1, 2, 5 & 4.
31st Dece	ember.						
1876			350	42	395	456	31.7 per cent.
1881			350	61	333	542	25.8 ,,
1886			350	82	352	625	24.9 "
1891			350	97	297	1412	13.7 ,.
1896			350	158	299	1292	14.2 "
1901			360	213	340	1463	14.3 "
1906			360	279	307	2745	8-3 "
1907			360	294	335	2811	8.8 ;,
1908			360	309	325	2861	8.4 ,,
1909			360	318	319	3265	7.4 ,,
1910			360	331	423	3234	9.7 "
1911			360	340	438	3419	9.6 "
1912			375	361	426	3578	9.0 ;;
1913			375	370	587	3644	11.8 "

The Banks have also the management of the debt of a number of the Municipalities, Port Trusts and Improvement Trusts throughout India.

Government policy in regard to the disposal of their surplus treasury balances in India has been strongly criticised at various times during the last thirty years or so, and it has been argued that the high rates of interest which are so common a feature in India when the crops come to be marketed are to a very large crops come to be marketed are to a very large extent due to Government action in withdraw-ing money from the market when it is most needed and locking it up in the Reserve Trea-suries. This question was considered at some length by the Royal Commission on Indian Finance and Currency q. v. which arrived at the conclusion that the present methods of dealing with the balances were open to criticism. dealing with the balances were open to criticism. The Commission further stated that the most obvious remedy would be to close the Reserve Treasuries and place the whole of the Government balances in the Presidency towns with the Presidency Banks; but their final recommendation in this connection was that Governmentation ment should make loans from their balances | India have the question of appointing sucto the Presidency Banks—such loans to be | Committee presently under consideration,

within the absolute discretion of Government and to be granted only on good security and for short periods. It is not known how far the Government of India are prepared to accept the Commission's recommendation in this respect; but it is understood that the matter

is presently under consideration.

The question of the establishment of a State The question of the establishment or a state Bank was considered at some length by the Commission and a considerable mass of evidence was taken on this point. The opinions offered were however very conflicting, and although a draft scheme for such a Bank was drawn up by two of the Members of the Commission, the Commission as a whole finally came to the Commission as a whole nnany came to the conclusion that they were not in a position to make recommendations one way or the other on the question of a State Bank. It was suggested that a small expert body should be appointed in India to study the whole question and it is understood that the Government of India have the question of appointing such a

Recent Progress.

The following statements shew the progress made by the three Banks within recent years :-

In Lakhs of Rupees.

BANK OF BENGAL

_		Capital.	Reserve.	Govt. depo- sits.	Other depo- sits.	Cash.	Invest- ments.	Dividend for year.
31st December. 1880 1885 1890 1895 1900 1905 1907 1908 1909 1909 1910 1911 1912 1913	::	200 200 200 200 200 200 200 200 200 200	25 41 47 68 103 140 150 157 165 170 175 180 185	202 145 226 184 155 167 160 187 178 168 198 270 234 301	502 383 666 677 582 1204 1505 1573 1573 1575 1760 1609 1677 1711	483 312 639 422 243 396 528 460 507 615 514 729 685 840	153 116 208 182 136 181 149 279 349 411 368 321 310 319	8½ per cent. 9½ " 10 " 11 " 12 " 12 " 13 " 14 " 14 " 14 " 14 " 14 "

BANK OF BOMBAY.

1880 1885 1890 1895 1906 1905 1906 1908 1909 1910 1911 1912 1913		::	100 100 100 100 100 100 100 100 100 100	22 25 33 51 70 87 92 96 101 103 105 106	39 53 83 76 87 92 101 112 94 120 152 107 117 200	265 276 619 358 432 676 832 821 832 1035 1053 1104 1124 1015	159 218 573 228 129 259 354 324 377 415 436 463 315	79 33 78 105 89 158 177 164 149 163 149 208 210 232	7½ per cent 7½ % 10 % 11 " 11 " 12 " 12 " 13 " 13 " 14 " 14 " 14 " 14 "
--	--	----	--	--	---	---	---	--	---

BANK OF MADRAS.

	_		Capital.	Reserve.	Govt. depo- sits.	Other depo- sits.	Cash.	Invest- ments.		idend year,
1885			50	8	31	107	76	19	7	per cent.
1890			50	14	47	220 .	155	45	101	· ,;
1895			50	16	45	278	144	45	10	**
1900	••	••	60	22	. 35	260	82	67	8	19
1905	٠		60	30	41	344	140	71	10	;;
1906	•••		60	32	54	355	151	81	10	"
1907		••	60	36	35	416	162	84	10	77
1908		••	60	40	52	447	153	84	11	"
1909			60	44	49	500	141	79	12	,,
1910	•••		60	48	72	567	184	85	12	,,
1911		- ::	60	52	59	625	165	104	12	"
1912	::	- ::	75	70	75	743	196	113	12	**
1913	••	.: 1	75	73	86	805	219	117	12	*,

Note. - (The Banks have power under Sec. 36 (1) to draw Bills of Exchange payable out of India under certain stated circumstances, but this permission is of comparatively little importance.)

Branches.

BANK OF BENGAL.

Calcutta-

Harrison Road, Clive Street & Park Street.

gra, Akyab, Allahabad, Benares, Cawnpore, Chittagong, Dacca, Delhi, Hyderabad Dec-can, Jalpaiguri, Lahore, Lucknow, Moulmein, Nagpore, Naraingunge, Patna, Rangoon, Secunderabad, Simla.

Pay Offices. Chandpore, Serajgunge and Bombay (Agency).
BANK OF BOMBAY.

hmedabad, Akola, Amraoti, Broach, Hyde-rabad (Sind), Indore, Jalgaon, Karachi, Poona, Rajkot, Sholapur, Sukkur & Surat. BANK OF MADRAS. Ahmedabad.

Alleppy, Bangalore, Bimlipatam, Calleut, Co-conada, Cochin, Colmbatore, Colombo, Gun-tur, Mangalore, Masulipatam, Negapatam, Ootacamund, Tellicherry & Tutlcorin.

THE EXCHANGE BANKS.

The Banks carrying on Exchange business in India are merely branch agencies of Banks m mona are merely branch agencies of Banks having their head offices in London, on the Continent, or in the Far East and the United States. Originally their business was confined almost exclusively to the financing of the external trade of India; but in recent years most of them, while continuing to finance this part of India's trade, have also taken an active part in the financing of the internal portion also at the places where their branches are situated.

At one time the Banks carried on their operations in India almost entirely with money borrowed elsewhere, principally in London— the home offices of the Banks attracting dethe home offices of the Banks attracting de-posits for use in India by offering rates of in-terest much higher than the English Banks were able to quote. Within recent years how-ever it has been discovered that it is possible to attract deposits in India on quite as favourable terms as can be done in London and a very large proportion of the financing done by the Exchange Banks is now carried through by means of money actually borrowed in India. No information is available as to how far each Bank has secured deposits in India but the following statement published by the Director-General of Statistics in India shows how rapidly such deposits have grown in the aggregate within recent years.

TOTAL DEPOSITS OF ALL EXCHANGE BANKS SECURED IN INDIA.

	DECORDE	*** ****		
	In Lakhs	of Rup	ees.	
1870				52
1875				106
1880				839
1885	.,			475
1890				753
1895				1030
1900			• •	1050
1901				1183
1902			• •	1370
1903				1614
1904				1632
1905		••	• •	1704
1906			• •	1808
1907			• •	1917
1908			• •	1951
1909				2027
1910			• •	2479
1911				2816

Exchange Banks' Investments.

Turning now to the question of the investment of the Banks' resources, so far as it concerns India, this to a great extent consists of the purchase of bills drawn against imports and exports to and from India.

The financing of the import trade originates and i: carried through however for the most

cipally in collecting the amount of the bills at maturity and in furnishing their other branches with information as to the means and standes with information as to the means and stand-ing of the drawes of the bills, and it is as re-gards the export business that the Indian Branches are more immediately concerned. The Exchange Banks have practically a monopoly of the export finance in India and in view of the dimensions of the trade which has to be dealt with the Banks would under ordinary circumstances require to utilise a very large proportion of their resources in carrying through the business. They are able however by a system of rediscount in Loudon to limit the employment of their own resources to a comparatively small figure in relation to the busiparatively small figure in relation to the ousiness they actually put through. No definite information can be secured as to the extent to which rediscounting in London is carried on but the following figures appearing in the balance sheets dated 31st December 1913 of the undernoted Banks will give some idea of this.

LIABILITY ON BILLS OF EXCHANGE RE-DIS-COUNTED AND STILL CURRENT.

	£
Chartered Bank of India	. 7.364.000
Eastern Bank, Ld	1,918,000
Hongkong and Shanghai Bankin Corporation.	g 9,829,000
Mercantile Bank of India, Ld.	. 3,536,000
National Bank of India, Ld	
	30,646,000

The above figures do not of course relate to re-discounts of Indian bills alone, as the Banks operate in other parts of the world also, but it may safely be inferred that bills drawn in India form a very large proportion of the whole.

part by Branches outside of India, the Indian or be accompanied by the documents relating Branches' share in the business consisting prin- to the goods in respect of which they are drawn. Most of them are drawn on well known firms at home or against credits opened by Banks or financial houses in England and bearing as they do an Exchange Bank endorsement they are readily taken up by the discount houses and Banks in London. Any bills purchased in India are sent home by the first possible Mail so that presuming they are rediscounted as soon as they reach London the Exchange Banks are able to secure the return of their money in about 16 or 17 days instead of having to wait for three months which would be the case if they were unable to rediscount. It must not be assumed however that all bills are rediscounted as soon as they reach London as at times it suits the Banks to hold up the bills in anticipation of a fall in the London discount rate while on occasions also the Banks prefer to hold the bills on their own account as an investment until maturity.

The Banks place themselves in funds in India

for the purpose of purchasing export bills in a variety of ways of which the following are

the principal:-

(1) Proceeds of import bills as they mature. (2) Sale of drafts and telegraphic transfers payable in London and elsewhere out of India.

(3) Purchase of Council Bills and Telegraphic Transfers payable in India from

the Secretary of State.

(4) Imports of bar gold and silver bullion.(5) Imports of sovereigns from London. Egypt or Australia

The remaining business transacted by the Banks in India is of the usual nature and need not be given in detail.

The following is a statement of the position The bills against exports are largely drawn of the various Exchange Banks carrying on at three months' sight and may either be "clean" business in India as at 31st December 1913.

In Thousands of £.

	Capital.	Reserve.	Deposits.	Cash and Investment
Chartered Bank of India Comptoir National D' Escompte de Paris. Paris. Delhi and London Bank, I.d. Eastern Bank, I.d. Hongkong & Shanghai Bank International Banking Corpn. Mercantile Bank of India National Bank of India National Bank of India National Bank of India National Bank of Shanghai Bank Vassa Asiatic Bank (1912) Yokohama Specie Bank	1200	1700	17127	6097
	6 8000	1636	63997	9518
	337	17	1696	349
	400	15	1675	690
	1500	3245	29818	7919
	650	650	4486	2435
	562	465	5303	1760
	1000	1040	14876	4350
	4745	2500	35847	7884
	3000	1855	18971	5945

JOINT STOCK BANKS.

Previous to 1906 there were few Banks of | Since that time there has been a perfect stream this description operating in India, and such as were then in existence were of comparatively small importance and had their business consmall importance and had their business confined to a very restricted area. The rapid development of this class of Bank, which has been so marked a feature in Banking within recent years, really had its origin in Bombay the first few years of their existence, but it and set in with the establishment of the Bank was generally suspected in well informed circles of India and the Indian Specie Bank in 1906.

of new flotations, and although many of the new Companies confine themselves to legitimate banking business, on the other hand a very large

of a very speculative and unsafe character and it was a matter of no great surprise to many people when it became known about a year ago that some of the Banks were in difficulties.

The first important failure to take place was that of the People's Rank of India and the loss of confidence caused by the failure of that Bank resulted in a very large number of other failures, the principal being that of the Indian Specie Bank.

The public have for the time being lost much of their confidence in this class of Bank and deposits to a very large extent have been withdrawn and it is feared that a large portion of the money has gone back into hoards. This is very unfortunate as many of the Banke, particularly the older established concerns, have always been recognised as being conducted on safe and prudent lines.

The following shows the position of the better known existing Banks as it appears in the latest available Balance Sheets:—

In Lakhs of Rupess.

					
		Capital.	Reserve.	Deposits.	Cash and Investments
		25 30	36 40	676 539	175 227
	::	10 50	2 5	95 240	24 64
::	::	10 16	4	15 21	10 10
::	::	8 12	• 2	22 19	5 3
::	::	15 3	1 1	40 22	22 5
::	::	10 2	1	22 5	7 ±
missic	on .	15	7.	8	4
		5	4	24	5
::	::	6 6	iöş	34 156	6 66
::		11 10	10	105 4	48 4
	 	amission	Capital.		Capital. Reserve. Deposits. 25 36 676 30 40 530 10 2 95 50 5 240 16 4 21 16 4 21 12 2 19 15 1 40 3 1 22 10 1 22 5 4 24 6 101 156 6 104 156 15 1 24

The principal Banks which have gone into liquidation during the last twelve or eighteen months are given below along with a Statement of their Capital Reserve and deposits as at the date of the latest available Balanco Sheets:—

In Lakhs of Rupees.

					Capital.	Reserve.	Deposits.
Bank of Upper India (1912)					10	9.	191
Bombay Banking Co					1		15
Credit Bank of India, Ld.					10	·	51
Indian Specie Bank, Ld					75	15	270
Kathiawad and Ahmedabad Ba	nking	Corpo	oration		7]	23
Lahore Bank, Ld. (1912)					1		28
People's Bank of India, Ld.					12	2	127
Punjab Co-operative Bank, Ld.	(1912)				7	2	60
			•	,		11	

Growth of Joint Stock Banks.

The following figures appearing in the Report of the Director General of Statistics shows the growth of the Capital, Reserve and Deposits of the principal Joint Stock Banks registered

	In Lakh	s of rupees	i .
	Capital.	Reserve.	Deposits.
1870	 9	1	13
1875	 14	2	27
1880	 18	3	63
1885	 18	5	94
1800	23	17	270

		Capital.	Reserve.	Deposits.
1895		63	31	566
1900		82	45	807
1905		84	77	· 1198
1906		133	56	1155
1907	• •	229	63	1400
1908		239	69	1626
1909	• •	266	87	2049
1910		275	100	2565
1911		285	126	2529

No later figures are obtainable, but it is almost certain that the figures for deposits shown for the year 1911 have been very largely reduced of late.

NATIVE PRIVATE BANKERS AND SHROFFS.

Native private Dankers and Shrohs hourshire. point that the assistance of the Dahas a cauchy in India long before Joint Stock Banks were into requisition. The shroffs do this by taking ever thought of, and it seems likely that they a number of the bills they already hold to the will continue to thrive for some very considerBanks for discount under their endorsement will continue to thrive for some very considerable time to come. The use of the word "Shroff" is usually associated with a person who charges usurious rates of interest to impecunious people, but this is hardly fair to the people known as "shroffs" in banking circles, as there is no doubt that the latter are of very real service to the business community and of very great assistance to Banks in India. Under present conditions the Banks in India can never hope to be able to get into sufficiently close touch with the affairs of the vast trading community in India to enable them to grant accom-modation to more than a few of these traders direct, and it is in his capacity as middleman that the shroff proves of such great service. In this capacity also he brings a very considerable volume of business within the scope of the Presidency Banks Act, and enables the of one Presidency Banks act, and enables one Presidency Banks to give accommodation which, without his assistance, the Banks would not be permitted to give. The shroff's position as an intermediary between the trading community and the Banks usually arises in something after the following manner. A Shopkeeper in the bazaar, with limited means of his own, finds that, after uples at the source of the state own, finds that, after using all his own money, he own, must that, after using all his own money, he still requires say Rs. 25,000 to stock his shop suitably. He thereupon approaches the shroff, and the latter after very careful inquiries as the shopkeeper's position grants the accommodation, if he is satisfied that the business is after the business are and the state of the business are and the state of the business are and the state of the business are and the state of the business are and the state of the business are and the state of the business are and the state of the business are and the state of the business are and the state of the business are and the state of the business are and the state of the business are and the state of the state safe. The business, as a rule, is arranged through a hoondee broker, and in the case referred to the latter may probably approach about ten shroffs and secure accommodation from them to the extent of Rs. 2,500 each. A hoondec usually drawn at a currency of about 2 months is almost invariably taken by the shroffs in respect of such advances.

A stage is reached however when the demands on the shroffs are greater than they are able to no dout meet out of their own money, and it is at this extent.

Native private Bankers and Shroffs flourished | point that the assistance of the Banks is called and the Banks accept such bills freely to an extent determined in each case by the standing of the shroff and the strength of the drawers. The extent to which any one shroff may grant accommodation in the bazaar is therefore dependent on two factors, viz., (1) the limit which he himself may think it advisable to place on his transactions and (2) the extent to which the Banks are prepared to discount bills bearing his endorsement. The shroffs keep in very close touch with all the traders to whom they grant accommodation, and past experience has shewn that the class of business above referred to is one of the safest the Banks can engage in.

> The rates charged by the shroffs are usually based on the rates at which they in turn can discount the bills with the Banks and necessarily vary according to the standing of the borrower and with the season of the year. Generally speaking, however, a charge of two annas per cent. per mensem above the Bank's rate of discount, or 1½ % is a fair average rate charged in Bombay to a first class borrower. Rates in Calcutta and Madras are on a slightly higher scale due in a great measure to the fact that the competition among the shroffs for business is not so keen in these places as it is in Bombay.

The shroffs who engage in the class of business above described are principally Marwaries and Multanis having their head Offices for the most part in Bikanir and Shikarpur, respectively, the business elsewhere than at the Head Offices being carried on by "Moonims" who have very wide powers.

It is not known to what extent native bankers and shroffs receive deposits and engage in exchange business throughout India, but there no doubt that this is done to a very considerable

THE BANK RATE.

Each Presidency Bank fixes its own Bank rate, and the current rate of each Bank determines to a great extent the rates for all important classes of business within the Bank's sphere of influence. The rates in the three Presidencies are not always uniform, but it

seldom happens that a difference of more than 1% exists, more particularly as regards Bombay and Bengal, which seem to be in closer touch with each other than appears to be the case with Madras. The rate fixed represents the rate charged by the Banks on demand loans against Government securities only and advances on other when the Bank rate is sometimes nominal, securities or discounts are granted as a rule at a slightly higher rate. Ordinarily such advances or discounts are granted at from one-half to

The following statement shews the average Bank rate of each Bank since 1880:--

		Bar	k of Bon	nbay.	Ваг	ak of Ben	gal.	Ba	nk of Ma	dras.
Year	r.	1st Half- year.	2nd Half- year.	Yearly average.	1st Half- year.	2nd Half- year.	Yearly average.	1st Half- year.	2nd Haif- year.	Yearly average.
1880 1881	::	5.72 5.40	4.3 5.98	5.01 5.69	5.385 4.862	3.913 5.717	4.649 5.289			
1882 1883		8.08 7.00	4.13 6. 2	6.10 6.6	8.177 6.994	5.022 6.560	6.599 6.777	•		
188 4 1885		9.03 5.90	4.17 4.00	6.60 4.95	8.813 6.757	3.946 4.005	6.379 5.381			
1886 1887	::	6.35 7.78	6.50 3.73	6.42 5.75	5.923 7.475	6.152 3.804	6.037 5.639			İ
1888 1889	::	5.90 9.46	5.51 4.00	5.70 6.73	5.736 9.309	5.185 4.674	5.460 6.991			5.60 6.86
1890 1891	· ::	9.21 3.88	3.28 2.23	6.24 3.05	8.265 3.502	3.315 2.622	5.790 3.062			5.74 2.92
1892 1893	::	3.97 5.97	3.04 3.84	3.50 4.90	3.884 5.685	3.114 4.076	3.499 4.880	·		3.54 5.27
1894 1895		7.55 4.30	3.46 3.60	5.50 3.95	7.425 5.066	3.364 3.592	5.394 4.329			5.00 4.25
1896 1897	::	5.85 10.11	5.10 5.64	5.47 7.87	5.774 9.884	5.608 5.967	5.691 7.925			5.62 7.97
1898 1899	::	12.03 6.34	4.55 5.42	8.29 5.88	11.016 6.337	5.114 5.494	8.065 5.915			7.78 6.05
1900 1901	::	6. 9 7.07	3.79 3.83	5.34 5.45	6.414 6.895	4.272 4.070	5.343 5.482	7.57	4.09	5.87 5.83
1902 1903	::	6.25 6. 7	3.43 3.48	4.84 5.09	6.176 6.265	3.549 3.494	4.862 4.879	7. 7.13	$\frac{4.02}{4.27}$	5.51 5.70
1904 1905	::	5.15 5.77	3.82 4.42	4.48 5.09	5.560 5.558	4.190 4.630	4.875 5.094	6.42 6.04	4.07 4.19	5.24 5.11
1906 1907	::	7.24 7.81	5.28 4.11	6.26 5.96	6.950 7.635	5.885 4.576	6.417 6.105	7.15 8.24	5.04 4.54	6.09 6.39
1908 1909	::	7.84 6.47	4.02 3.82	5.93 5.14	7.417 6.580	4.244 3.907	5.830 5.243	8.38 7.55	4.38 4.41	6.38 5.98
1910 1911	::	6.19 6.55	4.14 3.52	5.16 5.03	6.143 6.657	4.510 4.358	5.326 5.507	7.17 7.59	4.65 4.35	5.91 5.97
1912 1913	::	6.01 7.23	4.10 4.62	5.05 5.92	6.242 6.569	4.592 5.331	5.417 5.950	7.51 7.76	4.59 5.54	6.05 6.65
1914	••	5.52			5,939			6.63	1	

Bank	of Bo	mba	у.	Bank	of B	engal	١.	Bank o	f Mad	lras.
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February		11	7	February		23	7	January	14	6
		25	6	March		9	8	February	20	7 8 7 6
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May		19	4	Whin	• •		۰		29	6
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		20	5	July		20	3	1903]	}
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		30	7	December	::	14	7	July	2	l 6
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April	• • •	-6	6	January		4	8	, ,		
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•		27	3		::	22	7	1904	21	9
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37		23		_			_		21	7
November	• • •	30	5	May	• • •	12 3	5 6	May	16	6.
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1906				"			-	July	5	. 4
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		ĺ	1 .	1907	•••		i	July	10	*
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March		7	8	July		4	4	May June	28 21	6 5
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Bank	of B	omb	ay.	Bank	of B	engal	•	Bank o	of Mad	ras.
Date).		Rate.	Date	Date. Rate. Date. Rat			Rate.		
			Per cent.			1	Per cent.		T	Per cent
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A pril	•	16	<u> </u>		::	26	8	December	5	6
-			l _ i	_ 1909		١	_	"1908 · ·	23	7
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May	- • •	13	6	December	••	9	6	1909	12	7
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	::	24	4	March		3	7	June	1	7
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арги Мау	::	29	6	Jûne		5	5	"1913 ···	4	. 7
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Bank	of B	ombay	<i>.</i>	Ban	Bank of Bengal.				Bank of Madras.				
Dat	e.		Rate.	Da	te.		Rate.	Date.		Rate.			
August September October "1914 January May June August	::	7 10 10 31 15 21 4 25 6 13 20	4 5 6 5 6 5 4 3 4 5 6	August September November 1914 March May June July August	::	7 28 18 13 19 1 4 9	4 5 6 7 6 5 4 3 5	October 1914 January May June August October		2 25 8 23 21 12	6 7 8 5 4 5 6		

BANKERS' CLEARING HOUSES.

The principal Clearing Houses in India are during the course of the day and the latter in those of Calcutta, Bombay, Madras, and Katturn arranges to pay on receipt of those amount rachi, and of these the first two are by far the most important. The members at these places consist of the Presidency Banks, most of the Exchange Banks and English Banking Agency firms, and a few of the better known of the local Joint Stock Banks. No Bank is entitled to claim to be a member as of right and any application for admission to a Clearing must be proposed and seconded by two members and be subject thereafter to ballot by the existing members.

The duties of settling Bank are undertaken by the Presidency Bank at each of the places mentioned and a representative of each member attends at the office of that Bank on each business day at the time fixed to deliver all cheques he may have negotiated on other members and to receive in exchange all cheques drawn on him negotiated by the latter. After all the cheques have been received and delivered the representative of each Bank advises the settling Bank of the difference between his total receipts and deliveries and the settling Bank thereafter strikes a final balance to satisfy drawn on or negotiated by Banks in the lotals of the debtor balances, agrees with the total of the creditor balances. The debtor Banks thereafter arrange to pay the amounts due by them to the settling Bank above referred to are given below:—

practice however all the members keep Bank accounts with the settling Bank so that the final balances are settled by cheques and book entries thus doing away with the necessity for cash in any form,

The Clearing House figures can usually be taken as giving some indication as to the condition of trade and to some extent also as to how far the banking facilities available are being taken advantage of but in the latter respect at all events the statistics for India do not form as useful a guide as those in most other countries. This is due to the fact that hardly any of the numerous Joint Stock Banks which have been formed within recent years have so far been admitted as members of the various Clearing Houses and as few if any of these Banks have obtained the assistance of the Clearing House returns merely represent the transactions of the members and do not include in any way the totals of the cheques drawn on or negotiated by Banks not repre-

The figures for the Clearing Houses in India

Total amount of Cheques Cleared Annually. In lakhs of Rupees.

	_	Calcutta.	Bombay.	Madras.	Karachi.	Total.
1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1911 1912	N	22,444 21,281 19,776 22,238 25,763 28,831 33,133	6,511 7,013 8,702 9,492 10,912 12,645 12,585 14,375 16,652 17,605 20,831	1,838 1,295 1,464 1,536 1,560 1,583 1,548 1,754 1,948 2,117 2,083 1,152	178 268 340 365 324 400 580 643 702 755 762 1,159	8,027 8,576 10,566 11,393 12,811 12,895 37,167 36,263 36,801 41,762 46,213 52,835

Government of India Rupee Loans.

The following are the Loans in the hands of the public still extant, all the others having been extinguished either by conversion or by discharge :-

(1) Thre	e & a half per cent. loan o	of 1842-43
(2	Ditto	1854-55
(3)	Ditto	1865
(4)	Ditto	1879
(5) Thre	e per cent. loan of	1896-97

(6) Three & a half per cent. loan of 1900-01

The first four of these loans were made repayable at the option of Government on or after 31st July 1904 on three months' notice being given so that the position now as regards these loans is that Government are at liberty to discharge them at any time on giving three months' notice. In view however of the necessity of fresh borrowings by Government this power is not likely to be exercised for some considerable time to come.

The 3½ per cent. Loan of 1900-01 is repayable, also at the option of Government, on or after 31st December 1920 on three months' notice being given and all loans issúed since the year 1900 have been included in and form part of the 1900–01 loan.

In 1896 Government resolved in view of the easy condition of the money market to try the experiment of borrowing at 3 per cent. and the loan of Rs. 4 crores raised in that year was accordingly issued bearing that rate of interest. The opportunity was also taken to advertise for discharge the two 3½ per cent.loans of 1853-54 and 1893-94 but proprietors of these loans were given the option of transferring their holdings to the new 3 per cent. loan. The Rs. 4 crores loan was successfully floated and appeared to be a great success but it was soon seen that the public had no use for a 3 per cent. security and Government have never repeated the attempt to borrow at 3 per cent. The successful tenderers for the loan of 1896-97 experienced great difficulty in disposing of any part of their holdings and as through course part of their holdings and as through course of time the notes became practically unmarketable it was generally felt that Government must do something to improve the market for the notes. Various proposals were submitted to Government with this end in view but the latter delayed taking any action in the matter until the year 1908. Such action took the form of giving holders the option of converting their 3 per cent notes into 31 per cent water. ing their 3 per cent. notes into 31 per cent. notes of the 1900-01 loan on the following terms :-

- (1) If the face value of the 3 per cent. notes tendered for conversion is an exact multiple of Rs. 700 the tenderer will receive in exchange 31 per cent. notes for 6-7ths of such face value.
- (2) If the face value of the 3 per cent. notes tendered for conversion does not form an exact multiple of Rs. 700 the tenderer
 - the difference in 3 per cent. notes, or interest charges are expended.

(b) 31 per cent, notes of the nearest higher equivalent face value in hundreds calculated as in Clause 1 on payment in cash of the difference between (i) 6-7ths of the face value of the 3 per cent. notes tendered and (ii) the face value of the 31 per cent. notes received in exchange.

The above offer is still in force but Government have reserved the right to withdraw it at any time on giving 6 months notice. The balance of the 8 per cent. loan stood at per cent. loan stood at Rs. 10,95 lacs on 31st March 1897, at Rs. 11,07 lacs on 30th September 1908 and at Rs. 8,42 lacs on 31st March 1913. The work connected with the payment of interest, &c., on Government loans is entrusted to the Presidency Banks in the 3 Presidency towns, to the District Treasuries elsewhere in India, and to the Bank of England in London.

Government debt may be held in the form of promissory notes or Stock Certificates but Notes or Certificates can only be issued in even hundreds of rupees. Promissory notes are transferable by endorsement and as such transfers do not require to be registered it follows that Government do not keep any record of the holders of such notes from time to time. A holder of a Stock Certificate is a registered holder however and transfers can only be made by transfer deed which must be submitted to and approved of by the authorities conducting the loan business on behalf of Government.

Interest is payable half-yearly on each loan on the dates noted below.

Loan of 1842-43 1st Febry. & 1st August. Loan of 1854-55 30th June & 31st Decr. Loan of 1865 1st May & 1st Novr. Loan of 1879 16th Jany. & 16th July. Loan of 1896-97 30th June & 31st Decr. Loan of 1900-01 30th June & 31st Decr.

Interest may be made payable at the option of the holder at the Public Debt Office Banks of Lengal, Bombay or Madras, at any Government Treasury, or at the Bank of England, London. In the case of Promissory Notes, presentation of the notes at the office where interest is payable is necessary before interest can be drawn but this does not apply as regards Stock Certificates and interest warrants in respect of these are sent out to the registered holder as soon as interest falls due. The interest on notes enfaced to London is paid by rupce drafts on India.

Renewal, Conversion, Consolidation and Sub-Division of Promissory Notes.

When all the spaces reserved for endorse ments on the reverse of a note have been filled up or when the spaces utilised for recording payments of interest have been exhausted the note requires to be renewed before any further transfers can be allowed or interest drawn. The fee for such renewal is at the rate has the option of receiving—

(a) 3\(\frac{1}{2}\) per cent, notes equivalent to the lect to a maximum of Re. 1 for each note but nearest lower multiple of Rs. 700 calloner and the case of a note of the notes of a note of the notes of a note. culated as in Clause 1 together with on which no endorsements appear when the

CONVERSION.

Promissory Notes of the 31 per cent. loans of 1842-43, 1854-55, 1865, 1879 and 1900-01 may be transferred to any other of those loans except that no transfer to the loan of 1900-01 from any of the other loans is admissible.

It is made a condition however before any such transfer is permitted that a full half-year's interest is due on the Promissory Note at the time it is presented for transfer.

The fees charged are the same as those applicable to renewals.

CONSOLIDATION AND SUB-DIVISION.

Notes of the same loan, on which interest has been paid up to the same date, may be consolidated or notes may be sub-divided into others of smaller denominations, but of the same loan, at the option of the proprietors, notes only being issued for Rs. 100 or multiples of Rs. 100.

The fee charged is at the rate of 1 per cent. on the face value of the new notes received, subject to a maximum of Re. 1 for each note.

The management of the debt in England is entrusted to the Bank of England who are paid commission at the rate of £300 per million pounds in respect of the sterling debt and £400 per crore of rupees in respect of the rupee debt. The charge for the latter is however subject to a minimum of £8,000.

Quotations for 3½ per cent. Government of India Loans.

		OI IMUIA			
		Rupee Lo	an.	Sterlin	ıg Loan.
Jany.		Rs.			£
1895	٠.	103.6 pe	r cent.	$112\frac{9}{4}$	per cent.
1896		105.7	,,	117	;;
1897		98	,,	1181	;;
1898		95.13		117	99
1899		94	,,	$116\frac{1}{2}$;;
1900		95.10	,,	110	;;
1901		96	,,	108	;;
1902	٠.	95.14	ı;	108	,;
1903		97.9	,,	107	;
1904		95.2	,,	103	99
1905		98.1	,,	106l	**
1906		97.14	,,	1051	;;
1907		95.7	79	104	;;
1908		96.3	;;	1021	ii
1909		94.11	;,	99	,,
1910		93.7	;;	981	,;
1911		95.1	12	95 <u>‡</u>	;;
1912		96.2	,,	94	19
1918		94.9	;;	91.7	716 ,,
1914		95.10	**	85 1	"

Failures of Indian Banks.

of a large number of Indian Banks conducted by Indian management. The affairs of these institutions have still to be wound up so that it is not yet possible to estimate the full extent of the losses incurred, nor is it possible yet accurately to determine in each case what was the cause of failure. The first of the series of failures occurred in September, in the Punjab, which had been in recent years a peculiarly fertile field for the promoters of Swadeshi Banks, and the crisis rapidly spread to Bombay where also a large number of banks has been started since 1907.

The Peoples' Bank of India.—On September 20, the Peoples' Bank of India, which had its headquarters in Lahore and 72 branches in various parts of India, suspended payment.

The Bank had a paid-up capital of Rs. 12,46,375 and had a reserve or other funds of Rs. 3,00,000. The full value of the share was Rs. 50 each; out of which only Rs. 80 per share had been called. It has paid dividends at the rate of 9 per cent. during the last three years.

Mr. Harkishen Lal had been Managing Director of the Bank since its beginning until he retired in August 1913, owing to severe criticisms of his various financial and industrial concerns in the press. He subsequently pre-sented a scheme for the reconstruction of the Bank, but a provisional order for liquidation was given, the final order being postponed until January 1914.

The latter part of 1913 witnessed the failure lished in Bombay in 1909. The authorised a large number of Indian Banks conducted y Indian management. The affairs of these capital was Rs. 1,00,00,000 while the subscribed stitutions have still to be wound up so that up was Rs. 1,00,000 and reserve fund Rs. is not yet possible to estimate the full extent 32,000. The petition for its liquidation was heard on November 1, when the report on the affairs of the Bank, by Messrs. Ferguson and Co., to the Provisional Official Liquidator was presented. The Advocate-General, who appeared for the petitioner, said that the liabi-lities of the Bank were 41 lakhs or thereabouts and the anticipated assets were certainly not more than nice lakhs. Sir Dinsha Davar said in reference to the report that if half the allegations made in it were correct the Company was from its inception an organised attempt

was arrested on December 18, on a charge of criminal breach of trust in respect of sums aggregating nearly Rs. 1 lakh.

The Lahore Bank, Ltd.—This Bank suspended payment on November 18. It was the third of the Indigenous Banks in point of age, having been started in 1906 by Haridas Kapur, formerly an employee of a local European Bank who loined Harkishen Lai in starting the Peoples' Bank and was its first manager. Subsequently he started his own bank and became its managing director. The authorised capital of the Bank was five lakhs and the subscribed capital four lakhs ninety thousand. It had fifteen branches in the Punjab and one at Karachi.

January 1914.

The Indian Specie Bank, Ltd.—On NovThe Credit Bank of India.—On Oct. 3, ember 21, a petition was presented for winding
this bank suspended paym & t. It was estab- up this Bank, but was withdrawn. Sir Dinsha

Dayar, the Judge who heard the petition, said:—"I should like to say that it struck me as a most remarkable circumstance that shareholders representing a capital of three quarters of a crore of rupees and creditors to the extent of a crore of rupees should come forward together to support the directors and the managing director in the manful fight they have made for the existence of the Bank. In spite of allegations of very hazardous trading not one single shareholder or contributory or creditor has come forward to support the petition. That seems to me to be a very remarkable circumstance in the history of the Bombay banking and trade. The petition will stand dismissed."

The Manager of the Bank, Mr. Chunilal Saraiya, died suddenly on November 29 and a petition was immediately made by four of the directors for the winding-up of the Bank on the ground that the Bank had not sufficient cash to pay the liabilities due on that day. The cash in hand was Rs. 60,000 and the liabilities to be met that day amounted to Re. 1,50,000. The report of the provisional liquidators, published December 19, showed that the bullion account was debited with Rs. 23.7 lakhs, against which there were about 4,550 oz. of Silver; that the firm of M. Nanabhai & Co. was debited with Rs. 84 lakhs; that there was a loss of Rs. 30 lakhs on open silver contracts; that Rs. 64.7 lakhs had been advanced on pearls; and that Rs. 27.2 lakhs had been ad-vanced on share badia business, the market value of those securities being, when the report was published, under Rs. 12 lakhs. The story unfolded in this report was according to the Liquidators, "a miserable tale of the lowest form of fraud the creation of fictitious debtors, and the preparation of Demand Promissory Notes in support of these." They also stated that "the accounts submitted each half-year were rendered falsely to the shareholders and the means of manipulation were usually applied through M. Nanabhoy's account. False entries were carried through the Books to and set out in the following tables.

from the account of this dummy silver king, by which silver operations were disguised as debtors for loans in whose hands were placed bogus Demand Promissory Notes for presenta-tion to the Auditors. When the Audit was safely over the disguised figures disappear and the mysterious Mr. Nanabhoy resumed his manipulations of the Silver Market."

After the presentation of this report, Sir Dinsha Davar, in spite of a request that the shareholders and others might be given time more fully to consider the situation, passed an order for winding up the Bank.

The Pioneer Bank .- On November 29, petition was presented in the Bombay High Court for the winding up of this Bank. grounds of the petition, which was accepted, were that the company was a bogus one and that the substratum had already been lost through doubtful transactions. The petitioner expressed the belief that hardly a lakh of the capital of the Bank had been subscribed by bona fide shareholders, and that against this more than two lakhs had been advanced as loans on the shares of the company. The Bank was registered with Rs. 50 lakhs capital, divided into shares of Rs. 25.

Criminal Proceedings.—In the case of the Credit Bank, Jaffer Joosab, the Manager, was sentenced for criminal breach of trust to seven years' rigorous imprisonment. In the same sessions he was jointly tried with N. R. Mistri, auditor of the Bank, on another charge of breach of trust and for falsification of accounts. On this charge he was sentenced to a further term of three years. Mistri was adjudged "not guilty" by the jury and was discharged.

In the Specie Bank case the liquidator has filed claims for several lakhs of rupees against the directors and auditors, but no criminal prosecution has been instituted. Prosecutions are pending in sessions in the Bombay Bank-

ing Co. Case.
The results of the failures are statistically

1	Date of		İ	CAPITAL.				
Š	Regis- tration.	Name of Company.	Nominal.	Issu	ied.	Amount of Deposits.	Date of going in- to liqui-	Remarks,
ļ				Nominal.	Paid-up.		dation.	
		Bombay.	Rs.	∖ Rs.	Rs.	Rs.	<u>`</u>	
2 2 3 1		Gujerat Bank Indian Specie Bank	5,00,000	2,11,800 1,75,100 1,50,00,000	1,25,229 84,025 74,88,850] [11-11-1913 24-3-1914 4-3-1914	
	16–10–1909 15–12–1909 10–6–1910	Credit Bank of India Kathiawar and Ahmedabad Banking Corporation		1,38,000 50,00,000 75,72,700	39,110 10,00,000 7,44, 567		12-10-1914 1-11-1913 23-12-1913	
2	28 - 11-1910	* Sind Bank	25,00,000	3,26,700	82,295			* Passed resolution for wind
1	6–8–1911 6–1–1912 8–5–1913 8–10–1913	Indian Finance Corporation Crown Bank of India All India Commerce Bank Union Bank of Commerce	5,00,000 5,00,000 10,00,000 50,00,000	18,410	18,410 	inform- ation.	8-5-1914 7-11-1913 7-10-1914 3-6-1914	ing up.
		Madras.				1	0 0 1017	
14	4-8-1869	Madras Deposit and Benefit	50,000	50,000	50,000		16-3-1914	,
28	8-5-1909	Society. Sri Krishna Bank	5,00,000	5,00,000	2,125	1 1	31-3-1914	
		United Provinces.				,		
8	9-11-1909	United Provinces Co-operative Bank, Allahabad.	10,00,000	45,740	27,105	1,62,930	17-6-1914	Voluntary liquidation.
17	7-1-1918	Commercial Bank of India, Ghazipur.	10,00,000	5,775	4,250		2-7-1914	Do.
	i–1–1911	Shri Kashi Vishwanath Bank, Benares.	1,00,000	3,892	3,782		3-8-1914	Do.
18	-4-1911	British India Bank, Allahabad	2,50,000	6,238	6,238	••••		Has become defunct for over two years and action is being taken to strike it o

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_		Statement showing	he names o	f Banks faile	d or liquida	ted since Se	ptember	1913.
				CAPITAL.				
Š.	Date of Regis- tration.	Name of Company.	Nominal.	Is	sued.	Amount of Deposits.	Date of going in- to liqui- dation.	Remarks.
		,		Nominal.	Paid-up.		dauton.	
8	3-5-1911	United India Bank, Allahabad	5,00,000	39,104	26,733	····		Has stopped operations for about a year without being formally wound up. its affairs are being investi-
6	13-4-1908	People's Industrial Bank, Allaha- bad.	5,00,000	68,570	35,015			gated. Resolution for winding up passed at the beginning of the year after which it
7	7-0-1912	Asiatic Engineering and Banking Corporation.	20,000	1,410	1,410	217		ceased working. Resolution for winding up passed on 20th May 1914 but the proceedings have not
8	26-5-1913	Central Reciprocal Bank, Allaha- bad.	2,00,000	••;••		••••		yet been investigated. Resolution for winding up pass- ed on 31st July 1914 which
8	27-1-1863	Bank of Upper India, Meerut	10,00,000	10,00,000	10,00,000	1,83,53,245	•• ••	is being registered. Has just suspended payment.
		Punjab.						
4	6-2-1901 8-2-1904 31-5-1906 21-7-1906 10-10-1906	Amritsar Bank, Lahore Lahore Bank, Lahore	35,00,000 5,00,000 5,00,000 10,00,000 6,00,000	5,00,000 4,81,300 2,43,975	1,61,313 1,04,935 1,20,814	28,21,930 28,50,282 10,53,999	17-11-1913 5-12-1918 30-11-1918 19-1-1914 7-2-1914	
7	11-4-1908 20-9-1909	Doaba Bank, Amritsar Public Banking and Assurance Co., Multan,	5,00,000 10,00, 000		65,845 1,964		22-11-1913 2-3-1914	
8	5-8-1911 29-8-1911	Bank of Peshawar, Multan Coronation Banking and Assurance Co., Lahore.	5,00,000 1,00,000		1,04,271 · · · ·	2,22,864	14-2-1914 3-2-1914	
10	15-9-1911	Indian Exchange Bank, Amritsar	5,00,000	17,310	13,410	2,06,161	22-12-1919	

		Statement showing	the names	of Banks fai	led or liquid	ated since S	eptember	1913.
				CAPITAL.			Date of	
N	Date of Regis: tration.	Name of Company.	Nominal.	Issu	ed.	Amount of Deposits.	going in- to liqui- dation.	Remarks.
_			2,0.22	Nominal.	Paid-up.			
]				
12	31-7-1906 14-4-1910 11-8-1911	Popular Bank Rawainindi	10,00,000 50,00,000 5,00,000	4,94,100 20,00,000 2,45,475	1,51,891 3,24,596 70,501	18,62,641	14-6-1914 28-7-1914 3-3-1914	
14 15	9-2-1912 20-9-1912	Bank of Empire, Lahore	5,00,000 5,00,000	1,15,425 84,300	23,875 11,110		6-7-1914 22-4-1914	
16 17		Golden Bank of India, Amritsar . Solar Bank, Lahore	5,00,000 1,00,00,000	16,775 1,55,000	8,042 8,500	••••	21-4-1914 29-3-1914	
18 19 20	18-5-1907	Indian States Bank, Amritsar Orient Bank of India, Lahore Punjab Co-operative Bank, Amritsar.	10,00,000 25,00,000 25,00,000	26,000 10,00,000 10,00,000	2,835 71,354 8,18,519		27-3-1914 4-9-1914 Spt. 1914	Suspended business in Sep- tember, 1914, but no resolu- tion regarding winding up has yet been filed.
	23-4-1912 31-10-1912	Capital Bank of India, Lahore George Bank, Lahore Commercial and Zamindari Bank, Multan.	10,00,000 2,50,000 2,50,000	50,065 1,30,700 31,950	5,950 48,365 2, 000	1,04,316	28-9-1914 19-6-1914 21-7-1914	Applied for liquidation. Do.
24	••••	Durbar Bank, Lahore	2,00,000	••••		••••	14-12-1913	Business stopped, but regular liquidation has not commenced.
25 26	5-i-i909	East India Banking Co.; Jagraon. Punjab Mercantile Bank, Lahore.	25,00,000 5,00,000	66,400	7,030	10,040	1-1-1914 1-9-1913	Do, Do.
		N. W. F. Province.				•		
2	8-10-1912 0-8-1912	The Bank of Hazara, Abbottabad. The Punjab Trader's Bank, Peshawar.	2,00,000 2,50,000	16,000 1,84,200	3,175 51,962	10,297	26-12-1913 5-4-1914	Voluntary liquidation. Do.
	į	1					ł	

Agriculture.

food and moisture in the soil so the character of the agriculture of a country depends largely on its soil and climate. It is true that geographical situation, the character of the people and other considerations have their influence which is not inconsiderable, but the limitations imposed by the nature of the soil and above all by the climate tend to the production of a certain class of agriculture under a certain given set of conditions.

★ The climate of India, while varying to some extent in degree, in most respects is remarkably similar in character throughout the country. The main factors in common are the monsoon, the dry winter and early summer months, and the intense heat from March till October. These have the effect of dividing the year into two agricultural seasons, the Kharif or Monsoon and the Rabi or Winter Season each bearing its own distinctive crops. From early June till October abundant rains fall over the greater part of the continent while the winter months are generally dry atthough North-Wes-tern India benefits from showers in December and January. The distribution of the rainfall throughout the year, which is of considerable importance to agriculture, is none too favour-able, but is not quite so bad as is often represent-ed. The rainfall is greatest at what would otherwise be the hottest time of the year viz., mid-summer and when it is most needed. It should be remembered that in a hot country intermittent showers are practically valueless as evaporation is very rapid. The distribution of rainfall such as is common in England, for example, would be of little use to Indian

Soil .- For the purpose of soil classification, Soil.—For the purpose of soil classification, India may be conveniently divided into two main areas in (1) The Indo-Gangetic plains, (2) Central and Southern India. The physical features of these two divisions are essentially different. The Indo-Gangetic plains (including the Puniab, Sind, the United Provinces, Bengal, Bihar and Assam) form large level stretches of alluvium of great depth. The top soil stretches of alluvium of great depth. The top solver part being a light loam, porous in texture, from sand to clay, the greater part being a light loam, porous in texture, easily worked, and naturally fertile. The great depth of the alluvium tends to keep down the soil temperature. Central and Southorn India on the other hand, consists of hills and valleys. The higher uplands are too hot and too near the rock to be suitable for agriculture which is mainly practised in the valleys where the soil is deeper and cooler and moisture more plentiful. The main difference between the soils of the two tracts is in texture and while the greater part of the land in Northern India is porous and easily cultivated, and moist near to the surface, large stretches in Southern and Central India consist of an intractable soil called the Deccan trap, sticky in the rains, hard and crumbly in the dry weather and holding its moisture at lower levels.

Agricultural Capital and Equipment.-India is a country of small holdings and the vast majority of the people cultivate patches varying in size from one to eight acres. Large

As crops depend on the existence of plant confined to European planters. Farming is od and moisture in the soil so the character carried on with a minimum of capital, there the agriculture of a country depends largely being practically no outlay on fencing, buildings, or implements. The accumulation of capital is prohibited by the occurrence of famine and the high rate of interest, and extravagance of expenditure in marriage celebrations. The organization of co-operative credit which has been taken in hand by Government and which has already proved successful in many provinces will undoubtedly lead to an increase in Agricultural capital.

Equipment.—For power the ryat depends chiefly on cattle which, as a rule, are light and active but possess little hauling power. The necessary tilth for crops is brought about by frequency of ploughings, the result being that the soil is seldom tilled as it should be. This is not due in any way to want of knowledge on the part of the people but through want of pro-per equipment. The Indian Agriculturist, as a rule, possesses an intimate knowledge of the essentials of his own business, and fails through lack of ways and means.

Implements are made of wood although ploughs are usually tipped with iron points and there is a great similarity in their shape and general design. The levelling beam is used throughout the greater part of the country in preference to the harrow and roller; and throughout Northern India the plough and the levelling beam are the only implements possessed by the ordinary cultivator.

In the heavier soils of the Deccan trap a cultivating implement consisting of a single blade, resembling in shape a Dutch hoe, is much used. Seed drills and drill hoes are in use in parts of Bombay and Madras but throughout the greater part of the country the seed is either broad-casted or ploughed in. Hand implements consist of various sizes of hoes, the best known of which are kodal or spade with a blade set at an angle towards the labourer who does not use his feet in digging, and the khurpi or small hand hoe. of harvesting machinery there is none, grain is separated either by treading out with oxen or beating out by hand, and winnowing by the agency of the wind.

Cultivation.-Cultivation at its best is distinctly good but in the greater part of the country it has plenty of room for improvement. As in any other country success in agriculture varies greatly with the character of the people, depending largely as it does on thrift and industry. In most places considering the large population cultivation is none too good. Agriculture suffers through lack of organizaagriculture surors through lace of organization and equipment. Owing to the necessity of protection against thieves, in most parts the people live in villages, many of them at considerable distances from their land. Again, holdings, small though they are, have been sub-divided without any regard for convenience. Preparatory tillage generally consists of re-peated ploughings, followed as seed time approaches by harrowings with the leveling beam. The Rabi crops generally receive a more thorough cultivation than the Kharif, a finer seed bed being necessary owing to the holdings are practically unknown, and are mainly dryness of the growing season. Manure is

generally applied to Kharif crops. Seeding is thus does not exist. This is partially if not either done broadcast or by drilling behind a wooden plough or drill. Thinning and spacing is not nearly so well done as it might be, and intercultivation is generally too superficial. Harvesting is done by sickle where the crops of animals has to be used for burning. The are cut whole, and there is little waste involved. On the whole the methods of the ryats if carried out thoroughly would be quite satisfactory, but it is doubtful if this could be done with the number of cattle at his disposal.

Irrigation is necessary over the greater part of the country owing to insufficient rainfall and the vagaries of the monsoon. Canal rigation has been greatly extended over the Punjab, Sind, United Provinces and Madras through Government canals which, in addition to securing the crops over existing cultivated land have converted large desert tracts into fertile areas. The Punjab and parts of the Unit-ed Provinces are naturally well suited to canal irrigation owing to the frequency of their rivers. The water is generally taken off at a point a little distance from where the rivers leave the hills and is conducted to the arid plains below. The main canal splits up into diverging branches, which again subdivide up into distributaries from which the village channels distributants not which the village channels receive their supplies. Water rates are levied on the matured areas of crops, Government thus bearing a part of the loss in case of failure. Much of the land is supplied by what is termed flow irrigation, i.e., the land is directly com-manded by the canal water, but a great deal has to be lifted from one to three feet the canal running in such cases below the level of the land. Rates for lift irrigation are, of course. lower than those for flow.

Irrigation canals are generally classed into (1) perennial and (2) inundation canals. Perennial canals, which give supplies in all seasons niai canais, which give supplies in an seasons generally have their headworks near the hills, thus commanding a great range of country. Farther from the hills, owing to the very gradual slope of the land and the lowness of the rivers in the cold weather, perennial irrigation is difficult and inundation canals are resorted to. These canals only give irrigation when the rivers are high. As a rule, in Northern India they begin to flow when the rivers rise owing to the melting of the snow on the hills in May and dry up in September.

Irrigation from Wells - About one-quarter of the total irrigation of the country quarter of the total ringsacon of the country is got from lifting water from wells ranging in depth from a few feet to over fifty feet. Their numbers have greatly increased in recent years largely through Government advances for their construction. The recurring cost of this form of irrigation has, however, greatly increased owing to the high price of draught cattie and the increasing cost of their maintenance.

Tank irrigation is common in Central and Southern India. Large quantities of rain water are stored in lakes (or tanks) and distributed during the drier seasons of the year. The system of distribution is the same as that by canal.

same purpose and the net return of organic matter to the soil is thus insignificant. In some parts cakes of oil seed are used as manures for valuable crops like tea and sugarcane but in the greater of the country the only manure applied is the balance of farm yard manure available after fuel supplies have been satisfied. Farm yard manure is particularly effective and its value is thoroughly appreciated but the people have much to learn in the way of storage of bulky manures and the conservation of urine.

Rice.-A reference to the crop statistics shows that rice is the most extensively grown crop in India, although it preponderates in the wetter parts of the country, viz., in Bengal, Bihar and Burma and Madras. The crop requires for its proper maturing a moist climate with well assured rainfall. The cultivated with well assured rainfall. The cultavated varieties are numerous, differing greatly in quality and in suitability for various conditions of soil and climate, and the people possess an intimate acquaintance with those grown in their own localities. The better qualities are sown in seed beds and transplanted in the proposer. Producted vice is grown generally sown in seed beds and transplanted in our monsoon. Broadcasted rice is grown generally in lowlying areas and is sown before the monsoon as it must make a good start before the floods arrive. Deep water rices grow quickly and to a great height and are generally able to keep pace with the rise in water level.

For transplanted rice the soil is generally prepared after the arrival of the monsoon and

prepared after the arrival of the monsoon and is worked in a puddle before the seedlings are transplanted. The land is laid out into small transplanted. The land is laid out into small areas with raised partitions to regulate the distribution of the water supply. The seedlings are planted in small bunches containing from 4 to 6 plants each and are simply dibbled into the mud at distances of 6 to 12 inches apart. Where available, irrigation water is given at frequent intervals and the fields is given at frequent intervals and the fields are kept more or less under water until the crop begins to show signs of ripening.

Wheat.-Wheat is grown widely throughout Northern India as a winter crop, the United Provinces and the Punjab supplying about two-thirds of the total area, and probably three quarters of the total outturn in India three quarters of the total outturn in lines. The majority of the varieties grown belong to the Species Triticium Vulgare. Indian wheats are generally white, red and amber coloured and are mostly classed as soft from a commercial point of view. The grains are generally plump and well filled but the samples are spoiled through mixtures of which would be a various qualities. Today plump and well filled but the samples are spouse through mixtures of various qualities. Indian wheat is generally adulterated to some extent with barley and largely with dirt from the threshing floor and although there is a good demand in England and the Continent for the surplus produce with some community of the continent for the surplus produce with some community. surplus produce, prices compare unfavourably with those obtained for Canadian and Austra-Manures.—Feeding of animals for slaughter being practically unknown in India, the affect a summer fallow and, except in irrigated amount of farm yard manure generally tracts, depends largely on the conservation of available in other countries from this source

Further details are given in the subsequent table; but the latest figures available are for 1911-12.

The following table shows the area under the principal crops, in British India, and their territorial distribution, for 1912-13. The cropped area is always greater than the area of cultivated fand, owing to double cropping. The figures (which are preliminary) represent thousands of acres:

Province.	Rice.	Wheat.	Millets.	Gram.	Total of all Food Grains and Pulses.	Oilseeds.	Sugar Cane.	Cotton.	Jute and other Fibres.	Total eropped Area.	Net Area cropped after deducting Area cropped more than once.
			1			1		ļ		l.	}
Bengal	21,166	146	10	184	23,061	1,822	222	26	2,963	30,498	25,955
Bihar and Orissa	17,019	1,281	1,257	• 924	28,040	1,954	260	89	321	32,547	26,697
Assam	4,646		2]	4,761	322	36	36	99	6,276	5,825
United Provinces	6,779	7,378	6,703	5,507	38,084	1,015	1,424	1,119	138	43,727	35,459
Punjab	742	8,767	3,909	3,401	20,405	1,093	367	1,443	52	27,510	22,684
N. W. Frontier Province .	45	927	299	169	2,195	89	30	55	1	2,549	2,540
Burma	. 10,219	25	816	34	11,757	1,412	14	236	1	14,295	13,856
Central Provinces and Berar.	5,000	2,969	5,909	808	18,213	2,809	26.	4,622	140	26,385	24,622
Madras	10,944	18	11,426	138	30,740	2,942	187	2,380	291	39,120	34,683
Bombay and Sind	2,711	1,664	14,251	550	22,073	1,192	55	4,024	116	28,893	27,701
* Minor Areas	. 83	29	47	28	310	5		29	1	403	368
* Total	79,354	23,204	44,669	11,743	199,639	14,655	2,527	14,068	4,122	242,203	220,430

^{*} The figures for Mineral Areas are for 1911-12.

Rains in January and February are generally Northern India it is sown broadcast (often beneficial but an excess of rainfall in these months usually produces rust with a diminution of the yield. On irrigated land 2 to 4 waterings left to itself. The average yield, which does are generally given. The crop is generally not amount to more than 400 lbs. per acre of of the yield. On irrigated land 2 to 4 waterings are generally given. The crop is generally harvested in March and April and the threshing and winnowing go on up till the end of May. In good years the surplus crop is bought up at once by exporters and no time is lost in putting it on the European market as other supplies are at that time of year scarce. In years of famines the local price is generally sufficiently high to restrict exports.

The Millets .- These constitute one of the most important group of crops in the country, most important group of crops in the country, suplying food for the poorer classes and fodder for the cattle. The varieties vary greatly in quality, height and suitability to various climatic and soil conditions. Perhaps the two best known varieties are Jowar (Sorghum vulgare) tall growing with a large open head, and Bajra with a close rat-tail head and thin stem. Generally speaking the jowars require better land than the bajras and the distribu-tion of the two crops follows the quality of the soil. Neither for jowar nor bajra is manure applied and cultivation is not so thorough as for wheat, the main objective being to produce a fine seed bed. As the crop is generally sown in the beginning of the monsoon it requires to be thoroughly weeded. It is often grown mixed with the summer pulses and other crops in which case thin seedings are resorted to. The subsidiary crops are harvested as they ripen either before the millet is harvested cr afterwards. The produce is consumed in the country.

Pulses are commonly grown throughout India and the grain forms one of the chief foods of the people. Most kinds do well but are subject to failure or shortage of yield owing are student to failure or shortage or yield owing to a variety of circumstances among which rain at the time of flowering appears to be one of the most important. They are therefore more suitable to grow as mixed crops especially with cereals, and are generally grown as such. Being deep rooted and practically independent of a Nitrogen supply in the soil they withstand drawnt and form a good elternation is according to the contraction of the contr drought and form a good alternation in a cereal rotation. The chief crops under this heading are gram, mash, mung and moth, gram forming are gram, mast, mung and motn, gram forming the main winter pulse crop while the others are grown in the summer. The pulses grow best on land which has had a good deep cultivation. A fine seed bed is not necessary. For gram especially the soil should be loose and well grated. Indian pulses are not largely wanted withough they are used to some cartery exported although they are used to some extent in Europe as food for dairy cows.

Cotton is one of the chief exports from India and the crop is widely grown in the drier parts of the country. The lint from Indian cotton is generally speaking short and coarse in fibre and unsuited for English

seed cotton, could doubtless be greatly increased by better cultivation.

Sugarcane.—Although India is not naturally suited for sugarcane growing, some 31 millions of acres are annually sown. The crop is mostly grown in the submontane tracts of Northern India, The common varieties are thin and hard, yielding a low percentage of juice of fair quality. In India white sugar is not made by the grower who simply boils down the juice and does not remove the molasses. The product called gur or gul is generally sold and consumed as such, although in some parts a certain amount of sugar-making is carried on. The profits, however, are small owing to the cheapness of imported sugar and there appears to be some danger to the crop if the present taste for gur were to die out. The question has been taken up by Government and a cane breeding station has been recently opened near Coimbatore in Madras with the object of raising seedling canes and otherwise improving the supply of cane sets. A number of sugar factories of a modern type have been set up within recent years in Bihar and the United Provinces. The chief difficulty seems to be the obtaining of a sufficiently large supply of canes to offset the heavy capital charges of the undertakings.

Oilseeds.—The crops classified under this heading are chiefly sesamum, linseed and the cruciferous oilseeds (rape, mustard, etc.) Although oilseeds are subject to great fluctuation in price and the crops themselves are more or less precarious by nature—they cover an immense area.

Linseed requires a deep and moist soil and is thus grown chiefly in Bergal, Bihar, the United Provinces and the Central Pro-vinces. The crop is grown for seed and not vinces. The crop is grown for seed and not for fibre and the common varieties are of a much shorter habit of growth than those of Europe. The yield varies greatly from practically nothing up to 500 or 600 lbs. of seed per acre. The seed is mainly exported whole but a certain amount of oil pressing is done in the country. country.

Sesamum (Or Gingelly) is grown mostly in Peninsular India as an autumn or winter crop. The seed is mostly exported.

Cruciferous Oilseeds form important group of crops in Northern India where they grow freely and attain a fair state of development. They are one of the most useful crops in the rotation. They occupy the land for a few months only, and owing to their dense growth leave the soil clean and in good and coarse in fibre and unsuited for English varieties are grown differing from each other mills. Japan and the Continent are the chief buyers. The crop is grown during the summer and the continent are the chief buyers. The crop is grown during the summer and requires a deep moist soil and light rainfall for its proper growth. Rain light rainfall for its proper growth. Rain in September or early October and harvested immediately after sowing or during the flowering period is injurious. In parts of Central subject to the attack of aphis (green fly) at the and Southern India the seed is sown in lines time of flowering and sometimes suffers conand the crop receives careful attention but over condition after their removal. A number of

AGRICULTURAL STATISTICS.

	1905-6.	1906-7.	1907-8.	1908-9.	1909-10.	1910-11.	1911-12.
	Acres.						
Net Area by professional survey	556,599,298 67,976,325	583,739,245 81,748,198	619,456,133 83,425,363	623,135,293 82,489,268	624,358,714 81,189,511	618,581,099 80,613,076	618,605,93 80,851,36
Not available for cultivation	135,329,173 104,646,615	137,164,249 106,696,580	153,520,625 113,288,334	157,636,634 113,066,521	157,627,145 114,665,202	149,994,347 115,096,758	149,605,179 114,700,376
Fallow land Net area sown with crops Area irrigated	41,601,052 207,683,741 35,345,538	39,935,421 214,025,596 36,653,779	54,208,922 210,883,511 39,913,578	50,153,056 218,039,911 42,486,724	45,335,412 222,911,547 41,581,436	46,948,606 223,064,601 40,895,474	54,982,32- 215,981,68: 40,679,14:
Area under Food-grains—							
Rice	22,402,307	73,541,118 25,137,416 7,700,109	75,980,682 18,424,191 7,629,550	72,800,536 21,198,764 8,002,683	78,730,642 22,769,918 8,104,753	78,524,391 24,397,699 7,840,222	76,636,88 25,025,23 8,432,50
Jawar Bajra	11,530,710	20,781,623 15,033,738 8,567,712	21,963,751 15,133,229 4,539,472	24,780,144 16,007,989 4,464,399	21,801,934 16,303,400 4,545,355	21,184,164 15,540,225 4,288,927	18,386,33 13,092,93 4,296,20
Maize Gram Other grains and pulse	11,024,170	6,171,715 13,411,948 29,771,837	6,296,375 6,816,816 29,585,726	6,784,224 11,264,479 31,534,019	6,857,925 13,153,400 31,396,982	6,311,627 13,946,210 23,069,948	5,591,34 14,128,88 29,507,10
Total Food-grains	183,655,446	195,117,216	186,369,792	196,837,237	203,664,289	204,103,413	195,097,43
Area under other food-crops (including gardens, orchards, spices, &c.).	7,012,988	7,274,315	7,493,186	7,193,324	7,446,923	7,467,584	7,582,43
Area under-							
Sugar Coffee	99,160	2,623,873 96,050 505,417	2,876,965 99,511 513,487	2,408,212 97,233 520,487	2,442,033 94,455 525,729	2,540,541 92,874 532,703	2,565,776 94,576 543,56

care has to be taken in the drying. The produce is largely exported whole, but there is a considerable amount of local oil-pressing-the cake being in demand for feeding purposes.

Jute .- Two varieties of the plant are cultivated as a crop, Capsularis and Olitorius. vated as a crop, capsuarus and Outorius, Jute growing is confined almost entirely to Eastern Bengal, in the Ganges-Brahmaputra Detta. The crop requires a rich moist soil. Owing to river inundation this part of India receives a considerable alluvial deposit every year and the land is thus able to sustain this year and the land is thus able to sustain this exhausting crop without manure. The crop is rather delicate when young, but once established requires no attention, and grows to a great height (10 to 11 feet). Before ripening the crop is cut and retted in water. After about three weeks submersion the fibre is removed by washing and beating. At the present high range of prices jute may be considered to be the best paying crop in India.

Tobacco is grown here and there all over the country chiefly, however, in Bengal, Bihar, Bombay, Madras and Burma. Of two varieties cultivated Nicotiana Tabacum is by far the most common. Maximum crops are obtained on deep and moist alluvium soils and a high standard of cultivation including liberal manuring is necessary. The crop is only suited to small holdings where labour is plentiful as the attention necessary for its proper cultivation is very are removed. The crop ripens from February onwards and is cut just before the leaves are become brittle. By varying the degree of fermentation of the leaves different qualities of tobacco are obtained. A black tobacco is required for *Hooka* smoking and this is the most common product but a certain amount of yellow leaf is grown for cigar making.

Live-stock consist mainly Ωf cattle, buffaloes and goats, horses not being used for agricultural purposes. Sheep are of secondary importance.

For draught purposes cattle are in more general use than buffaloes especially in the drier parts of the country, but buffaloes are very largely used in the low lying rice tracts. For dairying buffaloes are perhaps more pro-fitable than cows as they give richer milk and more of it: but they require more feeding. The poorer people depend largely on the milk of goats of which there are an enormous number throughout India. Cattle breeding is carried on mainly in the non-cultivated tracts in Central

is very subject to injury from rain and great extinction. Efforts to improve the quality of the cattle in the non-breeding districts by the use of selected bulls have hitherto been frustrated by the promiscuous breeding which goes on in the villages.

> Dairying.-Though little noticed, dairying forms a very large indigenous industry throughout India. The best known products are native butter (ghee) and cheese (dahi). During recent years a considerable trade in tinned butter has sprung up in Gujrat (Bombay Presidency). While pure ghee and milk can be procured in the villages, in the towns dairy products can scarcely be bought unadulterated.

Agricultural Improvement,-The chief improvements in the general agricultural prosperity of the country have been hitherto effected through Public Works. The irrigation canals have added enormously to the security and productiveness of the land commanded, while vast desert areas have been converted into flourishing agricultural districts. The Railways have undoubtedly increased values and have had a steadying influence on the prices of agricultural produce through the opening up of new markets.

The more important problems awaiting great. The seed is germinated in seed beds and the young plants are transplanted when a few inches high, great care being taken to shield them from the sun. The crop is very carefully weeded and heed. It is topped after depending a height of, say, 2 ft., and all suckers attaining a height of, say, 2 ft., and all suckers are moved. The crop ripens from February factorily settled there is room for a very great and general advance in agricultural methods. With adequate capital and proper organization India could with ease increase her agricultural produce by fifty per cent.

> The improvement of agriculture has for some time received the attention of Govern-Great advances have been made during the last 10 years through the recruitment of a staff of agricultural experts for investigation and research thus ensuring a continuous and concentrated effort towards improvement.

The main lines of investigations have been towards the improvement of the quality and yield of crops through selection and breeding of plants, the improvement in general methods of cultivation and the prevention and cure of insect and fungus disease. Although suffion mainly it the non-cultivated tracts in Central and Southern India, Southern Punjab and Rajputana, where distinct breeds with definite that the contracters have been agrees ved. The best known draught breeds are Hansi, Nellore, Amritmehal, Gujrat, Malvi, and the finest milk cows are the Sahiwal (Punjab) Gir (Kabullandar) and Sind. Owing, however, to the possibilities of greatly enhanced yields by better encroachment of cultivation on the grazing cultivation, and improved varieties, and the areas well-bred cattle are becoming scarce, with a not shown himself averse from imand some of the breeds are threatened with provement where such is within his means. cient time has not elapsed to produce any

AGRICULTURAL STATISTICS OF BRITISH INDIA.

						1905-8.	1906-7.	19,07-8.	1908-9.	1909-10	1910-11.	1911-12.
-		•				Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Ares under Oilsee Linseed Sesamum (til Rape and Mu Other Oilseed) istard	::	::	::	::	2,232,523 3,914,737 3,503,060 2,850,933	2,514,884 3,908,328 4,231,554 3,310,599	1,401,220 4,287,728 3,297,455 8,499,570	1,981,826 4,232,568 8,887,122 4,004,082	2,116,281 4,740,092 4,093,590 3,675,094	2,512,032 4,211,829 3,898,746 3,911,623	3,763,222 4,174,341 4,224,736 4,332,566
	Total	Oilse	eds		::	12,501,253	13,965,365	12,485,973	14,105,598	14,625,057	14,534,230	16,494,865
Area under — Cotton Jute Other fibres Indigo Opium Tobacco Fodder crops					::	13,099,359 3,140,822 651,729 401,138 654,078 1,018,506 3,933,735	13,771,268 3,523,558 692,484 448,594 614,879 1,009,210 4,547,723	13,909,269 3,942,675 746,696 405,905 538,042 974,458 4,908,324	12,058,974 2,835,453 722,718 286,354 416,318 953,712 4,627,878	13,172,188 2,756,820 824,669 295,706 374,208 1,013,352 4,748,899	14,447,690 2,828,669 769,594 282,757 383,335 1,067,682 4,881,742	14,568,189 3,090,827 688,868 274,925 220,164 998,943 4,977,924
Estimated yield* Rice (Cleane Wheat Coffee † Tea † Cotton Jute Linseed • Rape and M Sesamum (ti Groundnut Indigo Cane-sugar	d)		40	00 lb. b	cwt. tons lb. ales ons cut. tons	433,138,300 8,570,140 31,171,668 221,712,407 4,168,451 8,140,900 961,600 389,800 211,200 48,200 1,725,500	427,748,800 8,491,700 17,777,032 241,408,510 4,934,000 9,206,400 425,200 1,053,100 541,000 273,700 65,700 2,205,300	379,211,300 6,125,100 33,042,427 244,668,973 3,782,401 9,817,800 103,200 688,000 285,700 352,500 52,300 2,046,900	390,979,900 7,639,000 27,648,357 247,364,750 4,200,150 6,310,800 297,700 987,500 404,300 405,700 38,800 1,872,900	557,136,000 9,633,600 34,983,569 258,317,942 4,928,000 427,800 1,218,400 560,800 450,300 2,127,100	557,938,000 10,040,500 \$\frac{1}{2}\$ 263,605,240 4,303,000 7,932,000 563,600 1,233,200 511,800 503,200 46,000 2,217,800	521,992,000 9,813,500 \$2 268,823,436 3,925,000 8,234,700 641,200 1,271,000 371,400 542,200 48,700 2,390,400

^{*} The acreage of crops given in this table is for British India only, but the estimated yield includes the crops in certain of the Native States.

[†] The statistics of the production of tea are for calendar years; those for coffee were for calendar years before 1908-9.

[‡] Return of production discontinued.

Crop Forecasts for 1914-15.—The following is a summary of the various crop forecasts relating to the season 1914-16 issued by the Department of Statistics, India. The estimated outturn is not yet available:—

Crop.		Tracts comprised in the figure.	Percentage of average Indian crop represent- ed by the tracts men- tioned in col. 2.	Estimated Area.	Ratio of reported area to annual average for these tracts at correspond- ing date.	
1		2	3	4	5.	
-		,		Acres.	Per cent.	
Cotton		All cotton growing tracts	100 .	22,138,000	119	
Sesamum	•••	U. P. † Madras, C. P. and Berar, Bombay and Sind,* Bengal, Bihar and Orissa, Punjab, and Ajmer, Merwara.	79	8,540,400	119	
I ndigo	٠	Bihar and Orissa, Madras, Pun- jab, Bombay and Sind* and Bengal.	88.1	104,200	55	
Rice	***	Bengal, Madras, Bihar and Orissa, Burma, U. P. Bombay and Sind,* C. P. and Birar, and Assam.	98.9	72,167,000	106	
Groundnut	٠	Madras, Bombay,* & Burma		1,726,200	170	
S ugarcane	••	U. P. Punjab, Bihar and Orissa, Bengal, Madras, Bombay and Sind,* Assam, NW. F. Pro- vince and C. P. and Berar.	90.4	2,450,100	106	

N.B.—The ratios in column 3 are calculated on the total acreage in all India in the case of cotton and on that in British India in the case of other crops.

Government Expenditure.—The total expenditure incurred by the Imperial Department of Agriculture during the financial year, 1912-18, was Re. 4,22,372 as under:—

In addition to the expenditure noted above, the Provincial Departments of Agriculture was Re. 4,22,372 as under:—

The details are given below:—

The details are given below:—

The details are given below:—

The details are given below:—

The details are given below:—

"Unmixed Crop-19

t

				report.	Tue	details	are	given	belo	w:
0.00	_		Rs.							Rs.
Office of the Agricultu	ıral Adv	iser	1,43,509			• •	••			3,47,109
Cotton Specialist	••		22,295			Orissa	••			2,28,461
Chemical Section	••	• •	34,828	Unite	d Pro	vinces				6,13,259
Mycological Section	••		39,650	Punja	b				•••	2,90,132
Entomological Section			36,914	Bomb	ay			••	•••	7,49,828
Pathological Entome	ological	Sec-		Madra					• • • • • • • • • • • • • • • • • • • •	4,34,171
tion		• •	26,641	Centr	al Pr	ovinces				6,11,287
Botanical Section	••	• •	36,099	Burm					••	1.56,993
Bacteriological Section	ı	••	23,783	Assan	1	• •		••	• •	1,14,817
Agricultural Section	••		58,653	North	-Wes	t Provi	nooc	••		
•		-					11008	••	••	23,620
	Total	••	4,22,372	1				Total		35,69,677

Including Native States.

AREA, CULTIVATED and UNCULTIVATED, in 1911-12; in ACRES.

	Area		DEDUCT		NET AREA.		
Administrations.	according to Survey.	Feudatory and Tributary States.	Area for which no Returns exist.	Total.	According to Survey.	According to Village Papers.	
Bengal Bihar and Orissa Assam. United Provinces (Agra). United Provinces (Oudh). Punjab North-West Frontier Province. Upper Burma Lower Burma Coentral Provinces Berar Ajmer-Merwara Coorg Bombay Sind Pargana Manpur*		18,334,720 7,969,920 4,345,232 24,511,382	::	3,451,520 18,334,720 7,969,924 4,345,232 24,511,382 140,800 3,907,722 19,960,343 6,378,899 36,989,440 3,872,000	53,172,976 31,305,574 53,027,705 15,306,720 62,215,355 8,437,662 53,804,896 54,994,247		
Total	748,557,916	129,951,978	••	129,951,978	618,605,938		

	CULTIVA	ATED.	Unoulti	VATED.		
Administrations.	Net Area actually Cropped.	Current Fallows.	Cultivable Waste other than Fallow.	Not avilable for Cultivation.	Forests.	
Bengal Bihar and Orissa Assam United Provinces (Agra). United Provinces (Oudh) Punjab North-West Frontier Province. Upper Burma Lower Burma Central Provinces Berar Ajmer-Merwara Coorg Madras Bombay Sind Pargana Manpur	24,031,100 27,556,300 6,711,698 26,390,618 9,200,093 22,257,053 2,284,540 4,620,129 8,719,787 17,968,886 7,057,414 220,175 141,228 33,068,409 22,906,127 2,940,938 7,188	4,730,353 3,615,642 2,529,939 2,599,248 663,965 5,839,364 563,764 4,438,091 743,787 2,228,950 574,871 146,038 8,935,084 10,636,216 5,933,995 5,933,995	7,422,086 15,222,445 7,440,891 2,758,396	11,150,645 5,510,500 7,656,765	4,080,491 3,428,301 2,330,491 8,718,081 613,184 3,333,041 374,333 11,863,944 7,101,233 15,095,665 2,273,048 2,273,04	
Total	215,981,683	54,982,324	114,700,370	149,605,179	80,851,360	

^{*} A British district in Central India.

AREA, UNDER IRRIGATION IN 1911-12: IN ACRES.

	}		AREA IRRIGA	TED.	
Administrations.	Total Area	Ву С	anals.		
	Cropped.	Govern- ment.	Private.	By Tanks.	By Wells.
Bengal Bihar and Orissa Assam United Provinces (Agra) United Provinces (Oudh) Punjab North-West Frontier Provinces Upper Burma Lower Burma Central Provinces Berar Ajmer-Merwara Coorg Madras Bombay Sind	30,436,800 32,955,600 6,167,760 32,760,757 12,030,224 26,308,442 2,688,888 5,017,168 8,725,618 20,294,576 7,069,77 253,406 142,135 37,380,133 22,499,345	111,323 797,679 797,871 1,971,333 6,964,439 221,087 419,792 12,813 2,610 3,534,827 149,705 2,636,845	244,381 334,455 119,093 20,521 420,002 439,344 20,4,84 21,790 1,879 	728,104 622,894 48,555 7,435 135,786 3,505 427,768 238 25,134 1,840 3,298,685 5,8,256	20,773 625,858 2,974,843 890,940 3,420,444 88,913 8,104 2,218 58,796 31,882 91,190 1,442,280 696,385 46,685
Pargana Manpur	249,001,751	16,820,827	2,068,428	5,364,200	10,408,424

	AREA IRR	IGATED.	CROPS IRRIGATED.*				
Administrations.	Other Sources.	Total Area Irrigated.	Wheat.	Other Cereals and Pulses.	Miscel- laneous Food Crops.	Other Crops.	
Bengal Bihar and Orissa Assam United Provinces (Agra) United Provinces (Oudh). Punjab North-West Frontier Provinces Upper Burma Lower Burma Central Provinces Berar Ajmer-Merwara Coorg Madras Bombay Sind Pargana Manpur	565,262 1,468,083 196,613 1,308,378 712,544 142,282 97,273 80,848 78,729 23,185 521 1,131,482 87,920 134,092	8,844,960 316,884 6,323,630 1,612,484 10,954,602 846,617 849,014 106,638 524,441 32,641 116,375 4,450 9,588,878 1,005,182	273,861 1,802,953 623,182 4,551,328 280,146 73 14,630 9,403 12,245 5,467 195,635 349,007	2,545,253 301,922 3,196,839 705,382 2,492,870 885,401 836,759 103,818 457,741 9,98 84,643 4,450 9,696,159 531,304 2,194,993	451,795 910,200 14,097 151,038 38,004 571,319 55,589 42,221 3,064 49,598 21,455 11,307 1,009,821 165,676 49,807	180,106 125,935 6,506 1,749,000 289,836 8,701,094 130,250 80 2,4772 1,085 22,088 476,740 217,985 609,262 8	
Total	6,017,263	40,679,142	8,140,153	25,090,634	3,634,481	7,505,710	

[•] Includes the area irrigated at both harvests

CROPS UNDER CULTIVATION IN 1911-12; IN AC	CROPS UNDER	CULTIVATION	IN	1911-12:	IN	ACRES.
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CROP	S UNDER CO	JEIIVALION	IN 1811-12	, IN HORES.	<u> </u>	
Administrations.	Rice.	Wheat.	Barley.	Jawar or Cholum (Great Millet).	Bajra or Cumba (Spiked Millet).	Ragi or Marus (Millet.
Bengal Bihar and Orissa Assan: United Provinces Agra)	20,960,900 17,365,000 4,616,197 3,430,247	1,285,20	0 1,340,3 00 2 507	94,700	1 1	1,008,900 1,931
United Provinces (Oudh) Punjab N. West Frontier Province Upper Burma	1,844,495 513,731 47,181 1,957,713	1,995,17 9,725,49 1,198,99 27,48	4 1,339,097 3 296,183	554,234	1,155.046 75,638	16,805
Lower Burma Central Provinces Berar		3,290,69	2 23,457 64	10 1,667,4*9 2,246,636	708 41,888 74,879	23,799
Ajmer-Merwara	139 82,527 10,289,461	· · · · ·	1		10,849 3,383,565	6.379
Bombay	1,682,035 1,088,655 137	368,449	18,767	6,063,566 389,396 2,262	4,663,795 414,935 32	745
Totel	76.636.887	25,025,230	8,432,503	18,386,332	13,092,938	4,296,207
Administrations.	Maize.	Gram (pulso).	Other Food Grains and Pulses.	Total Food Grains and Pusies.	Lin- seed.	Til, Jinjili or Ses- amum.
Bengai Bihar and Orlesa Assam United Provinces (Agra)	94,700 1,661,400 19,450 998,417	176,700 992,100 905 5,175,443	1,416,700 4,537,300 87,365 4,406,615	28,351,900 4,726,518	567,900 13,622	282,800 205,800 5,581 349,192
United Provinces (Oudh Punjab N. West Frontier Province Upper Burma	795,775 955,348 409,842 161,145	1,697,097 4,099,894 174,119 38,905	2,447,529 1,018,936 99,299 466,005	19,378,585 2,354,611	46,099 11	25,817 94,636 5,467 1,010,049
Lower Burma Central Provinces Berar	21,232 142,268 2,103	1,377 993 113 117 221	27,234 4 348 695 616 950	7,987,104 15,311,835 8,419,201	1,721,076 137,718	61,489 808,935 77,741
Aimer-Merwara	48,697 118,011	26,176 1,540 134,900	14,013 998 7,024,105	212,778 91,444 28,586,332	561 25,905	1,828 276 887,340
			í			303,344
Bombay	165,268 1,833 860	422,274 76,439 678	2,703,247 232,038 72	17,864,063 2,591,250 5,615	196,903 20 321	53,113 324

CROPS UNDER CULTIVATION IN 1911-12: IN ACRES.

CROPS	UN	DER CULT	IVATION IN	1911-12:	AURES.		
Administrations.		Rape and ustard.	Other Oil Seeds.	Total Oil Seeds.	Condiments and Spices.	Sugar Cane.	Sugar Other.
Bengal	1	1,317,600 780,000 281,823 101,947	80,600 496,600 163 120,544	1,887,800 2,050,300 301,189 1,189,842	157,400 82,400 2,977 105,728	222,600 263,100 36,561 1,120,040	38,000 200
United Provinces (Oudh) . Punjab N. West Frontier Province Upper Burma	: :	76,970 1,456,202 99,447 296	454 1,788 40 *139,428	337,368 1,598,725 104,965 1,150,373	5,347	220,597 298,296 31,683 2,542	25,628
Lower Burma Central Provinces Berar	-	3,341 51,622 486	*3,133 398,915 79,867	67,963 2,980,548 295,812	58,268 25,228	11,360 22,951 1,252	1,404
Ajmer-Merwara Coorg Madras		1,138	45 2,014,128	3,527 321 2,927,382	2,444 720,664	108,032 66,807	90,387
	-	52,314	855,563 134,686 612	1,357,360 240,133 1,257	4,779	3,619 22	:: ——
. Total .	<u> </u>	4,224,736	4,332,566	16,494,86	1,502,537	2,410,151	155,619
Administrations.		Cotton.	Jute.	Other Fibres.	Total Fibres.	Indigo.	Other Dyes.
Bengal Bihar and Orissa Assam United Provinces (Agra)	::	34,100 89,100 37,620 841,524	258,200 94,927	20,20	0 367,500 2 132,859	110,100	7,100
United Provinces (Oudh) Punjab N. W. Frontier Province Upper Burma		59,657 1,462,500 56,373 171,979	::	18,19 23,44 70 30	77,855 2 1,485,942 3 57,076	5,521 38,672 9	4,481 55
Lower Burma Central Provinces Berar		20,190 1,391,955 3,256,245	5	65,18 43,90	37 1,457,142	15	 31 712
AjmerMerwara Coorg Madras	::	27,56 2,675,83	6	279,7	27,640 25 2,955,56	3	4,43
Bombay Sind Pargana Manpur	::	4,107,36 335,65 52	6		74 4,227,13 56 336,31 33 55	2 . 5,241	299 51
Total		14,568,18	9 3,090,82	688,8	68 18,347,88	4 274,925	20,66

•	CROP	S UNDER (TITATIVATIO	N IN 101	1-12: IN AGI	79	
Administration		Opium.	Tea.	Coffee		Other	Fodder r- Crops.
Bengal Bihar and Orissa Assam United Provinces (Ag	ra) .	2,600 103,882	146,40 2,20 354,27 7,89	8	306,300 116,300 8,384 75,778	600	99,100 30,700 5,971 992,950
United Provinces (Ou Punjab N. W. Frontier Provi Upper Burma		2,262	9,93	1	17,657 76,430 12,447 0 29,670	1,02	74,748
Lower Burma Central Provinces Berar	:		::	::	3 59,228 17,958 8,489	. 102	156
Ajmer-Merwara Coorg Madras		::	21,107		7 192,205	48,278	273 018
Bombay Sind Pargana Manpur		3	:: 14		2 68,286 9,766		
Total		220,164	543,565	94,57	998,943	53,208	4,977,924
Administration	5.	Orchards and Garden Produce.	Miscell Crop Food.		Total Area Cropped.	Deduct Area Cropped more than once.	Net Area Cropped.
Bengal Bihar and Orissa Assam United Provinces (Agr	:a)	944 200 655,200 371,779 267,105	510,300	405,100 62,098	32,955,600 6,167,760	5,399,300 456,060	27,556,300 2 5,711,698
United Provinces (Oue Punjab N. W. Frontier Provin Upper Burma	٠	94,213 163,856 5,033 34,350	308,320	3,818 13,120 3,793 4,443	26,308,442 2,688,888	4,051,38	9 22,257,058 2,284,540
Lower Burma Central Provinces Berar	::	402,928 86,349 13,047	35,771 4,015 5,508	115,212 620 211	20,294,576	2,325,690 12,363	17,968,886 7,057,414
Ajmer-Merwara Coorg Madras	::	526 4,547 1,172,953	3,954 	739 138,332	142,135 37,380,133	4,311,724	33,068,409
Bombay Sind Pargans Manpur	::	137,464 42,654 7	18 84 	2,072 19,616 51	23,499,345 3,263,325 7,509	593,218 322,387 321	22,906,127 2,940,938 7,188
Tota	վ	4,896,211	1,653,684	1,259,144	249,001,751	33,020,068	215,981,683

Meteorology.

The meteorology of India like that of other countries is largely a result of its geographical position. The great land area of Asia to the northward and the enormous sea expanse of the Indian Ocean to the southward are the determining factors in settling its principal meteorological features. When the Northern Hemisphere is turned away from the sun, in the northern winter, Central Asia becomes an area of intense cold. The meteorological conditions of the temperate zone are pushed southward and we have over the northern provinces of India the westerly winds and eastward moving cyclonic storms of temperate regions, while, when the Northern Hemisphere is turned towards the sun, Southern Asia becomes a super-heated region drawing towards it an immense current of air which carries with it the enormous volume of water vapour which it has picked up in the course of its long passage over the wide expanse of the Indian Ocean, so that at one season of the year parts of India are deluged with rail and at another

persistent dry weather prevails.

Monsoons.—The all-important fact in the meteorology of India is the alternation of the seasons known as the summer and winter monsoons. During the winter monsoon the winds are of continental origin and hence, dry, fine, weather, clear skies, low humidity and little air movement are the characteristic features of this scason. The summer rains cease in the pro-vinces of the North-West Frontier Province and the Punjab about the middle of September and the Punjab about the middle of September after which cool westerly and northerly winds set in over that area and the weather becomes fresh and pleasant. These fine weather conditions extend slowly eastward and southward so that by the middle of October, they embrace all parts of the country except the southern half of the Peninsula, and by the end of the year have extended to the whole of the Indian land and sea area, the ruins withdrawing to the year have extended to the whole of the Indian land and sea area, the rains withdrawing to the Equatorial Belt. Thus the characteristics of the cold weather from October to February over India are:—Westerly winds of the temperate zone over the extreme north of India; to the south of these the north-east winds of the winter monsoon or perhaps more properly the north-east Trades and a gradually extending area of fine weather which, as the season progresses, finally embraces the whole Indian land and sea area. Two exceptions to these fine weather conditions exist during this period. fine weather conditions exist during this period, viz.; the Madras coast and the north-west of olz., the manuas coase and the notes were of India. In the former region the north-east winds which set in over the Bay of Bengal in October coalesce with the damp winds of the October coalesce with the damp winds of the retreating summer monsoon, which current curves round over the Bay of Bengal, and, blowing directly on to the Madras coast gives to that region the wettest and most disturbed weather of the whole year, for while the total rainfall for the four months June to September, i.e., the summer monsoon, at the Madras Observatory amounts to 15.36 inches the total rainfall for the three months October to December amounts to 29.48 inches. The other region in which the weather is unsettled, during this period of generally settled conditions, is North-west India. This region during January, February and part of March is traversed by

a succession of shallow storms from the westward. The number and character of these storms vary very largely from year to year and in some years no storms at all are recorded. In normal years, however, in Northern India periods of fine weather alternate with periods of disturbed weather alternate with periods of disturbed weather (occurring during the passage of these storms) and light to moderate and even heavy rain occurs. In the case of Peshawar the total rainfall for the four months, December to March, amounts to 5.26 inches while the total fall for the four months, June to September, is 4.78 inches, showing that the rainfall of the winter is, absolutely, greater in this region than that of the summer monsoon. These two periods of subsidiary "rains" are of the greatest economic importance. The fall in Madras is, as shown above, of considerable actual amount, while that of North-west India though small in absolute amount is of the greatest consequence as on it largely depend the grain and wheat crops of Northern India.

Spring Months.—March to May and part of June form a period of rapid continuous increase of temperature and decrease of barometric pressure throughout India. During this period there occurs a steady transference northward of the area of greatest heat. In March the maximum temperatures, slightly exceeding 100, occur in the Deccan; in April the area of maximum temperatures, between 100° and 105°, lies over the south of the Central Provinces and Gujarat; in May maximum temperatures, varying between 105° and 110°, prevail over the greater part of the interior of the country while in June the highest mean maximum temperatures exceeding 110° occur in the Indus Valley near Jacobabad. Temperatures exceeding 120° have been recorded over a wide area including Sind, Rajputana; the West and South Punjab and the west of the United Provinces, but the highest temperature hitherto recorded is 1280° registered at Jacobabad on June 121h, 1897. During this period of rising temperature and diminishing barometric pressure, great alterations take place in the air movements over India, including the disappearance of the north-east winds of the winter monsoon, and the air circulation over India and its adjacent seas, becomes a local ofreulation, characterised by strong hot winds down the river valleys of Northern India and increasing land and sea winds, as they become stronger and more extensive, initiate large contrasts of temperature and humidity which result in the production of violent local storms. These take the forms of dust storms in the dry plains of Northern India and of thunder and hallstorms in regions where there is inter-action between damp sea winds and dry winds from the interior. These storms are frequently accompanied with winds of excessive force, heavy hail and torrential rain and are on that account very destructive.

By the time the area of greatest heat has been established over north-west India, in the last week of May or first of June, India has become the seat of low barometric pressures relatively to the adjacent seas and the whole character of the weather changes. During

the hot weather period, discussed above, the winds and weather are mainly determined by local conditions. Between the Equator and Lat. 30° or 35° south the wind circulation is that of the south-east trades, that is to say from about Lat. 30°-35° south a wind from from about Lat. 30°-35° south a wind from south-east blows over the surface of the sea up to about the equator. Here the air rises into the upper strata to flow back again at a considerable elevation to the Southern Tropic or beyond. To the north of this circulation, i.e., between the Equator and Lat. 20° to 25° North, there exists a light unsteady circula-tion, the remains of the north-east trades, that is to say about Lat. 20° North there is a northeast wind which blows southward till it reaches the thermal equator where side by side with the south-east Trades mentioned above, the air rises into the upper strata of the atmosphere. Still further to the northward and in the immediate neighbourhood of land there are the circulations due to the land and sea breezes which are attributable to the difference in the heating effect of the sun's rays over land and sea. It is now necessary to trace the changes which occur and lead up to the establishment of the south-west monsoon period. The sun at this time is progressing slowly northward towards the northern Tropic. Hence the thermal equator is also progressing northward and with it the area of ascent of the south-east trades circulation. Thus the south-east trade winds cross the equator and advance further and further northward, as the thermal equator and area of ascent follows the sun in its northern progress. At the same time the temperature over India increases rapidly and barometric pressure diminishes, owing to the air rising and being transferred to neighbouring cooler regions—more especially the sea areas. Thus we have the southern Trades circulation extending northward and the local land and sea circulation extending southward until about the beginning of June the light unsteady interfering circulation over the Arabian Sea finally breaks up, the immense circulation of the south-east Trades, with its cool, moisture laden winds rushes forward, becomes linked on to the local circulation proceeding between the Indian land area and the adjacent seas and India is invaded by oceanic conditions the south-west monsoon proper. This is the most important season of the year as upon it depends the prosperity of at least five-sixths of the people of India.

When this current is fully established a continuous air movement extends over the Indian Ocean, the Indian seas and the Indian Iand area from Lat. 30° S. to Lat. 30° N. the southern half being the south-east trades and the northern half the south-west monsoon. The most important fact about it is that it is a continuous horizontal air movement passing over an extensive oceanic area where steady evaporation is constantly in progress so that where the current enters the Indian seas and flows over the Indian land it is highly charged with aqueous vapours.

The Current enters the Indian seas quite at the commencement of June and in the course of the succeeding two weeks spreads over the Arabian Sea and Bay of Bengal up to their extreme northern limits. It advances over India from these two seas. The Arabian sea current blows on to the west coast and sweeping over the Western Ghats prevalls more or less exclusively over the Peninsula, Central India, Rajputana and north Bombay. The Bay of Bengal current blows directly up the Bay one portion is directed towards Burma, East Bengal and Assam while another portion curves to south at the head of the Bay and over Bengal, and then meeting with the barrier of the Himalayas curves still further and blows as a south-easterly and easterly wind right up the Gangetic plain. The south-west monsoon continues for three and a half to four months, viz., from the beginning of June to the middle or end of September. During its prevalence more or less general though far from continuous rain prevals throughout India the principal features of the rainfall distribution being as follows. The greater portion of the Arabian Sea current, the total volume of which is probably three times as great as that of the Bengal current, blows directly on to the west coast districts. Here it meets an almost continuous hill range, is forced into ascent and gives heavy rain alike to the coast districts and to the hilly range, the total averaging about 100 inches most of which falls in four months. The current atter parting with most of its moisture advances across the Peninsula giving occasional uncertain rain to the Deccan and passes out into the Bay where it coalesces with the local current. The northern portion of the current blowing across the Gujarat, Kathiawar and Sind coasts gives a certain amount of rain to the coast districts and frequent showers to the Aravalli Hill range but very little to Western Rajputana, and passing onward gives moderate to heavy rain in the Eastern Punjab, Eastern Rajputana and the North-west Himalayas. In this region the current from the Bay.

The monsoon current over the southern half of the Bay of Bengal blows from southwest and is thus directed towards the Tenasserim hills and up the valley of the Irrawady to which it gives very heavy to heavy rain. That portion of this current which advances sufficiently far northward to blow over Bengal and Assam gives very heavy rain to the low-lying districts of East Bengal and immediately thereafter coming under the influence of the Assam Hills is forced upwards and gives excessive rain (perhaps the heaviest in the world) to the southern face of these hills. The remaining portion of the Bay current advances from the southward over Bengal, is then deflected westward by the barrier of the Himalayas and gives general rain over the Gangetio plain and almost daily rain over the lower ranges of the Himalayas from Sikhim to Kashmir.

To the south of this easterly wind of the Bay current and to the north of the westerly wind of the Arabian Sea current there exists a debatable area running roughly from Hissar in the Punjab through Agra, Allahabad and part of Chota Nagpur to Orissa, where neither current of the monsoon prevails. In this area the rainfall is uncertain and would probably

be light, but that the storms from the Bay if Bengal exhibit a marked tendency to advance along this track and to give it heavy falls of occasional rain.

occasional rain.

The Total Rainfall of the monsoon period (June to September) is 100 inches over part of the west coast, the amount diminishes eastward, is below 20 inches over a large part of the centre and east of the Peninsula and is only 5 inches in South Madras; it is over 100 inches on the Tenasserim and South Burma coast and decreases to 20 inches in Uppaer Burma; it is over 100 in the north Assam Valley and diminishes steadily westward and is only 5 inches in the Indus Valley.

The month to month distribution for the whole of India is:--

May . . . 2 ° 60 inches June . . . 7 ° 10 , July 11 ° 25 , August . . . 9 ° 52 , September . . . 6 ° 78 , October . . . 3 ° 15 ,

Cyclonic storms and cyclones are an almost invariable feature of the monsoon period. In the Arabian Sea they ordinarily form at the commencement and end of the season, viz. May and November, but in the Bay they form a constantly recurring feature of the monsoon season. The following gives the total number of storms recorded during the period 1877 to 1901 and shows the monthly distribution:

Jan. Feb. Mar. Apl. May June
Bay of Bengai 1 4 13 28

July Aug. Sep. Oct. Nov. Dec.
Bay of Bengai 41 36 45 34 22 8

Jan. Feb. Mar. Apl. May June
Arabian Sea ... 2 15

July Aug. Sep. Oct. Nov. Dec. Arabian Sea 2 .. 1 1 5 ..

The preceding paragraphs give an account of the normal procession of the seasons throughout India during the year, but it must be remembered, that every year produces variations from the normal, and that in some years these variations are very large. This is more particularly the case with the discontinuous element rainfall. The most important variations in this element which may occur are:—

- Delay in the commencement of the rains over a large part of the country, this being most frequent in North Bombay and North-west India.
- (2) A prolonged break in July or August or both.
- (3) Early termination of the rains, which may occur in any part of the country.
- (4) The determination throughout the monsoon period of more rain than usual to one part and less than usual to another part of the country. Examples of this occur every year.

About the middle of September fine and fresh weather begins to appear in the extreme north-west of India. This area of fine weather and dry winds extends eastward and southward, the area of rainy weather at the same time contracting till by the end of October the rainy area has retreated to Madras and the south of the Peninsula and by the end of December has disappeared from the Indian region, fine clear weather prevailing throughout. This procession with the numerous variations and modifications which are inseparable from meteorological conditions repeats itself year after year.

MONSOON OF 1914.

abundant, and in this respect contrasted fa-abundant, and in this respect contrasted fa-vourably with those of 1913. The Arabian Sea current appeared on the west coast of the During the last ten days of September the mon-Peninsula, on the 4th June, but did not pene-son was active chiefly in Burma, northeast trate freely inland until about the 23rd. In northeast India a strong burst of rainfall occurred about the middle of June, but it was not till the end of the month that the Bay current established itself there. The currents were very vigorous during nearly the whole of July and provided abundant rain. They were of normal strength in August, but were determined to an abnormal extent to Lower Burma, Bihar and the Peninsula to the detriment of the greater part of northern and central India. A pronounced break obtained in the region usually served by the Arabian Sea current from August 25th to September 3rd; but thereafter a great improvement occurred in the activity of the monsoon, and a cyclonic storm which travelled along a curved path across the north Madras East, where the monsoon rains of 1913 were coast to the Simia Hills resulted in abundant rainfall over a large part of the country during resulted week. The dissipation of the storm of the normal.

The monsoon rains of 1914 were on the whole on the 19th September marked the termination bundant, and in this respect contrasted fa- of the rainy season of 1914 in the northwest: soon was active chiefly in Burma, northeast India and the Peninsula, and the changes characteristic of the transition from the sum mer to the autumnal rains were in progress.

The Rainfall.—The total rainfall of the period June to September in the plains of India period June to September in the pinns of India according to the data of the stations in the Indian Daily Weather Report, was in excess by 3" or 8 per cent, but to this result July alone contributed nearly 2\frac{2}{3}". The local dis-tribution was very satisfactory inasmuch as in 21 of the 33 rainfall divisions the recorded amounts were within 19 per cent of the normal; in ten they were in excess by more than 20 per cent. and only in two, Kashmir and Mysore, was there a defect of over 19 per cent. In the United Provinces, Rajputana and Central India

				••	Rainfall, June to September 1914.				
	Divis	lon.			Actual.	Normal.	Departure from normal.	Percentage departure from normal.	
Burma			_		85 - 5	73.9	+11.6	+ 16	
Assam					54.2	60.3	5·8	— 10	
Bengal					49.6	56.0	- 6 4	11	
Bihar and Orissa					44.8	45.8	1.0	— 2	
United Provinces					36.3	86.6	- 0.3	- 1	
Punjab					20.5	15.7	+ 4.8	+ 31	
North-West Fron	tier Pı	ovince	·		6 4	5.1	+ 1.3	+ 25	
Sind					4.7	4.8	0.1	2	
Rajputana .					18.6	18.4	+ 0.2	+ 1	
Bombay					50.7	38.6	+12.1	+ 31	
Central India					34.0	84.0			
Central Provinces			·		38.0	40.6	— 2·6 .	- 6	
Hyderabad	••				38.8	27.2	+11 1	+ 14	
Мувоге	••				11.9	15.5	— 8·6	— 23	
Madras	••				80·1	26.3	+ 3.8.	.+ 5	
Mean of	India				39.8	36.8	+ 3.0	·· ₊ 8	

The Textile Industry.

India has been the home of the cotton trade from the earliest times. Its cotton, known as white wool, was well known to the ancients, and its cloth was familiar to the West in the days of the overland route. The name Calico comes from the fine woven goods of Calicut, and the products of the Dacca handlooms are still remarkable as the finest muslins human skill can produce,

Indian Cotton.

The exports of Indian cotton began to assume importance with the opening of the sea route. They received an immense stimulus during the American Civil War, when the close blockade of the Confederate ports produced a cotton famine in Lancashire, and threw the English spinners back on India for their supply of raw material. When the war broke out the shipments of Indian cotton were 528,000 bales, but during the last years of the war they averaged 973,000 bales. Most of this cotton was sold at an enormously inflated price, and induced a flow of wealth into Bombay, the great centre of the trade, for which there was no outlet. The consequence was an unprecedented outburst of speculation known as the "Share Mania," and when the surrender of Lee re-opened the Southern Ports widespread ruin followed. It is estimated that the surplus wealth brought into the country by the American Civil War aggregated £92 millions. Since then the cultivation of Indian cotton, although interrupted by famine, has steadily increased. For the last season for which returns are available, 1913-14, the total area in all the territories reported on was computed at 24,595,000 acres or 11.7 per cent. on the 22,028,000 acres or 11.7 per cent. on the 22,028,000 acres (revised figure) of the previous year. The total estimated outturn was 5,201,000 bales of 400 lbs. as against 4,600,000 bales for previous year, representing an increase of nearly 13 per cent. To this figure may be added some 1,000 bales estimated as the production in Native States in Benar and Orissa which make no return.

Bombay, the Central Provinces and Hyderabad are the chief producing centres. The following table gives the rough distribution of the outturn. The figures are the estimated figures for the past season, and are not exact, but they indicate the distribution of the crop:—

_		dore
Burma	50,000	288,000
Behar and Orissa	19,000	86,000
Азат	12,000	83,000
Hyderabad	400,000	3,653,000
Bengal	51,000	51,000
United Provinces	1,586,000	1,586,000
Ajmer-Merwara	15,000	57,000
Punjab	594,000	2,053,000
North-West Frontier	14,000	59,000
Sind	133,000	332,000
Bombay and Baroda	1,307,000	6,351,000
Central Provinces	961,000	4,715,000

Central India			273,000	1,426,000
Madras	••		513,000	2,593,000
Rajputana	••	••	132,000	470,000
Mysore		••	16,000	93,000

Of an average outturn of four million bales it may be said that 1,733,000 bales are exported. 1,781,000 consumed by the Indian mills, and 450,000 consumed in India outside the mills. The distribution of the export trade is indicated in the appended table.

Exports of cotton to principal countries in thousands of cwts. (3½ cwts. equal one bale.)

			1911-12	1912-13	1913-14.
			Cwts.	Cwts.	Cwts.
Japan			3,515	8,591	4,834
Germany	••		891	950	1,685
Belgium	••		774	864	1,089
Italy			680	583	828
Austria-Ru	ngary		472	396	747
France			292	328	510
United Kir	gdom	٠.	418	805	388
China			90	196	194
Spain			128	87	165

From this it will be seen that the United Kingdom is a very small purchaser of Indian cotton. The higher counts of yarn now chiefly spun in Lancashire cannot be produced from Indian cotton, and the United Kingdom takes her supplies from the United States and Egypt. Japan is the principal consumer. Formerly Japan bought Indian yarn largely, but her own textile industry has expanded so rapidly that she is now not only independent of the Indian yarn supply, but is a strong and successful competitor for the Chinese trade, and even exports small quantities of hosiery to India, where it has secured an entry owing to its cheapness. After Japan the principal buyer is the Continent, where the short staple Indian cotton finds a ready sale owing to its cheapness.

Bombay is the great centre of the cotton trade. The principal varieties are Dholleras, Broach, Comras (from the Berars), Dharwar and Coomptas. Broach is the best cotton grown in Western India. Hinganghat cotton, from the central Provinces, has a good reputation. Bengals is the name given to the cotton of the Gangetic valley, and generally to the cottons of Northern India. The Madras cottons are known as Westerns, Coconadas, Coimbatores and Timevellys. The best of these is Timevelly. Camboda cotton has been grown with success in Southern India, but it shows a tendency to revert. The high prices of cotton realised of recent years have given a great impetus to cultivation. Government have also been active in improving the class of cotton produced, by seed selection, hybridization and the importation of exotic cottons. Although these measures have met with a considerable measure of success, they have not proceeded far enough to leaven the whole outturn, which still consists for the most

part of a short-staple early maturing variety, loom and their development in England convert-suitable to soils where the rainy season is brief. ed India from an exporting into an importing Reference has been made to the popularity country, and made her dependent on the United of the Indian handloom cloths in the earliest Kingdom for the bulk of her piece-goods. The days of which we have record. This trade first attempt to establish a cotton mill in India

ed India from an exporting into an importing country, and made her dependent on the United days of which we have record. This trade first attempt to establish a cotton mill india grew so large that it excited alarm in England, was in 1838, but the foundations of the industry and it was killed by a series of enactments, were really laid by the opening of the first mill commencing in 1701, prohibiting the use or in Bombay in 1856. Thereafter, with occasale of Indian calicoes in England. The insignal extra backs from famine, plague and other vention of the spinning jenny and the power causes, its progress was rapid.

The following statement shows the quantity (in pounds) of yarn of all counts spun in all India in the twelve months. April to March, in each of the past three years :-

	•					1911–12.	1912-13.	1913-14.
Bombay Madras Bengal U. P. Punjab C. P. and Native Sta		::	::		::	441,521,380 42,838,086 32,625,497 39,487,426 6,630,835 27,738,443 34,188,532	485,506,927 44,974,138 37,355,113 43,765,289 5,339,339 33,581,772 37,890,324	479,682,975 44,673,626 33,219,947 44,468,505 6,274,754 36,532,870 37,850,354
		,	GRAND	TOTAL		625,030,199	688,472,902	682,703,031

The spinning of yarn is in a large degree centred in Bombay, the mills of that province producing nearly 75 per cent. of the quantity produced in British India. The United Provinces of Agra and Oudh and Madras produced about 7 per cent. each, while Bengal and the Central Provinces produced 5.5 and 4.7 per cent. respectively. Elsewhere the production is as yet very limited.

BOMBAY SPINNERS.

Here is a detailed statement of the quantity (in pounds) and the counts, or numbers, of yarn spun in Bombay island :-

					1911-12.	1912–13.	1913-14.
Nos. 1 to 10 " 11—20 " 21—30 " 31—40 Above 40 Wastes, &c.	::	::		::	81,453,298 170,766,063 70,058,529 4,551,901 705,207 105,900	95,429,461 188,102,363 74,850,464 4,420,751 837,260 40,701	89,351,981 186,216,653 74,751,191 3,830,073 822,287 51,911
		"	TOTAL		327,640,898	363,681,000	355,024,696

YARN AT AHMEDABAD.

The corresponding figures for Ahmedahad are as follows:-

				 1911–12.	1912-13.	1913-14.
Nos. 1—10 ,, 11—20 ,, 21—30 ,, 31—40 Above 40 Wastes, &c.	:: :: ::			2,279,985 15,282,525 36,599,568 12,404,849 1,014,041 4,856	2,039,676 15,656,673 37,049,666 11,687,071 1,375,446 1,662	1,503,504 14,912,647 39,543,101 11,890,406 958,218 144,958
		T	TAT	 67,585,824	67,810,194	68,952,787

YARN SPUN THROUGHOUT INDIA.

The grand totals of the quantities in various counts of yarn spun in the whole of India; including Native States, are given in the following table:—

		 	1911-12.	1912-13.	1913-14.
Nos. 1—10 " 11—20 " 21—30 " 31—40 Above 40 Wastes, &c.	::	 TOTAL	 116,179,494 338,380,790 149,332,247 20,280,954 2,199,468 704,246 625,030,199	137,002,274 369,393,282 158,836,811 19,641,700 2,937,880 660,955 688,472,902	130,762,148 361,882,814 166,968,487 19,712,298 2,698,686 678,598 682,703,031

In the early days of the textile industry the energies of the millowners were largely concentrated on the production of yarn, both for the China market, and for the handlooms of India. The increasing competition of Japan in the China market, the growth of an indigenous industry in China and the uncertainties introduced by the fluctuations in the China exchanges consequent on variations in the price of silver compelled the millowners to cultivate the Home market. The general tendency of recent years has been to spin higher counts of yarn, importing American cotton for this purpose to supplement the Indian supply, to erect more looms, and to produce more dyed and bleached goods. This practice has reached a higher development in Bombay than in other parts of India, and the Bombay Presidency produces parts of produce the clath in other parts of India, and the Bombay Presidency produces nearly 87 per cent. of the cloth woven in India. The United Provinces produces 8.8 per cent, the Central Provinces 5 per cent. and Madras about 3 per cent. Grey (unbleached) goods still represent nearly 77 per cent. of the whole production, but dyeing and bleaching are making rapid progress.

ANALYSIS OF WOVEN GOODS.

The following brief extract is taken from the statement of the quantity (in pounds and their equivalent in yards) and description of woven goods produced in all India, including Native States :-

· · · · · · · · · · · · · · · · · · ·					1911–12.	1912–13.	1913–14.
Grey and Bleache	d piec	e-good	8 	j	Ì	1	
Pounds	••	•	••		204,901,143	211,111,391	202,763,449
Yards	١		••	1	883,380,610	914,191,236	872,445,720
Coloured piece-go	ods			- '' 1	000,000,010	814,191,230	0/2,440,120
Pounds				- 1	E0 554 000		
Yards	•	••	••	••• [59,554,232	71,828,052	68,829,264
Grey and coloure	d good	is other	r than 1	piece-	252,770,980	806,251,309	291,845,868
Pounds				1	7 000 707		
Yards	••		••	••	1,606,191	1,812,894	2,166,496
Hosiery-	• • •	••	• •	••• (416,702	415,133	637,640
Pounds				1	i	- 1	-
Dozens	••	••	••	••	497,006	500,997	471,349
Miscellaneous-	••	• •	• •	••	273,478	284,799	267,41
Pounds					,	202,100	201,22
Total—	••	••	••	••	85,684	217,668	157,999
Pounds				i			
Yards	::	••	••	•••	266,644,256	285,491,002	274,388,550
Dozens	••	••	• •	•• \	1,136,151,590	1,220,442,545	1,164,291,588
202018	•	••	••	• • •	690,180	699,932	905,05

BOMBAY WOVEN GOODS.

The output of woven goods during the three years in the Bombay Presidency was as follows. The output of the represents the weight of all woven goods; the measure in yards represents the equivalent of the weight of the grey and coloured piece-goods.)

		_				1911–12.	1912–13.	1918-14.
Pounds Yards Dozens	::	::	::	••	::	219,437,846 950,404,102 543,108	230,203,530 1,001,664,978 485,076	
					J		200,010	701,305

The grand totals for all India are as follow:-

			_			1911–12.	1912–13.	1918–14.
Pounds Yards Dozens	::	::	::	::	::	266,644,256 1,136,151,590 690,180	285,471,002 1,220,442,545 699,932	274,388,550 1,164,291,588 905,051

TRADE OF THE YEAR.

Cotton manufactures represent 22 per cent. I Cotton manufactures represent 22 per cent. of the total value of Indian manufactures exported and nearly 5 per cent. of the whole export trade. The position of the cloth and yarn market during the year was not satisfactory. Towards the close of the year 150,000 bales of cloth were reported to be in stock, and the monthly production about 43,000 bales, rechoning 350 lbs. per bale. Of yarn 160,000 bales were in stock in the Far Eastern markets, out of which \$8,000 bales remeined unsaid. Within of which 85,000 bales remained unsold. Within the twelve months there was a fall of over 1 anna 3 pies per lb. In yarn and 1 anna 9 pies per lb. in cloth at Bombay. There have been of late over production and heavy imports. It is the belief in the trade that the loss of credit and monetary difficulties, brought about by the Swadeshi Bank failures in Bombay and in the North of India, were not so much the real cause of depression as the glut in the piece-goods market. For the town and island of Bombay the profits for the year 1913 came to Rs. 182 lakhs, including Rs. 29 lakhs for the agents' commission. The wages amounted to Rs. 2,47 lakhs as against Rs. 2,68 lakhs in 1912. The profits of the weaving mills, excluding comthe twelve months there was a fall of over 1 anna lakhs as against Ms. 2,68 lakhs in 1912. The profits of the weaving mills, excluding commission, came to 21 per cent. out of which 10 per cent. was paid in dividends, as against 28 and 11½ per cent. respectively earned in 1912: while the spinning mills earned about 1912: while the spinning mills earned about 11 per cent. on capital, out of which 6 per cent. was paid in dividends last year, as compared with 22 and 5½ per cent. respectively paid in the previous year. There were some labour troubles. Thus the year was not so prosperous as the previous one.

Production.-It will be of interest to note here that the number of operaterest to note here that the number of opera-tives employed in Bombay each year per 1,000 spindles has fluctuated in recent years. The year most trying for the milis was 1911, when there was a drop from 29 to 28 for every 1,000 spindles, but it recovered to 29 in 1912 and to 31½ in 1913. As regards the production of lower counts Nos. 1-25 of yarn, India is still holding her own as will be seen from the figures of imported yarn and Indian yarn in thousands of ibs.

OLLOUSKILL	O OT IY	<i>,</i> ,,					
			Imp	orted.	Produced.		
			Lbs.	per	Lbs.	per	
				cent.		cent.	
1904-05			2,524	8	531,445	92	
1913-14			2,150	5	616,617	90	
	_		•				

262 million lbs. The production in Indian weaving mills consists chiefly of grey and bleached shirtlings (66 million lbs.) dhutles (59 million lbs.), Toloths, domestics and shirt-ings (30 million lbs.), and chadars (24 million lbs.) The continued increase in production was arrested last year and the output amounted to 274 millions lbs., showing a decline of nearly 4 per cent. The yardage of grey and bleached piece-goods receded by 42 millions yards to 872 million yards, or, taking the weight, by 8½ million ibs. to 203 million ibs. which latter figure is 74 per cent. of the total production of all woven goods.

Export Trade.—The figures of the export trade are given below in nillions of ibs. and in lakhs of rupees, indicating the recent expansion of the trade.

	•	 Y	Woven goods.	
		Lbs.	Rs.	No.
190910		 227	971	221
1910-11		 183	862	239
1911-12	••	 151	759	219
1912~13		 204	992	228
1913-14	••	 188	983	229

The trade in cotton twist and yarn was bad The trade in cotton twist and yarn was ball ast year and the demand from most consuming countries was poor. The exports declined by 3 per cent. due to smaller shipment to China and its Treaty Ports, which took 178 million lbs. and Rs. 8,77 lakhs or 90 per cent. of the total. Shanghai and Japanese mills are competing briskly with Indian mills on the China theretare. China increased her taking from market. China increased her taking from Japan by 34 million lbs. in 1913. The United Kingdom shipped 4.5 million lbs. to the Further

detailed figures in thousands are shown below-1913-14. 1912-13.

Yds. Yds. Rs. Rs. 71,08 Grey goods White 44,091 73,29 43,717 1,79 346 1,68 479 Coloured ... 42,076 1,34,89 45,038 1.40,82

2,13,69 TOTAL .. 86,513 2,09,86 89,234 The increase in value was by nearly Rs. 4 lakhs to Rs. 2,13½ lakhs, grey goods representing 33 per cent. of the total value, and in that branch the trade declined by 374,000 yards and Rs. 2½ lakhs to 44 million yards and Rs. 71 lakhs. The shipments to China declined from 935 yards and Rs. 1,28 lakhs to 740,300 yards and Rs. 1.14 lakhs. The principal at Rs. 5 foreign markets for Indian cloth are East 1912-13.

Piece-goods.—As regards piece-goods the diffica (17 million yards), Asiatic Turkey (10 tailed figures in thousands are shown below—million yards) and Aden (5 million yards). 1912-13. 1913-14. Coloured goods advanced by 3 million yards and Rs. 6 lakhs to 45 million yards and Rs. 141 lakhs. They are sent mainly from Madras 141 larks. They are sent mainly inon mataria and Bombay to the Straits (17 million yards), Ceylon (nearly 9 million yards), and Persia (nearly 4 million yards). Shipments to Ceylon decreased as there was larger stock in hand while those to the Straits advanced. The trade in handkerchiefs made by handlooms in the north of the Madras Presidency declined from Rs. 11 lakhs to Rs. 8 lakhs, due to the colours used being inferior to those used in English-made goods, which are also cheaper. Exports to the United Kingdom were valued at Rs. 8 lakhs as against Rs. 101 lakhs in

Progress of the Mill Industry.

The following statement shows the progress of the Mill Industry in the whole of India.

Year ending 30th June.		Number of	Number of	Number of	Average No. of Hands	Approximate Quantity of Cotton Consumed.			
	шишк	30011 3		Mills	Spindles.	Looms.	Looms. Employed Daily.		Bales of 392 lbs.
1897 1898	::	::	::	173 185	4,065,618 4,259,720	37,584 38,013	144,335 148,964	4,553,276 5,184,648	1,300,936 1,481,328
1899			::	188	4,728,333	39,069	162,108	5,863,165	1,675,190
1900 1901	::	::	::	193 193	4,945,783 5,006,936	40,124 41,180	161,189 172,883	5,086,732 4,731,090	1,453,352 1,351,740
1902	••	••	••	192	5,006,965	42,584	181,031	6,177,633	1,765,038
1903 1904	••	••	••	192	5,043,297	44,092	181,399	6,087,690	1,739,340
1905	••	• •	•••	191 197	5,118,121 5,163,486	45,337 50,139	184,779 195,277	6,106,681	1,744,766 1,879,244
1906 1907	••	••	••	217.	5,279,595	52,668	208,616	7,082,306	2,023,516
1908	::	::	• • • • • • • • • • • • • • • • • • • •	224 241	5,333,275 5,756,020	58,436 67,920	205,696 221,195	6,930,595 6,970,250	1,980,170 1,991,500
1909				259	6,053,231	76,898	236,924	7,381,500	2,109,000
1910	• •	••	••	263	6,195,671	82,725	233,624	6,772,535	1,935,010
1911 1912	••	••	• •	263	6,357,460	85,352	230,649	6,670,531	1,905,866
1913	::	::	••	268 272	6,463,929 6,596,862	88,951 94,136	243.637	7,175,357 7,336,056	2,050,102 3,096,016

Comparative Figures.

In Great Britain, the United States of America and in India, there are 2,011 mills, 1,449 mills and 272 mills respectively. The number of spindles in each country is as follows:—5.93 erores, 3.22 crores and 66 lakhs for India; looms 8.05 lakhs, 6.96 lakhs, and 94,000 for India; the number of hands employed, 6.27 lakhs for Great Britain, 3.18 lakhs for America and 2.53 lakhs for India; cotton consumed in bales, 42.84 lakhs, 59 lakhs and 21 lakhs Indian bales, which bates for inona. It tuese anomal bates, which are 392 lbs. per bale are reduced to American bales, which are 500 lbs. bales, the number of bales consumed in India would be about 20 per cent. less. The wages earned by the workmen of each country are as follows:—England 48.90 crores per annum, America 33.40 crores, India 6.53 crores. Out of her total production England retains 20 per cent. for home consumption, America 94 per cent., and India 79 per cent.

Wages.

The following comparison of wages has been prepared by a Mill Proprietor. "Wages come to 2.68 cores for Bombay, which employs 1.10 lakh workers. The Bombay Mills employ a very expensive staff of managers and overseers. To them and all other office and clerical staffs, 26 lakhs were given; so if this sum is deducted the workers, wonce got 2, 42 sum is deducted the workman proper got 2.42 crores, or Rs. 220 per annum per head. The English workman gets Rs. 780 per annum and the American workman gets Rs. 1,050 per annum. If the same test of profits and wages to the whole of India is applied, then for 1912 the industry the industry as a whole earned 6.34 crores and wages to workmen proper would come to 5.90 crores and to the staff 63 lakhs, or a total of 6.53 crores to be divided amongst 2.48 lakh hands which are employed in India. average rate of wages at this figure would work out at Rs. 269 per annum." Statement of the amount in rupees of Excise duty realised from goods woven in the Cotton Mills in British India; under the Cotton Duties Act, II of 1896; also the amount of equivalent duty levied in the Native States; in each year from 1895-96 to 1912-13.

-	-			Bom bay	Madras.	Bengal.	United Provinces of Agra and Oudh (also Ajmer- Merwara).	Punjab.	Central Provinces and Berar (a)
1895-96 (b)	.,			196	496	69	4,259	615	•
1896-97	• •		• •	9,14,480		4,480			
1897-98		• •	• •	9,60,600	66,470	1,180	44,350	14,460	
1898-99	• •		• •	11,26,390	89,130	900	61,000	12,730	
1899-1900	••	• •	••	10,95,236	88,678	2,523	54,818	10,448	88,109
1900-01		• •		10,28,542	41,827	5,038	50.116	5,808	84,978
1901-02		••		15,26,103	54,139	5,863	69,284	4,379	1,10,140
1902-03		• •		15,84,121	67,813	6,605	74,023	8,031	1,30,620
1903-04		• •		17,64,527	62,350	10,908	89,189	1,104	1,56,371
1904-05	• •	••	•••	20,43,832	65,379	11,929	96,710	2,607	1,61,308
1905-06	• •			22,78,425	1,10,943	11,165	1,32,364	5,144	1,68,743
1906-07				24,36,265	1,32,693	23,709	1,35,884	7,464	1,64,680
1907-08				28,82,296	1,35,131	31,556	1.66.044	8,746	1,75,944
1008-09	• •	• •		29,51,859	1,42,295	53,351	1,88,345	9,509	1,98,419
1909-10				33,88,658	1,45,333	55,822	1,92,552	6,611	2,17,217
1910-11				36,78,555	1,48,136	56,359	1,82,083	7,300	2,07,818
1911-12	••	•••		42,17,878	1,65,048	48,631	1.84,653	10,862	2,52,415
1912-13	••	••	••	48,27,698	2,06,862	81,709	2,11,847	17,971	2,71,882
1913-14		••	•-	45,68,187	2,13,166	78,946	2,55,468	22,530	8,00,919

•				Total British India.		Native States.	Grand	Total.
				Gross duty.	Net duty.	Gross duty.	Gross duty,	Net duty.
1895–96 (b)				5,635	5,635	244	5,879	5,879
1896-97				11,23,440	10,91,590	18.459	11,41,899	
1897-98				11,66,329	11,38,950	47,835	12,14,164	11,86,785
1898-99		••	• •	13,75,119	13,53,120	52,186	14,27,305	
1899-1900	• •	••	••	13,39,812	13,09,514	40,937	13,80,749	13,50,451
1900-01				12,16,307	11,62,947	48,449	12,64,756	12,11,396
1901-02	••	• • •		17,69,908	17,16,836	61,171	18,31,079	17,77,965
1902-03		• • •		18,66,213	18,25,469	65,541	19,31,754	18,91,010
1908-04		• • •		20,77,449	20,36,104	59,061	21,36,510	20,95,149
1904-05		• • •	• •	23,81,825	23,33,636	67,320	24,49,145	24,06,976
1905-06				27,06,784	26,71,061	83,455	27,90,239	27,54,516
1906-07	::			29,00,957	28,64,202	81,976	29,82,671	29,46,152
907-08	• • • • • • • • • • • • • • • • • • • •			33,99,717	33,55,946	97,499.	34,97,216	34,53,443
1908-09				35,43,778	34,98,480	1.14,498	36,58,276	36,12,977
1909-10	::	::	•	40,06,193	39,61,020	1,37,699	41,43,892	40,98,719
1910–11				42,26,575	1.75,878	1,75,878	44,56,129	44,01,707
911-12	::	• • • • • • • • • • • • • • • • • • • •		48,79,478	48,04,492	1,82,479	50,61,957	49,86,971
912-13	::	• • • • • • • • • • • • • • • • • • • •		56,17,969	55,76,567	2,21,178	58,39,147	57,97,745
913-14	::	• • • • • • • • • • • • • • • • • • • •		54.39,216	53,95,192	2,38,393	56,77,609	56,38,585

⁽a) From the 1st October 1902 from which date the province was leased in perpetuity to the British Government.
(b) For February and March 1896.

COTTON FIRES IN BOMBAY.

The Bombay Cotton Green has been situated at Colaba since 1844 and occupies an area of about 1½ miles square. On it each dealer rents a plot which is known as his jatha. The cotton season opens at the Divall, in October or November, when the dealers bring to their jathas the balance of the previous crop which has been stored throughout the monsoon, and from that date until the monsoon breaks in the following June the Cotton Green is crowded with bales and is the scene of great activity. It has long been recognised that the Green is inconvenient both in regard to its situation and its limited size and arrangements for its transfer have been made.

In recent years there have been several fires on the Green, culminating in a long series in 1914 when the damage done by fire surpassed all records. It is estimated that 150,000 bales valued at Rs. 1,65,00,000, were in 1914 affected by fire. Allowing for 75,000 damaged bales (valued at Rs. 82,00,000) which were sold by Insurance Companies, the loss works out as follows: 75,000 bales, totally burnt or rendered useless for spinning purposes, valued at Rs. 83,00,000.

But the number of fires in the different years varies greatly. In 1904 there was only one, and the same in 1905, but in 1906 the number was thirty-eight; coming to more recent years we find one in 1911, three in 1912, thirteen in 1913, and forty-three in 1914. The fires are generally confined to a particular area of the Green, where, though the public is not excluded, there is a regular system of watchmen.

Committee of Enquiry.—The disastrous fires of 1914 led to the appointment by the Government of Bombay of a Committee "to inquire into the causes of the outbreaks of fire on the Cotton Green and to consider and recommend what preventive and protective measures should be adopted to guard against such outbreaks in future."

A Government Resolution, published in November, summarises the suggestions of that Committee as follows:—

- (i) The removal of the Cotton Green from Colaba to some more spacious, better arranged, better drained and more remote site.
- (ii) The restriction of the height of cotton stacks, with proper alleys, lanes or roads between the various stacks and jathas.
- (iii) The storage of cotton in godowns which are properly built.
- (iv) The organization and maintenance by the cotton merchants and Insurance Companies jointly of a better staff for guarding the Green.
- (v) The provision of an adequate number of hydrants and full pressure of water throughout the 24 hours.

- (vi) Efforts by Insurance Companies to safeguard as closely as possible their own interests after a fire has occurred.
- (vii) The institution of a tribunal or court of enquiry of the nature referred to in the preceding paragraph.

Fraudulent Incendiarism.—Government accepted the committee's conclusion that the fires of 1914 were due to wilful and fraudulent incendiarism, the motive for which Is to be found in the exceptional conditions which characterized the cotton market during that season. In the absence of a definite clue, the Committee found itself unable to determine upon which of the several classes which stood to benefit by the destruction of large stocks of cotton the culpability for these confiagrations lay.

The Resolution also stated that, pending the completion of the Sewri Reclamation, the Port Trust are making arrangements, at a cost of approximately, three lakhs, to lay out a suitable storage ground near the reclamation. This, in conjunction with the existing Cotton Green, will admit of even a large crop being stored in conditions which will not reproduce the dangerous features which characterized the storing of last year's crop. The insurance companies have already taken action, by the imposition of almost prohibitive rates where these precautions are not observed, to compet the restriction of the height of stacks of bales and the provision of a liberal allowance of free space between adjoining stacks. The provision of the additional storage area referred to above will facilitate the adoption of these very necessary safeguards.

Artificial Damping.—The attention of the International Cotton Committee, under the presidency of Sir Charles Macara, was in June drawn to the subject of the cotton fires. The two representatives of India on the Committee, suggested the possibility that the artificial damping of the cotton might be a contributory cause to the outbreaks. The point was made that the International Federation during the ten years of their existence have wasged strenuous warfare against the artificial damping of cotton and have heard from Lord Crewe, the Secretary of State for India, that the practice was one which was fraduulent and should be met by penal legislation. A strong opinion was expressed in favour of the Government of India passing an Act in accordance with the terms of Lord Grewe's speech. M Berger, the representative of France stated that since the perfecting of the system of testing cotton for damp on its arrival at the port of Harve the sellers of a consignment of cotton which contained more than 34 per cent. of moisture were compelled by the French law courts to make good the excess of moisture to the firm to whom the cotton was consigned, this case being the first of the kind on record.

The Jute Industry.

industry of Bengal is of very recent origin. The first jute nill in Bengal was started at Rishra in 1855, and the first power-loom was introduced in 1859. The original outturn was 8 tons per day. In 1909 it had grown to 2,500 tons per day, it is now 2,400 tons per day (working short time), and it shows every indi-cation of growing and expanding year by year. Another interesting thing about the juto in-dustry of Bengal is that, although it is practidustry or Bengal is that, athough it is practi-cally a monopoly of Scotsmen from Dundee, the industry itself owes its inception to an Englishman. The founder of the industry was George Acland, an Englishman, who began life as a midshipman in the navy, and was for some years in the East India Marine Service. He quitted this service while still a young man, and engaged in commercial pursuits man, and engaged in commercial pursuits in Ceylon, where he was successful. Later on he turned his attention to Bengal, and arriving in Calcutta about 1853 he got into touch with the management of the paper works, then at Serampore, where experiments were being tried with country grasses and fibre plants to improve the quality or cheapen the manufacture of paper. This seems to have suggested to Acland the manufacture of rhea, and in 1854 he proceeded to England, with a view to obtaining machinery and capital in and in 1634 he proceeded to England, what a view to obtaining machinery and capital in order to manufacture goods from that material. During this trip he visited Dundee, and while there Mr. John Kerr, of Douglas Foundry, suggested to him the importing of machinery into Bengal "where the jute tomes from and suggested to him the importing of machinery into Bengal "where the jute comes from and spin it there." This suggestion bore fruit, for shortly afterwards Acland placed orders with Kerr for a few systems of preparing and spinning machinery, and returned to India the same year accompanied by his two sons and a few Dundee mechanics who were to assist him in conditions. sist him in creeting and operating the first jute mill in Bencal. This, as has been stated, was at Rishre, the site of the present Welling-ton mills, near Scrampore, and here, in 1855, the first machine spun jute yarns were made. As not infrequently happens the pioneer got very little out of his venture. After several ups and downs the Acland interest in the Rishra mill ceased in 1867, and the company which Acland had formed in 1854 was wound up in 1868.

up in 1868.

Power-looms.—The pioneer's example was followed by Mr. George Henderson of that ilk and firm, and in 1859 the Borneo Jute Co. was launched under his auspices. To this company is due the credit of introducing the power-loom for jute cloth. Unhampered by the financial difficulties which had burdened the Aclands, the Borneo Jute Co. made rapid progress, doubling their works in 1864, and clearing their capital twice over. In 1872 the mills were turned into a limited liability company, the present "Barnagore Jute Manufacturing Co., Ld.", which is credited at the present moment with making a monthly profit of three lakts. Four other mills followed in succession—Gouripore, Serajgunge, and India Jute Mills. India Jute Mills.

Considering its present dimensions, the jute dustry of Bengal is of very recent origin. The first jute mill in Bengal was started at isolate in 1855, and the first power-loom was troduced in 1859. The original outturn as 8 tons per day. In 1909 it had grown to 500 tons per day, it is now 2,400 tons per day oranging and averaging and ave from the Borneo Company, and shares touched 68 per cent. premium. The dividend for the first year, ending August 1873, was 25 per cent., for 1874, 20 per cent., and for 1875 10 per cent. Then came a change. The investing public had forgotten the effect of the Port Canning bubble, and the condition of the jute industry in 1872-73 seeming to offer a better return than coal or tea, both of which had just enjoyed a boom, it was only necessary to issue a prospectus of a jute mill to have all the shares snapped up in the course of an after-

> In 1872-73 three new companies were floated locally-the Fort Gloster, Budge Budge and Sibpore, and two Home companies, the Champdany and Samnugger, all of which commenced. operations in 1874. In 1874-5 eight other mills were launched—the Howrah, Oriental. (New Union), Asiatic (now Soorah), Cilve, Bengal Pressing and Manufacturing Co. (now the Belliaghatta-Burnagore branch mill), Rustomjee (now the Central), Ganges (regis-Rustomjee (now the Central), Ganges (regis-tered in England), and Hastings, owned by Messrs. Birkmyre Bros., of Greenock fame— in all thirteen new companies, coming on all of a heap and swelling the total looms from 1,250 up to 3,500. This was too much of a strain for the new industry, and for the next ten years all the mills had a severe struggle. The older ones all survived the ordeal, but four of the new concerns—the Oriental, the Asiatic, the Bengal Pressing and Manufac-Asiatic, the Bengal Pressing and Manufac-turing Co. and the Rustomjee-became moribund, to appear again later on under new names and management. Fort Gloster also suffered badly.

Between 1875 and 1882 only one new mill Between 1870 and 1882 only one new mil-was put up. This was Kamarhatty, promoted by Messrs. Jardine, Skinner & Co., which came into being in 1877, as the result of Dr. Barry's visit to Calcutta in 1876, when he transferred the agency of the Gouripore Co. from Messrs. Jardine, Skinner & Co. to his own firm. This mill, together with additions made by some of the other mills, brought the total looms up to 5,150 in 1882. By the end of 1885 the total was further augmented by the Hooghly, total was further augmented by the Hoognity, Titaghur, Victoria and Kanknarrah mills, bringing the number of looms at work up to 8,700. From this period on to 1894 no new mills came into existence except the Calcuta Twist Mill, with 2,460 splndles, since mergad into the Wellington branch of the Champdany Co. Between 1896 and 1900 the following new mills were started:—the Gordon Twist Mill with 1,800 spindles (now the Fort Gloster Branch with 1,800 spindles (now the Fore Gloster Branch
mill), Khardah, Gondolpara (French owned),
Alliance, Arathoon, Anglo-India, Standard,
National, Delta (which abcorbed the Serajgunge), and the Kinnison. A luli of four years
witnessed large extensions to the existing mills. "From 1868 to 1873," writes Mr. David gunge), and the Rinnison. A full of four years walkee in "The Romance of Jute." "the witnessed large extensions to the existing mills inversells excepting the Rishra mill simply atter which came the following series of new

Progress of the Industry.

mills, besides further heavy extensions—Dal-housie, Alexandria, Naibati, Lawrence, Re-liance, Belvedere, Auckland, Kelvin and North-brook.

ages from the earliest year for which complete information is available with actuals for the last brook. four years; and the figures in brackets represent the variations for each period, taking the average of the quinquennium from 1879-80 to 1883-84 as 100. It will be seen that the number of looms and spindles in operation has increased THE record of the jute industry may well be said to be one of uninterrupted progress. The number of mills at work or the amount of following statement shews quinquennial aver- nominal capital employed:

		Nu	mber of	No	minal	1	Numbe	r (in tl	ousands	s) of	
		m	ills at work.	Cap	Capital (in lakhs of Rs.) Perons employed.			Loo	ms.	Spin	dles.
1879-80 to 1883-84		21	(100)	270	7 (100)	38.8	(100)	5	5 (100)	88	(100)
1884-85 to 1888-89		24	(114)	341	3 (126)	52.7	(136)	7	(127)	138	4 (157)
1889-90 to 1893-94		26	(124)	402	8 (149)	64.3	(166)	8	3 (151)	172	B (196)
1894-95 to 1898-99		31	(148)	522 -:	1 (193)	86 - 7	(223)	11	7 (213)	244 1	3 (278)
1899-1900 to 1903-04		36	(171)	680	(251)	114.2	(294)	16	2 (295)	334.	B (380)
1904-05 to 1908-09		46	(219)	960	(355)	165	(425)	24	8 (451)	510 -	5 (580)
1909-10	٠.	60	(286)	1,151	(425)	204 · 1	(526)	31 ·	4 (571)	645 • 9	(734)
1910-11		58	(276)	1,150	(425)	216 • 4	(558)	. 33	1 (602)	682 - 8	(776)
1911-12		59	(281)	1,193	(441)	201 · 3	(519)	32	9 (598)	677 - 5	(770)
1912-13		61	(290)	1,196	5 (442)	204	(525)	34	(618)	708 - 7	(805)

The production of the mile has increased to a still greater extent. The following figures show the export of jute manufactures and the declared values for the quinquennial periods. The combined value of gunny bags and gunny cloth exported by sea in 1912-13 is over eighteen times as great as the average value of the exports in the period 1879-80 to 1883-84:—

					Jute	manufa	ctures.			
		_			Gunny l million numi	ons of millions of		Value in lakhs of Rs.		
1879-80 to					54.9	(100)	4.4	(100)	124.9	(100)
1884-85 to	1888-89	••	••		77	(140)	15.4	(350)	162.9	(130)
1889-90 to		••	••		111.5	(203)	41	(992)	289.3	(232)
1894-95 to	1898-99	••	••		171 · 2	(312)	182	(4,136)	518	(415)
1899-1900	to 1903-0	4	• •		206.5	(376)	427 · 2	(9,709)	826.5	(662)
1904-05 to	1908-09				257.8	(469)	698	(15,864)	1,442.7	(1,154)
1909-10	٠	• •	••		364 · 4	(664)	940-1	(21,366)	1,709.6	(1,369)
1910-11	••				360.9	(657)	955.3	(21,711)	1,699 • 4	(1,361)
1911-12	••				289.9	(528)	871.5	(19,807)	1,600 4	(1,282)
1912-13	···	••	-••	$\cdot \cdot $	311.7	(568)	1,021 · 8	(23,223)	2,287 · 1	(1,831)

Up to the last quinquennium the exports of raw jute were marked by increases from year to year though the improvement was not so rapid as in the case of manufactures. A slight decrease in the exports occurred in 1909-10 as compared with the figures for the preceding quinquennial period and a further decline in 1910-11, but a marked recovery was made in 1911-12 which was accentuated in 1912-13:—

Jute, raw, in

1879-80 to 1	883-84		• •	7.5	(100)
1894-85 to 18	388-89			8.9	(119)
1889-90 to 18	893-94			10	(133)
1894-95 to 18	898-99		••	12.3	(164)
1899-1900 to	1903-0	4		12.7	(169)
1904-05 to 19	008-09			15.09	(201)
1909-10				14.6	(195)
1910-11				12.7	(169)
1911-12			••	16.2	(216)
1912-13				17.5	(233)
The main		8-		had the I	400 400

The price of raw jute reached its highest point in 1906-07, the rate being Rs. 65 per bale; in 1907-08 it dropped to Rs. 42 per bale, and the fall was accentuated in 1908-09 and 1909-10, the price having declined to 36.4 and Rs. 31 per bale respectively. In 1910-11 the price rose again to Rs. 41-80, to Rs. 51-4-0 in 1911-12 and further to Rs. 54-12-0 in 1912-13. The following are the quinquennial average prices per bale (400 pounds) of ordinary jute calculated from the prices current published by the Bengal Chamber of Commerce:—

Price of jute, ordinary, per bale of 400 lbs.

heen as fo	erage pri	ices (of gui	any	cl	oth	have
1912-13	••				12	0	
1911-12	••	••		51	4	0	(218)
1910-11				41	8	0	(177)
1909-10	••			31	0	0	(132)
1904-05 to	1908-09			44	13	6	(191)
1899-1900	to 1903-0	14		32	1	7	(137)
1894-95 to	1808-99			30	12	0	(131)
1889-90 to	1893-94	••		32	6	5	(138)
1884-85 to	1888-89			23	3	2	(99)
1879-80 to	1883-84			23	. s. 8	р. 0	(100)
				-			

Price of Hessian cloth 10\frac{1}{2}oz. 40" per 100 yds.

•			Rs.	. a.	p.	
1879-80 to 18	383-84	٠	 10	7	11	(100)
1884-85 to 18	388-89		 8	0	7	(77)
1889-90 to 18	393-94		 10	6	6	(99)
1894-95 to 18	398-99		 9	11	8	(93)
1899-1900 to	1903-0	4	 10	2	10	(97)
1904-05 to 19	908-09	• •	 11	14	1	(112)
1909-10			 9	8	в	(88)
1910-11			 9	5	в	(89)
1911-12	••		 11	14	0	(113)
1912-13	••		 16	6	0	(156)

The Jute Mills Association now one of the most important, if not the most important, of the bodies affiliated to the Bengal Chamber of Commerce, was started under the following circumstances:—In 1886 the existing mills, finding that, in spite of the constant opening up of new markets, working results were not favourable, came to an agreement, with the late S. E. J. Clarke, Secretary to the Chamber of Commerce, as trustee, to work short time. The only mills which stood out of this arrangement were the Hooghly and Serajgunge. The first agreement, for six months dating from 16th February 1886, was subsequently renewed at intervals without a break for five years up to February 1886, was subsequently renewed at intervals without a break for five years up to February 15, 1591. The state of the market at the time of the renewals dictated the extent of the short time, which varied throughout the five years between 4 days a week, 9 days a fortnight and 5 days a week. Besides short time, 10 per cent. of the sacking looms were shut down for a short period in 1890. An important feature of this agreement was a mutual undertaking by the parties not to increase their spinning power during the currency of the agreement, only a few exceptions being made in the case

In 1890, with a view to further improving the situation, the associated mills entered into a compact to fix a scale of minimum selling rates for fabrics used in the country trade, rates for markets west of Suez to be left open. This artificial attempt to improve the mill sale-sheets lasted for about 18 months, and had a disastrous effect on mutual confidence among the mills. All sorts of ruses to get round the minimum scale were adopted, and recrimination became the order of the day. Certain of the more favoured mills encouraged a sort of double barrelled business by which they were able to dispose of country goods at the fixed rates in consideration of selling a quantity of foreign goods at buyers' prices. This, combined with other devices adopted by certain mills, had the effect ultimately of breaking up all combination among the mills. Nor has the jute trade ever been able to work in complete harmony since. Mutual suspicions have rendered it very difficult even to work half time on occasion, and the moment demand shows the slightest sign of catching up supply, nothing on earth will prevent one mill after the other putting in new extensions and thus hastening the moment when supply will overtake demand.

Working days.—With the introduction of the electric light into the milis in 1898, the working day was increased to 15 hours, Saturdays included, which involved an additional amount of cleaning and repairing work on Sundays. In order to minimise this Sunday work and give them a free Sunday, an agitation was got up in 1897 by the Mill European assistants to have the engines stopped at 2 or 3 p. m. on Saturdays. The local Government took the matter up, but their action went no further than applying moral suasion, backed by a somewhat half-hearted threat. The Mill Association held meetings to consider the question and the members were practically agreed as to the utility of early closing

on Saturdays, but, more suo, could not trust themselves to carry it out without legislation. Unfortunately the Government of India refused to sanction the passing of a Resolution by the provincial Government under the Factory Act and the matter was dropped. Several other abortive attempts were made later on to arrive at some agreement relative to short time, but they mostly failed. Only a year or two ago the Jute Mills Association in despair brought out an American business expert. Mr. J. H. Parks, to advise them on the possibility of forming a jute trust with a view to exercising some control over the production and price of jute. Mr. Parks came, and wrote a report which the Association promptly pigeon-holed because the slump was over and the demand was so prodigious that there was no need to worry about the price of jute. Hard times are once more looming ahead, and it is possible that Mr. Parks' scheme may be withdrawn from its resting place and studied with a view to applying it to future exigencies. It is doubtful, however, whether even Mr. Parks can introduce amity of purpose and consistency in action to the jute trade in Bengal.

Effect of the War.—In view of the rumours contained in this note, she prevailing in some parts of the mofussil regard—to all concerned in jute."

ing the effect of the war on the jute industry a notice has been circulated by the District Officers in Bengal giving the export figures for 1912-13 of raw jute, gunny bags and gunny cloth to the different parts of the British Empire and to foreign countries. It is pointed out that Germany and Austria take more than a quarter of the exports of raw jute, but as customers for gunnies, they, and indeed the continent of Europe as a whole, are comparatively insignificant. Secondly, that the best customers are the United Kingdom, the United States, the Argentine, Chill and Australia, which take more than half the raw jute exports and nearly four-fifths of the gunnies. The Notice further says:—"The War should not interfere materially with our trade in gunnies. It will stop the export of 230,000 tons of raw jute to Germany and Austria, and this surplus will be available for the mills in India, the United Kingdom, the United States, and France. The British Admiralty has no apprehensions as to the safety of the trade routes of the Empire, and the British Government has taken special steps to guarantee marine insurance. These facts, together with the other facts and figures contained in this note, should restore confidence to all concerned in tute."

GLASS AND GLASSWARE.

A pamphlet recently issued by the Commercial Intelligence Department shows that the total value of glass and glassware imported into India in the year ending March, 1914, was 51,206,853, the greater part of which came from Austria-Hungary.

Glass manufacture in India consists of two well-defined classes, the indigenous household industry and the modern factory industry. The indigenous household industry, which is represented in all parts of the country, is chiefly concerned with the manufacture in India on the modern factory system has hitherto been an uphill struggle against great difficulties. In Bengal, the Pioneer Glass Manufacturing Company, Limited, of Titagarh, started work in 1890 and the Bengal Glass Company of Sodepur In 1898. They ceased working in 1899 and 1902, respectively. The Madras Glass Works founded in 1999 has ceased work, though it is hoped to restart it. A factory started in Hydernbad also proved a failure and its plant was taken over by the Glass Works at Ambala. The Himalayan Glass Works at Rajpur in the Dehra Dun district closed after three or four years' working in 1908, but was restarted later under new management. Finally, the Upper India Glass Works at Ambala, which was atarted alure. Since 1903, however, it has been much more successful. It established itself firmly in its earlier years by specialising in the manufacture of bangle glass; and in this line it is interesting to record that the bangle glass of Ambala

and Firozabad has succeeded in capturing the market, whereas formerly large quantities of glass used to be imported from Belgium for this purpose. At the present time one or two glass factories only are working in India, and a new factory, the Western India Glass Works, Limited, of Bombay, is about to start work.

Records of the earlier ventures have shown that the failures in some cases were due, in part at least, to preventible causes prominent among which were (1) the lack of sufficient fluid capita' and the consequent inability of the companies to meet their heavy initial expenses, and (2) inexperience and lack of technical knowledge on the part of the promoters. But there are also certain real and special difficulties with glass manufacturers in India have to contend against. The principal difficulties were—(1) The temperature of India in the hot weather. (2) The difficulty of obtaining skilled labour for glass blowing. Both foreign blowers and men from local industries such as Magina have been tried but neither have been entirely satisfactory. (3) There are considerable technical difficulties, such as the supply of a suitable quality of sand and a suitable alkali. With regard to the alkali, local sources, such as the reh of Northern India, have not yet given results adequate for the manufacture of high class glassware. At present imported bicarbonate of soda is mainly used. As this is imported from England there is no reason to anticipate any shortage of the supply. It is also probable that soda compounds will in time be locally manufactured in India.

The Handloom Weavers.

By F. Booth Tucker.

Next to agriculturists the handloom weavers of India rank second in numerical importance among her skilled industrial workers. In round tigures about 11 million souls are dependent on this industry. From a position of pros-perity and even affluence they have suddenly been reduced, through no fault of their own, but by circumstances over which they have no control, and which it was impossible for them to foresee, to a condition of indigence and even to loresee, to a condition of indigence and even starvation. Taking a superficial view of the situation one might be tempted to say that the remedy is in their own hands. Let them forsake their homes and take service in the mills and the problem will be solved. But this would be a short-sighted and unwise policy. There are fundamental objections to it which cannot be overlooked.

What the handloom industry of India calls for is not annihilation, but leadership. invite a noble and ancient industry which has been for many ages one of the main bulwarks of India's prosperity voluntarily to commit
"harakiri" is a height of self-sacrifice of
which even Japanese models would hardly approve. The mill-owners of Lancashire would no doubt benefit greatly—at least for the time no doubt benefit greatly—at least for the time being—if they could persuade the foolish mill-owners of India that in view of Lancashire's superior skill, intelligence, education, capital or other causes, the latter ought promptly to commit suicide, and if they could persuade the Government of India that in bolstering up the industry in its unequal struggle they were embarking in a wasteful and uscless ex-resultive of money and genery and that their penditure of money and energy, and that their proper course would be to tax it out of existence, or at least abandon it to its fate!

Training Schools.

Unfortunately in the case of the voiceless handloom weavers the mill interests have to handloom weavers the mill interests have to a large extent overpersuaded Government that it is useless to help them to sustain the unequal struggle. Nearly every handloom weaving school in India and elsewhere has sooner or later been converted into a training school for mill foremen and managers, aspiring to salaries of from Rs. 50 to Rs. 500. What wonder when it is remembered that the managers of these institutions have been almost without evention themselves trained almost without exception themselves trained in mill schools to mill methods, and have be-come accustomed to look down upon the handloom industry, and to regard it as being foredoomed to extinction.

of presenting personally the handloom weavers' side of the story, and almost without exception they have been too busy, or have not been able to visit the centres suggested, or have paid them a cursory and contemptuous call, while a more or less one-sided report has been presented, which has frequently resulted in Government withholding its much-needed help from this struggling community and further generously subsidising the wealthy mill-schools i

Not that the two interests are necessarily opposed to each other, any more than are the Infantry and Cavairy of an army in the field.
While Indian mills are looking abroad for markets for their yarn, the 11 million skilled weavers at their door are well worthy of their consideration and should form the most va-luable market for their output. Mills that will study the requirements of this home field need not look outside the four corners of India for many a year to come.

What is wanted.

What the handloom weavers of India . need is :-

- 1. Leadership. They are like slieep with-out a sliepherd. The few leaders that have hitherto been supplied them liave too often been wolves in sheep's clothing, who have falled either to understand their needs, or win their confidence.
- 2. The second great need is instruction in improved methods.
- The weaver must also be placed in touch with the markets of the world.
- 4. This will involve a generous expenditure of money by Government in doing for the weaver what he obviously cannot do for himself. But the outcome will abundantly repay the outlay.

Properly led, properly instructed and properly connected with the world's great cloth bazaar, the weaver of India may yet again become India's pride, and the merchants of the world may yet again vie with one another in seeking the products of his age-learned skill.

The task is not nearly so difficult as it seems The masking values, but needs extension and expansion. There are some things which the weaver can, must and will do for himself. There are other things which must be done for him.

Leadership.

Similarly, when Government have appointed experts, or committees, to investigate the question and to report on the advisability and best means of helping the handloom waver, to whom has the duty been entrusted? Almost invariably to mill experts, whose verdict has been a foregone conclusion. They might well have saved themselves the trouble and expense. I have sometimes written to such persons myself and urged them to confer with our own experts, who have been engaged in the exclusive study of the problem for the eastlusive study of the problem for the last 7 or 8 years, or to allow me an opportunity like to say that it is highly dangerous for a

Presidency, or State to allow its policy towards the handloom weaver to be dictated by a young graduate from a mill school. We should not dream of putting the cleverest University Graduate to fill the chair of a Com-University Graduate to fill the chair of a Commissioner or to dictate the policy of Government, because he had gained honours in Political Economy, Science, Languages or other elements of knowledge. And yet in not a few instances the destines of the vast weaving community have been entrusted to the guidance of the merest tyros in this difficult art! What wonder that the ship has soon been wrecked and consequently abandoned, and then the cause regarded as hopeless.

The great majority of these Leaders will have to be selected from the weavers themselves and not from callow unfledged students of the theory of their art.

Suitable Schools Needed.

2. Therefore they must have suitable Schools. I say suitable because many of the schools established for their benefit have been anything but suitable. Frequently it has been necessary to close them for this very reason. The founder of one such brought the Governor of his Presidency to warn the weavers that if they falled to drink at the fountain of textile knowledge which Governor of textile knowledge which Governor. fountain of textile knowledge which Govern-ment had at great expense established for them, it would be his painful duty to stop its unvalued flow. One man could lead them to water, but even a Government could not force the unwilling horse to drink. Soon afterwards the institution was closed, and the weavers of course were blamed for their stupidity.

By a suitable school I mean;

- (1) A school that is under the sympathetic management of a leader who understands the
- weavers' needs and can win their confidence.
 (2) A school in which the teachers can themselves weave and can consequently be looked up to by the weavers.
- (3) A school exclusively for weavers and not for mill-students, nor a combination of the two. A school in which the adult weaver is taken by the hard and taught improved methods. by the nard and taught improved methods. His advice, assistance, suggestions and objections should be encouraged, and he should be given the free opportunity to choose for himself the kind of implements, materials and methods which he himself may prefer, within, and course reasonable limits. He may not be obtained. of course, reasonable limits. He may not be able to read, or write, but when it comes to ques-tions of his own particular art, he will usually exhibit a shrewdness, alertness and commonsense, which should be developed and encouraged.
- (4) Being a family man, the adult weaver must receive such remuneration as he may require for the support of his family, while learning improved methods.
- (5) The school must be in close touch with the world's markets and must teach the weaver the kinds of cloth that it will pay him to make. The weaver is keenly awake to the commercial

system; stuffing too often our children's heads with useless knowledge, but in a weaving school he spells blue ruin to its best interests.

- (6) The weaver ought to be helped by means of loans and time payments to become the owner of the improved implements of which he has been taught the use, should he so desire. He should be allowed to select those which he himself prefers and should be enabled to pay for them by instalments.
- (7) Travelling branches should be established which can go from village to village at regu-lar intervals, explaining methods, inviting criticisms, establishing centres and helping to market the produce of the weavers, and to obtain for them good yarn at reasonable prices.

Marketing of Produce.

3. The marketing of produce is not so difficult as might at first sight appear. Each centre should gradually work up a market of its own, and when one line ceases to yield a reasonable profit, another should be substituted; as the weavers become better organized and trained, the market will gradually run after them.

We have ourselves established in connection with our various weaving schools a trading agency which takes over the whole of their output, and whose business it is to find out what the markets require. It works on a strictly business basis and greatly facilitates the working of our schools.

It is now some eight years since the Salvation Army took up the cause of the handloom weavers of India, and I think that we may claim to have gained a thorough working knowledge of their needs, and to have largely won their confidence.

One of our Officers has invented a loom which has been generally accepted as the best and fastest handloom in existence. What is even fastest handloom in existence. What is even more important, it works so easily that a child can use it. Thus all the members of a weaver's family can work it in turn and bring their output almost to a level with that of a mill. Fast slays for throwing the shuttle can be obtained from Rs. 7, and upwards, and the complete loom from Rs. 35 and upwards.

A fast loom is of no use to a weaver without a warping machine that can turn out long warps. For this we have a very simple device suitable for village use. One warping machine can keep some twenty fast looms supplied with warps. The cost of this machine is only Rs. 35.

The preparation of thread from cotton, wool, or silk has also received our attention, and improved methods have been introduced which are greatly appreciated by the weavers and villagers. Improved spinning and reeling machines can be obtained for Rs 15 and upwards.

The price of the implements has been brought down to the lowest point consistent with good workmanship and materials. The strain upon a fast loom is very severe, and unless it is well side of his undertaking, and will appreciate made it soon goes to pieces. The weavers such assistance. The mer theoretical peda-themselves well understand this and prefer a gogue is bad enough in an ordinary educational good machine, even if it costs more,

Salvation Army Work.

We have already 20 centres of our own in India, where weaving, warping and silk reeling are being taught, while we have helped to start many others of a similar character. The influence of our work has spread to other lands, and we have supplied looms, or weaving masters to Ceylon, the Straits Settlements, Burma. China and Rhodesia. I would close with quoting the testimony of a Burmese merchant

the rate of fifty picks per minute. A little more care and attention, one could weave on these looms thoroughly in a fortnight. I at once placed an order for 5 looms, one warping machine and accessories, amounting in all to about Rs. 1,100 which were done and promptly despatched to my entire satisfaction. I am leaving with regret on Saturday. The school management and discipline are thorough quoting the testimony of a Burmese merchant who came over to our Ludhiana Weaving School to study the suitability of our methods for his country.

"I arrived here on the 31st March 1913 to study the workings of the School and Looms, and on the 2nd of April, e.e., in two days' time I found to my awards the interest of the staff do their duties cheerfully made me a dishellence that dishellence there duties cheerfully made me study the workings of the School and Looms, his staff do their duties cheerfully made me and on the 2nd of April, f.e., in two days' time a disbeliever, love respect and honour them."

I found to my surprise that I could weave at (Sd.) MAUNG HLA PE, Mandalay, Burmah.

Silk.

In the early days of the East India Company the Indian Silk trade prospered greatly, and various sub-tropical races of the Silkworm were introduced. But the trade gradually declined for the following reasons :-

In the seventeenth and eighteenth centuries India's chief competitor in the silk trade was the Levant Company. Successful efforts; however, were made to acclimatise in Europe one ever, were made to accimance in Europe one or two races of a temperate worm, procured from China and Japan. When sericulture became part of the agriculture of France and Italy, a quality of silk was produced entirely different from that of India and Turkey, and its appearance created a new demand and organized new markets.

All subsequent experience seems to-have established the belief that the plains of India, or at all events of Bengal, are never likely to produce silk that could compete with this new On the lower hills of Northern India, on the other hand, a fair amount of success has been attained with this (to India) new worm, as, for example, in Dehra Dun and Kashmir. In Manipur, it would appear probable that Bombyz mori, possibly obtained from China, has been reared for centuries. The caprice of fashion has, from time to time, powerfully modified the Indian silk trade. The special properties of the korah silk were formerly much appreciated but the demand for them has now declined. This circumstance, together with defective systems of rearing and of hand-recling and weaving, accounts largely for the present depression in the mulberry silk trade of India.

Mulberry-feeding worms.—Sir George Watt states that in no other country does the necessity exist so pressingly as in India to treat the subject of silk and the silk industries under two sections, viz., Bombycidae, the domesticated or mulberry-feeding silk worms; and Saturniidae, the wild or non-mulberry-feeding worms. In India the mulberry worm (Bombyx Mori) has been systematically reared for many centuries, there being six chief forms of it. In the temperate tracts of India various forms of Morus

alba, (the mulberry of the European silk-producing countries), are grown specially as food for the silkworm. This is the case in many parts of the plains of Northern India, Baluchistan, Afghanistan, Kashmir, and along the Himalaya at altitudes up to 11,000 feet. The other species even more largely grown for the Indian silkworm is M. Indica of which there are many distinctive varieties or races. This is the most common mulberry of Bengal and Assam, as also of the Nilgiri hills.

India has three well-known purely indigenous silkworms: the tasar, the muga and the eri.
The first is widely distributed on the lower hills, more especially those of the great central table-land, and feeds on several jungle trees. The second is confined to Assam and Eastern Bengal, and feeds on a laurel. The third exists in a state of semi-domestication, being reared on the castor-oil plant. From an art point of view the muga silk is the most interesting and attractive, and the cocoon can be reeled readily. The eri silk, on the other hand, is so extremely difficult to reel that it is nearly always carded and spun-an art which was practised in the Khasi Hills of Assam long before it was thought of in Europe.

Experiments and results .- Numerous experiments have been made with a view to improving sericulture in India. French and other experts are agreed that one of the causes of the decline of the silk industry in India has of the decline of the silk industry in India has been the prevalence of diseases and parasites among the worms, the most prevalent disease being pebrine. M. Lafont, who has conducted experiments in cross breeding, believes that improvement in the crops will be obtained as soon as the fight against pebrine and other diseases of the worms is taken up vigorously by the producers of seed and the resers of worms, while improvement in the quality of the occoms will be obtained by rearing various races, pure and cross breds.

In Kashmir and Mysore satisfactory results have been obtained. In the former State sericulture has been fostered on approved European principles with Italian reeling machinery, seed being imported annually on a large scale. In 1897 in Mysore Mr. Tata, after selecting a plantation and site for rearing houses, sent to Japan for a Superintendent and trained operatives. The Mysore authorities have made a grant of Rs. 3,000 a year to the Tata farm in return for instruction given to the people of Mysore in Japanese methods of growing the mulberry and rearing the insects. The products of the Mysore State are exported to foreign countries from Madras. The work of the Salvation Army is also noteworthy in various parts of India. They have furnished experts, encouraged the planting of mulberry trees, and subsidised several silk schools. The Bengai Silk Committee under the guidance of some French experts have conducted cross-breeding experiments with a view to establish a multivoltine of silkworm is reared. The results of the Bengal Committee's labours may be summed up as follows: the only really effective method of dealing with the problem is to work up gradually to a point at which the whole of the seed occoon necessary for the province will be supplied to rearers under Government supervision, and to establish gradually a sufficient number of large nurseries throughout the silk districts of the

Central Nurseries.—The report of the Agricultural Department, Bengal, for the year ending June 30, 1913, gives an account of a scheme which has been devised with the object of reclaiming the silk industry. The aim of

the scheme is gradually to establish throughout the silk districts a sufficient number of central nurseries with rearing houses and thus enable the whole of the seed cocoons required in the province to be supplied under Government supervisions. It is believed that this is the only really effective method of dealing with the problem. A number of the existing smaller nurseries were closed during 1913 and others are being converted into enlarged and improved central nurseries with rearing houses complete. The ultimate success of the scheme depends largely on the willingness of the rearers to pay an adequate price for pure seed.

an adequate price for pure seed.

Exports of silk.—In both raw silk and silk manufactures, India now receives far more than she gives, and for the reason already given the exports have decreased, especially those of manufactured silks. Statistics published by the Lyons Silk Merchants Union give the estimated world's production of silk in 1913 as nearly 27 million kilogrammes (1 kilog equals 2:2046 bbs.) in which total appears, exports from India 100,000 kilog, India's share in the previous year's total being 168,000 kilog. In 1011-12 the exports of Raw Silk were valued at £305,559 and of Manufactured Silk at £43,430 The import figures for the same year were Ray Silk £706,0494; Silk Manufactures £1,769,062.

Bibliography.—The Imperial Gazetteer contains copious references to the silk industry. Several monographs have been published on the subject, and details are to be found on the industry as a whole in Watt's "The Commercial Products of India" and the same author's "Indian Art at Delhi, 1903."

Indigo.

Indigo dyes are obtained from the Indigofers, a genus of Leguminosae which comprises some 300 species, distributed throughout the tropical and warm temperate regions of the globe, India having about 40. Western India may be described as the headquarters of the species, so far as India is concerned, 25 being peculiar to that Presidency. On the eastern side of India, in Bihar, Bengal, Assam and Burma, there is a marked decrease in the number of species but a visible increase in the prevalence of those that are met with.

There is evidence that when Europeans first began to export the dyo from India, it was procured from the Western Presidency and shipped from Surat. It was carried by the Fortuguese to Lisbon and sold by them to the dyers of Holland, and it was the desire to obtain a more ample supply of dye stuff that led to the formation of the Dutch East India Company and so to the overthrow of the Portuguese supremacy in the East. Opposition to indigo in 17th century Europe was keen owing to its interference with the woad industry, but it was competition to obtain indigo from other sources than India 'that led to the first decline of the Indian indigo industry. In the middle of the eighteenth century, when the cultivation of indigo in the West Indies had been given up—partly on account of the high

duties imposed upon it and partly because sugar and coffee were found to be more profitable—the industry was revived in India, and, as one of the many surprises of the industry, the province of Bengal was selected for this revival. It had no sooner been organised, however, than troubles next arose in Bengal itself through misunderstandings between the planters, their cultivators and the Government, which may be said to have culminated in Lord Macaulay's famous Memorandum of 1837. This led to another migration of the industry from Lower and Eastern Bengal to Tirhut and the United Provinces. Here the troubles of the industry did not end, for the researches of the chemical laboratories of Germany threatened the very existence of any natural vegetable dye. They strak tilled the maddar dye of Europe, then the safilower, the lac and the ad ques of India, and are now advancing rapidly with synthetic indigo, intent on the complete annihilation of the natural dye. Opinions differ on many aspects of the present vicisatinde; meantime the exports from India have seriously declined, and salvation admittedly lies in the path of cheaper production both in cultivation and manufacture. These issues are being vigorously faced and some progress has been accomplished, but the future of the industry can scarcely help being described as of great

uncertainty. The issue is not the advantage of new regulations of land tenure, but one exclusively of natural versus synthetic indigo. (See Watt's "Commercial Products of India.")

Decline of the Industry.—Since synthetic indigo was put upon the market, in 1897, the natural indigo industry of India has declined very rapidly; apart from slight recoveries in 1906-07 and 1911-12, the decline continued without a break. The figures for the last few years may be contrasted with those for the five years ending in 1897, in which the area under indigo averaged 2,400 square miles and the value of the exports over £3,000,000 a year.

_	Area under Indigo.	Quantity Exported.	Value of Exports.
1901-02 1902-03 1903-04 1904-05 1906-06 1906-07 1907-08 1908-09 1909-10 1910-11 1911-12	Acres. 791,000 646,000 707,000 477,000 384,000 421,000 394,000 284,000 276,000 271,000	Cwts. 89,750 65,377 60,410 49,252 31,186 35,102 32,490 24,946 18,061 16,939 19,155	£ 1,234,837 803,738 717,468 556,405 390,918 466,985 424,849 326,986 234,644 223,529 250,635

Present Position.—The crop is most important in Bihar and Madras; in the Punjab and United Provinces th now occupies little over 100 square miles altogether. In Bengal the crop is largely raised by British planters, in the other provinces chiefily by native cultivators. Scientific research work on questions connected with cultivation and manufacture has been carried out by the Bihar Planter's Association, with the aid of a grant from Government since 1897. It is hoped that good results may be

obtained from the biological line of work—on plant breeding and physiology—recently taken up. But the official "Review of the Trade of India in 1913-14" says that "it would seen probable that unless great improvements can be effected in cheapening the method of roduction, either by selection of seed yielding the highest percentage of indigotin, or by chemical improvement in manufacture, or in similar ways, the industry is unfortunately doomed."

The average wholesale price of Indigo in Calcutta in recent years is as follows:—

1911	 Rs.	233-1-7 p	er cwt.
1912	 ,,	211-11-3	**
1913	 ,,	233-1-2	,,

Crop Forecast.—The Director of Statistics in his first memorandum on the crop for the season 1914-15 states that the season has, on the whole, been so far favourable, although the crop suffered through want of rain in Bihar and Orissa in the early part of the season and owing to excessive rain in parts of the United Provinces. The total area so far reported amounts to 104,000 acres (excluding the United Provinces, estimated in 1913 at 24,400 acres), as against 139,000 acres (revised figure) for the same tracts in October 1913. Details for the provinces are stated below:—

	1914-19	1919-14.
	Асгев	Acres
Bihar and Orissa	38,900	63,100
Madras	38,500	45,400
Punjab	21,000	23,000
United Provinces	Not re	ported
Bombay and Sind (in- cluding Native States)	4,500	6,200
Bengal	1,300	1,200
Total (excluding United Provinces)	104.200	138,900

Tea cultivation in India is chiefly in Assam, Bengal and Southern India, the cultivation elsewhere being comparatively unimportant. The latest available official general statistics are those for the year 1913. They show a total area of 609,700 acres under tea, which is nearly 3 per cent. more than in 1912. Of this area, 556,100 acres were plucked in 1913. There were 285 tea gardens in Bengal, 732 in Assam and 259 in Southern India. The total number of plantations was 4,386. The area under cultivation has increased in the last 10 years by 15 per cent and the production by 37 per cent. The average production per acre for the whole of India, excluding Burma (where the produce of the tea gardens is almost wholly converted into wet pickled tea, which is eaten as a condiment) was 554 lbs, in 1913, as compared with 548 lbs, in 1912.

Area and Production.

The total area under tea in 1912 was divided between the different Provinces as follow:

Acres

United Provinces 7,978
Punjab 9,322
Madras 26,278
Travancore and Cochin 37,430
Burma 3,000
Grand Total 609,719

The total production in 1913 was 307,097,000 lbs., divided between the different parts of India as follows:—

			Lbs.
Assam			199,722,000
Bengal	÷.		80,109,000
Bihar and Orissa			22,245,000
Northern India	• •		4,709,000
Southern India	••	• •	312,000
Total			307,097,000

Exports.

The following were the exports in 1913-14 o: Indian tea by sea :-Lbs. .. 209,073,155 United Kingdom .. 33,398,208 1,243,808 Russia Other European Countries . . 1,593,680 893,511 Egypt Elsewhere in Africa 11,564,56 Canada ٠. 1,942,237 U. S. A. ٠. ٠. 82.500 Rest of America 3,899,677 Cevlon 11,006,653 China ٠. ٠. Asiatic Turkey 2,829,625 2,286,463 Rest of Asia . . 9,704,752 Australasia . .

Total by Sea . 289,518,833
The exports by land were as follows:— 1,325,296
Total by land 1,325,296
The sea and land exports to-

gether make, therefore, a Grand Total of ... 291,795,041

Features of the Trade.

The total tea shipments from India in the year 1913 were 289,518,833 lbs. against 281,815,329 lbs. in the preceding year. Part of the increase over 1912 was due to the largely increased consumption of Indian tea by Russia of Converse recognitive Purchase.

and Germany, especially Russia. Exports to America also steadily increased. The tea companies had a generally prosperous year in 1913. To some extent the bigger dividends for last year were due to a larger outturn. This was specially the case in the Dooars district. In all other cases the upward movement was caused, or at least materially assisted, by higher prices. The average price obtained in the past season for the delicate Darjeeling tea grown on the slopes of the Himalayas was 11.61d. a pound, as compared with 11.22d. for the 1912 season. The average price of Assam leaf was 9.74d., against 9.23d.; that of Cachar and Syhet was 8.32d., against 7.35d.; and that of Travancore 8.50d., against 7.73d. The higher range of prices for Cachar and Syhet and for Travancore, which are both commoner grades, was mainly due to a deficiency in these grades both in India and

Value of Exports .-

The following table shows the value and distribution of the Indian tea exports in the past five years (the figures being given in thousands of rupees);—

Ceylon.

Cour	itries.		1909-10.	1910–11.	1911–12.	1912–13.	1913-14.
United Kingdom Russia Ceylon Australla and New 2 China (exclusive of 1 Canada Turkey, Asiatic United States Egypt Germany Straits Settlements Persia Other Countries	Zealand Hongkong)	::	8,82,82 1,14,43 24,40 36,45 26,31 46,66 12,10 10,98 2,79 3,40 1,77 1,74 6,90	8,87,38 1,49,10 30,57 41,76 41,28 44,85 17,22 10,65 4,18 2,05 2,49 1,42 8,60	9,53,07 1,31,05 28,18 45,18 20,50 57,25 15,58 15,79 6,63 3,39 3,21 2,02 12,80	9,48,75 1,48,72 26,95 42,22 40,90 61,23 20,76 10,77 7,42 2,92 3,34 1,74 13,68	10,84,81 1,66,53 24,38 48,93 50,75 64,53 15,30 10,32 7,70 3,69 3,55 1,40 15,62

The following	table	shows	the consumption of	Indian tea in	India :	-	
Year.			Lbs.	Year.			Lhs.
1908-09	••	• •	18,260,533	1911-12			15,294,472
1909-10	••	••	13,477,297	1912-13			19,805,560
1910-11	••	••	14,224,808	1913-14			22 797 000

The following statement illustrates the variations in prices of the three principal grades of tea sold at the auction sales in Calcutta in 1888 and the past five years ending 1912, the average price of 1901 to 1910 being taken as 100 in each case. The figures represent the average of the prices of tea from all districts at each sale :-

Ye	ar.		Broken Pekoc.			1	Pekoe.		Pekoe Souchong.		ouchong.	Average for all description.		
		Price.		Variation.	Price.		Varia- tion.	Price.		Varia- tion.	Price.		Varia- tion.	
			As.	p.		As.	p.		As.	р.				
1888		••	10	3	155	8	1	137	6	8	123	8	8	124
1909	••	••	7	8	116	7	9	115	6	0	118	7	5	106
1910			7	3	110	7	0	119	6	4	125	7	10	112
1911		••	7	9	117	. 7	7	129	6	9	133	7	11	113
1912			7	5	112	6 1	1	114	5	9	113	7	8	110
1913	••		8	1	122	7	5	126	6 1	0	135	8	3	118

Capital and Labour.

The number of persons employed in the industry in 1913 is returned at 572,533 permanently employed, and 94,379 temporarily employed. Compared with the returns of the previous year, there is an increase of 24,988 permanent employes and a decrease of 1,211 in the number of temporary hands. The capital of joint stock companies engaged in the produc-tion of tea amounted to about Rs. 26.9 crores or over £17.9 millions, viz.-

Companies registered in India . . 4,07,73,708 Companies registered in the United Kingdom (£15,187,963) 22,78,19,445

Particulars are available concerning the present position of 98 companies registered in

shares of 87 companies quoted in the Calcutta share market was Rs. 144 in March 1913, and of 92 companies was Rs. 166 in March 1914.

Similar details are available regarding 68 companies registered in the United Kingdom with sterling capital of £93 million Rs. 1,394 lakhs. The total dividends declared in 1912 by 67 companies out of them with an aggregate capital of £9.2 millions (about Rs. 394 lakhs) amounted to 10.4 pc. cent. In 1913 the dividends so (ar declaved by 58 companies come to 11.4 per cent. on their aggregate capital of about £8.8 millions Rs. 1.323 lakhs).

Foreign Tea in India.

The imports of foreign tea into India in the year April-March 1913-14 were 8,539,000 lbs., or 400,000 less than in the preceding year. India, which have an aggregate paid up capital in the preceding year.

About a seventh was re-exported as foreign of Rs. 301 lakhs. Of these companies, 85 tea, chiefly from Bombay to Persia, Turkey companies declared dividends for 1012, amounting to the companies have up to now declared dividends for 1913, amounting to Table 1913, amounting to Part of this, no doubt, was used for blending 174 per cent on their aggregate capital of Rs. with Indian tops and the blond when expending the companies have up to the compani 17.4 per cent on their aggregate capital of Rs. with Indian teas, and the blend, when ex274 lakks. The value per Rs. 100 of joint ported, would doubtless be treated as Indian
stock capital as calculated on the prices of the produce in the customs declarations.

Coffee. 288

The history of the introduction of coffee into India is very obscure. Most writers agree that it was brought to Mysore some two centhat it was brought to Mysore some two centuries ago by a Mahommedan pilgrim named Baba Budan, who, on his return from Mecca, brought seven seeds with him. This tradition is so universally believed in by the inhabitants of the greater part of South India, that there seems every chance of its being founded on fact. About the beginning of the 19th century, there is no doubt coffee had found its way to India and in 1823 a charter was granted to India, and in 1823 a charter was granted to Fort Gloster, near Calcutta, authorising it to become a cotton mill, a coffee plantation and a rum distillery. Some of the coffee trees planted in fulfilment of that charter are supposed to be still alive, and about the same time coffee was successfully grown in the Botanic Gardens, Calcutta; but the industry of coffee planting nowhere found an abding place on the plains of India but migrated to the hills of South India, in Mysore more especially, and thus into the very region where tradition affirms it had been introduced two centuries previously.

The first systematic plantation was apparently Mr. Cannon's near Chikmuglur. This was established in 1830. It is supposed, however, that Major Bevan may have actually grown coffee on the Wynad at a slightly earlier date, and that Mr. Cockburn's Shevarov plantation bears the same date as Mr. Cannon's. In 1840 Mr. Glasson formed a plantation at Manantoddy, and in 1846 plantations were organised on the Nilgiri hills.

The Position of the Industry.—The reported area under coffee has shown a continuous

OILS AND

The value of non-essential oil seeds exported from India in 1913-14 was £17,000,000, of which from India in 1913-14 was £17,000,000, of which still million represents exports to France, Belgium, Germany, and Austria-Hungary. A pamphlet on the subject recently published by the Commercial Intelligence Department points out that it is both economically and industrially unsound for India to export her oil sands ally unsound for India to export her oil seeds instead of manufacturing the oils and oil cakes in India. It allows other countries to reap the manufacturers' profits and at the same time deprives Indian agriculture of the great potential wealth, as cattle-food and manure, contained in the oil cakes. An immense quantity of oil is, as a matter of fact, already manufacof oil 18, as a matter of fact, already manufactured in this country by more or less crude processes. Village oil mills worked by bullocks and presses worked by hand exist in all parts of the country and supply most of the local demand for oil. There has also been a great increase in recent years in the number of oil mills worked by steam or other mechanical power. These crush all the commoner oil seeds power. These crush all the commoner oil seeds and development has been especially marked in the case of mustard oil, castor oil and groundnut oil. In spite of all this there has been a pernut oil. In spite of all this there has been a perceptible diminution in the export of oil from India, particularly of eccoant oil and linseed oil, and an increase in the export of oil seeds, which is particularly marked in the case of copra and groundnuts. The situation created by the War has naturally led to much discussion. of the possibility of developing on a large scale the existing oil-milling industry in India.

There are three difficulties with which any proposal to develop in India an oil-milling industry on a great scale is faced. In the first

diminution since 1896. According to the agricultural statistics, the total in British India fell from 188 square miles in 1901-02 to 148 square miles in 1911-12, while for Mysore the corresponding figures were 195 and 167 square miles. It is reported that in some of the coffeemiles. It is reported that in some of the coffee growing districts coffee is giving way to tea, or, where the altitude is not prohibitive, to rubber. The advent of large supplies of cheap Brazilian coffees in the markets of Europe has, by bringing down prices, no doubt injured the coffee industry of India very seriously; but the following figures of export trade show no marked change in the position since 1902.—

		Owes.
1901-02	 	 255,042
1902-03	 	 269,165
1903-04	 	 291,254
1904-05	 	 329,647
1905-06	 	 360,182
1906-07	 	 228,094
1907-08	 	 244,234
1908-09	 	 302,022
1909-10	 	 232,645
1910-11	 	 272,249
1911-12	 	 241,085
1912-13	 	 267,000
1913-14	 	 260,000

The exports to the United Kingdom have in the last few years fallen off considerably, but there has been no great diminution in the trade with France, and exports to other Continental countries have shown some increase. No estimate of the quantity of coffee consumed in India can be given.

OIL CAKES.

place, there exist high protective tariffs in European countries which encourage the export from India of the raw material rather than the manufactured product. Secondly, there is a better market for the oil cake in Europe than in India and the freight on oil seeds is less than the freight on cake. Thirdly, it is much easier and less expensive to transport oil seeds by sea than it is to transport oil. While this has been than it is to transport oil. the position in the European markets, Indian made oils, other than cocoanut oil, have made enough headway in Eastern markets to suggest the possibility of a development of those markets.

The problem of finding a market for oil cakes is equally important. The value of oil cakes is much better appreciated in Europe than in India. The Indian cultivator is prejudiced against the use of machine-made cake as a cattle food or as manure because he considers that it contains less oil and therefore less nourishment than the village-made cake. He is therefore unwilling to buy it except at a reduced price. His prejudices on this point have no justification in fact since experts are agreed that mill cake is a better food for cattle than village-made cake. Even when the mill cake contains less oil than the village cake. there is still more oil in the cake than cattle can digest. The excess of oil in the village cake, where it exists, is a drawback and not an advantage to the use of the cake as food. A considerable amount of demonstration work has been done by the Agricultural Departments of Government in order to remove the cultivator's prejudices and there is said now to be an increasing demand for most classes of mill cake.

The necessity of protecting the vast forest | areas in India and Burma was first recognised in the Madras Presidency nearly a century ago, when steps were taken to protect on a limited scale the more valuable areas in the Anamalis, while in December 1886 Doctor Cleghorn was appointed the first Conservator of Forests in that Presidency. It was not, however, until 1856 that Lord Dalhousie laid down a definite policy with the object of affording more widespread protection to the vast areas of valuable forest in British India. The action taken by the Supreme Government came none too soon, for already in many localities the wanton backing by the local population and even more so by timber contractors, had reduced the forests to a state from which they could not be expected to recover for many years, even under the strictest protection.

Recruitment of the Staff.

In order to introduce a system of conservative management on scientific lines it was of first importance to collect a staff of trained foresters, and as no forest training college existed at that period in England, the Government of India, as a commencement, enlisted the services of three German Forest Officers. The first of these to come to India was the late Sir Detrich Brandis, K.O.I.E., F.R.S. and it was to his extra-ordinary energy and abilities that a sound foundation was originally laid to the scientific management of the State forests. Soon after management of the State forests. Soon after his arrival in India, the staff was materially strengthened by the recruitment of officers from the Indian Army. In 1869 the first batch of technically-trained English forest officers joined the service, having received their training either in Germany or France and the ing either in Germany or France, and this system of continental training remained in force until 1876, after which the training was carried on entirely at the National Forest school of Nancy. The first batch of Coopers will trained force training the National Forest school of Nancy. Hill trained foresters arrived in India in 1887 and the last in 1907, after which date the training took place at Oxford University, and later also at the Universities of Cambridge, Edinburgh and Dublin. In this way the Government of India have been able to collect by degrees a highly trained staff of men to carry on the administration of their State forests. The total strength of the Imperial Establish-ment at the present time is 248, of whom 29 are administrative officers and 219 Executive officers, among the latter are included In-structors and Research Officers who are employ-

ed at the Forest Research Institute, Dehra Dun In order to keep pace with the recruitment of the superior staff, a Forest School was opened in 1878 at Dehra Dun for the training of Forest Rangers. Recently this School has been converted into a College and the instruction ex-tended to include a course for training men for the Provincial Services. Besides the Forest College at Dehra two new Rangers' Schools have been established, one at Pyinmana in Burma and the other at Coimbatore in Madras. Besides this nearly every Province has estab-lished a local Forest School for the training of the lower subordinate establishment.

Area of State Forests.

The forests belonging to the State covered in 1912-13, 2,38,926 square miles, or roughly one-fourth of the whole of India and Burma. Of this 96,867 square miles in 1912 of one-fourth of Of

are Reserved Forests, 8,492 square miles Protected Forests and 1,33,564 square miles Unclassed forests, by far the greater portion of the latter class occurring in Burma. The distribution of these areas is by no means uniform, the majority being found in Burma, Assam, Northern Bengal and along the foot of and extending into the Himalayas from the Nepal frontier westward through the United Pro-vinces and the Punjab. In the Gangetic valley, in the plains of the Punjab, in Sind and Rajputana few forests occur except along the rivers, nor does one come across large wooded tracts until one enters the Central Provinces and the Godavari catchment area. From there south-ward in the Satpuras and throughout the North and South Deccan there exist well distributed and south becean there exist well distributed areas of forests, though generally not in large blocks, while on the Western Ghats, in the Nilgiris and Anamalis, are found some of the finest teak forests of India proper. The East Coast of India is fairly well stocked with forest courts are all the coards. growth, especially in the Godavari basin, to the west of Cuttack and Puri and again in the Sundarbans, while the Andaman Isles are densely wooded.

Revenue, Expenditure and Outturn.
The gross Revenue from State forests in 1912-13 amounted to Rs. 322,09,809, while the expenditure stood at 172,07,810, giving a net revenue of Rs. 150,01,909. The total outturn of timber and fuel in that year amounted to 242 million cubic feet, out of which 0,462,190 cubic feet of fuel and 3,157,166 cubic feet of timber were given free to the local population. The number of bamboos removed came to nearly 302 million, valued at 12 lakhs of nearly 302 million, valued at 12 lakhs of rupees and the number of cattle grazed amounted to 15,674,598, while the total revenue derived from Minor Products was 110 lakhs of rupees. From the above figures it will be readily understood that not only is the revenue realised

by the State considerable but that the handling of such large amounts of Forest Produce requires a competent staff of officers.

Management.

The system under which the State forests are managed varies in different Provinces. In all cases, however, the aim of the Forest Department has been to introduce Working Plans for their forests, based on European systems of management. The system most usually adopted in India, especially for working the valuable teak and sal forests, is the Selection System, in other words maintaining an equal distribution of all age classes throughout the forest. In a few cases such as in deodar and other coniferous forests and also in a few instances in sal forests, the Uniform Method or a system by which trees of more or less uniform age are grouped together has been applied, and this method of mere intense management may come into more general use in sgement may come into more general use in the future, as a greater number of trained officers become available. In many casts, owing to the destruction of the forests in the past, it has only been possible to prescribe improvement Felling, though in time a more regular system of working will be introduced. The forests which are destined to supply small building timber and fuel to the local population are generally worked by either the Copplee with Standard or Pure Copplee methods, according to the state and composition of the according to the state and composition of the

forest, while certain areas have been put aside for the formation of Fuel and Fodder Reserves or as grazing areas.

Forest Surveys.

The preparations of maps for the State Forests is undertaken by the Great Trigomometrical Survey Department. The area for which detailed surveys have been prepared was roughly 80,000 square miles in 1911-12, to which figure yearly additions are being made. As soon as possible after the compilation of detailed maps, Working Plans are prepared for the forest, and up to 1911-12 about 50,000 square miles of Forests have been dealt with.

Method of Extraction.

Once the forests have been organized and plans of working prepared by an officer put on special duty for the purpose, it remains for the executive officers to arrange for the exploitation of the trees, according to the provisions of the sanctioned plans. This work is carried out in various ways in different localities. Sometimes it is done departmentally, as for instance in certain divisions on the West Coast and also in three or four of the western Pegu Yoma divisions, in Burma. This system which had to be adopted by the Department when work was first commenced and con-tractors could not be obtained, has now genetractors could not be obtained, has now gene-rally been replaced by a system of giving leases to work the forests or by selling the annual coupes standing to contractors. In the case of the valuable teak forests of Burma the system of granting leases for a period of from system of granting reases for a period of found 10 to 20 years has generally been adopted and has been found to work satisfactorily, the trees for felling being marked by the Forest Department. In other provinces this system has been adopted on a more restricted scale, and in India proper the custom of holding annual sales and selling the trees standing has been found more convenient and profitable. The right to collect Minor Produce is generally The right to collect Minor Produce is generally put up for auction, which gives the highest bidder the right to collect the produce from the forest for a given period, generally one year. In order to meet the requirements of the local population a system of issuing permits is in force, the permit being issued free to right or privilege holders and on payment of a low fee to other persons. This enables agriculturists to obtain their requirements as to fuel, building timber and grass etc., without having to pay enhanced. out delay and without having to pay enhanced rates to a middleman. The right to grazing is dealt with in the same way.

Important Timbers.

The forests of British India contain a vast number of trees and woody plants, in fact a far greater number than is generally realized by the public. For instance the number of tree species is about 2,500, while the number of woody shrubs and climbers is not far short of that total. Of all Indian species of timber teak stands first, both in quality and as to the amount annually exported from the State forests. The outturn of this timber from Burma only, in 1912-13, amounted to 255,876 tons, while the total outturn from British India is estimated at 304,304 tons. Sal comes next in importance and is obtained in the greatest quantities from the United Provinces and

Nepal, while a very considerable amount is also available from Bengal, the Central Provinces, Assam and the Feudatory States of Orissa. The outturn of sail in 1912-13, from Government Forests, amounts to 167,093 tons and from Native States and private land to 35,650 tons, about one-third of the total of which is converted into railway sleepers. Of other species of nearly equal importance is deodar, the timber of which is extensively used in construction and as railway sleepers; sandalwood, sissoo and blackwood, the last two timbers being highly prized for building purposes and furniture making; the sundri-wood of the Sundarbans and Bassein, used in boat and carriage building; Andaman and Burman Padauk, used for the construction of gun carriages, furniture and railway carriages; the Pyinkado of Burma, used in building and one of the first sleeper woods in the world; the Red Sandars of Madras, babul, the in or eng wood of Burma, all used for building and one of the construction. A great variety of other useful timbers could be mentioned of nearly equal importance to the above, which go to supply the requirements of the enormous population of the Indian Empire.

Minor Forest Products.

Turning now to Minor Forest Products, the fibres, and flosses, grasses, distillation products oil seeds, tan and dyes, gums and resins, rubber, drugs and spices, edible products, bamboos, canes, and animal and miscellaneous products. The number is very large, while some of them are of considerable economic importance, so much so that they realized over 110 lakins of rupees in 1912-13. It is not possible to do more than to mention one or two of the most important of these commodities, as for instance myrabolams for tanning, of which 1,397,755 cwt. were exported from India last year. Cutch is of even greater importance, being produced chiefly in Burma and the United Provinces though also prepared on a more limited scale elsewhere; the total amount of Cutch exported from Burma during the year ending March 1913, amounting to 3,433 tons. Another equally well known product is lac, produced chiefly in Sind and the Central Provinces which besides being used locally, is annually exported in the form of shellac, which in 1912-13 valued Rs. 2,11,33,184. Of other Minor Forest Products which deserve mention are rosha and lemon oils; gum kino, babul gum, gurjan oil, thitsi damar and rubber, which are classed as exuded products; sabai grass for papermaking and Munj grass for flore and thatching; mohwa seed yielding a valuable oil, sandal and agar wood oil and the essential oils obtained from them; simul floss used for stuffing pillows; kamella powder and lac dye used for dyeing; podophyllum resin, cassia bark, cardamons, pepper and strychnine, come under the head of drugs and of considerable local values.

From what has been said above it will be seen that the Minor Products obtained from the Indian forests play by no means a small part in the economy and commerce of the country.

AREA of FOREST LANDS, OUTTURN of PRODUCE, and REVENUE and EXPENDITURE of FOREST DEPARTMENT.

-					Area of of t	Lands u he Forest	nder the Departm	control ent.	Propor-	Outturn of	Produce.			
,	Province.			Area of Province	Reserved Forests.	Protected Forests.	Un- classed State Forests, &c.	Total.	tion of Colm. 6 to Colm. 2	Timber and Fuel.	Minor Produce.	1	Expendi- ture,	Surplus.
				Sq. miles.	Sq. miles.	Sq. miles.	8q. miles.	Sq. miles.	Per cent.	Cu. ft.	£	£	£	£
Bengal United Provi Punjab	inces	**	::	115,664 106,773 97,211		80	 30 1,319		6.0 3.9 8.9	34,094,103 18,279,139 29,706,898	49,886	158,563	82,529	34,944 76,034 31,830
Burma Eastern Ben Central Prov	gal and Assa inces and Be	m erar .	::	169,989 93,906 99,874	6,485		111,150 22,416			52,265,353 21,049,906 32,627,467		126,042	72,489	
Coorg North-West Ajmer-Merw	Frontier Pro	vince	::	1,582 13,184 2,767			::	520 236 142	32.8 1.8 5.1	511,830 1,080,092 506,813	1,555		4,833	11,225 8,856 928
Baluchistan Andamans Madras Bombay	::	::	::	46,656 3,143 142,298 123,235	156 18,629		472 1,796 1,401	785 1,952 20,030 12,379	1.6 62.1 14.0 10.0	286,110 1,941,475 25,174,044 43,059,945	337	27,785	215,053	12,654
Tot	al, 1910-11			1,016,282	96,387	8,507	138,584	243,478	23.9	260,583,175	635,188	1,827,030	1,016,268	810,762
	1909-10 1908-9 1907-8	::		987,990 986,144 985,938	96,474 94,561 94,059		140,263 138,378 134,897	241,774	24.9 24.5 24.2	241,132,930 232,035,865 234,982,123	526,669	1,735,053 1,697,120 1,724,198	981,736	740,343 715,384 756,670
Totals -	1906-7 1905-6 1904-5	::		987,749 970,617 967,255	94,037 92,496 92,182			233,651	24.3 24.1 24.1	222,146,948 246,334,840 251,568,276	461,300	1,766,099 1,778,306 1,601,997	950,568	828,512 827,738 737,473
	1903-4 1902-3 1901-2	::	::	967,824 966,073 975,912	90.750	9,519	116,555	216,824	22.4	232,916,345 245,900,612 231,601,077	307,423	1,481,116 1,298,103 1,188,248	749 956	669,983 548,147 471,822

Forests.

Rubber Cultivation.

The most important rubber-yielding tree found growing naturally in the Forests of India is Ficus elastica, avery large tree of the outer Himalayas from Nepal eastwards, in Assam the Khasia Hills and Upper Burms. It has also been cultivated in Assam in the Charduar plantation in the Texpur Sub-Division, as also in the Kulsi plantation of the Gauhati Sub-Division in the Kamrup Division. There are also a number of other rubber-yielding trees found in the Indian and Burman forests from which rubber can be collected on terms quoted by Government. Attempts have been forests from which tuber can be conserved on terms quotes by Government. Retain the first made to cultivate Pars, Cears and Castilloa in various parts of India and Burms, In India proper the chief attempts were made on the west coast, about 180 acres being planted from 1908 onward at Gersoppa. Similar attempts have been made in Madras: but at present Para rubber is being grown as a commercial product rather in Burma than the rest of India.

Statistics of Cultivation.

Few statistics are available of the cultivation of rubber in India, but in June, 1914, the Indian Trade Journal published a table showing the approximate acreage under rubber in 1913, and the number of trees planted. The figures, which do not pretend to any great degree of accuracy, may be summarised as follows :-

				Joint Stock Companies.	Private Owner.	Capital invested in Joint Stock Companies.	Area in acres.	Approximate Number of trees.
Burma	••		••	19	194	Rs. 50,81,410 and £237,436	29,544	4,911,399
Assam		••		8	unknown	••••	4,686	137,430
Madras I	Presider	ıcy		5	unknown	Rs. 10,46,090 and £208,000	12,022.04	1,636,476
GI	AND TO	TAL I	NDIA.	27	Over 200	Rs. 61,27,500 and £445,436	46,252.04	6,685,305

The yield of the Assam plantations is very small, but the number of trees to the acre is much less in that province than in Madras or Burms. Although Burms easily heads the list in acreage and number of trees planted, most of these trees are less than six years old, and, therefore, not and infinite of week plantest most of office steep are less onan six years old, and, therefore, not at present productive. It is not surprising, therefore, to find that the outturn of Madras as indicated by the export figures is at present more than double that of Burma. The Export figures for the last four years have been as follows:—

						1910-11.	1911-12.	1912-13.	113-14.
Bengal Madras Burma	::	::	::	::	::	cwts. 1,257 1,414 1,214	cwts. 1,315 4,866 2,770	cwts. 1,041 8,888 4,698	cwts. 474 15,959 6,831
				Total	••	3,885	8,951	14,627	23,264

Thus while the Assam production, as shown in the Bengal export figures, has been steadily declining, the production in the other two provinces has risen rapidly. Madras exports of rubber in 1913-14 shown an expansion of 79 per cent. in quantity and 50 per cent. in value. It seems possible, however, that in a few years' time Burma will outstrip Madras.

The Commissioner of Settlements and Land Records, Burma, gives the following rough estimates of future production -

1914										
1915			••	••	••	• •	• •		1,000.000 1	ha
	••	••	• •	• •	••			• • •	1 FOO 000	
1916	• •	• •	• • •				••	• •	1,500,000	,,
1917		• •			•••	• •	• •		1,800,000	,,
	- •	••	• •	• •	• •	• •			3 000 000	,,

BIBLIOGRAPHY.—For fuller details see "Dictionary of the Economic Products of India" and the abridged edition of the same published in 1908 under the title "The Commercial products of India" by Sir George Watts; and the "Commercial Guide to the Forest Economis Products of India" by R. S. Pearson, published by the Government Press, Calcutta, 1912.

PAPER MAKING.

This industry is not making the headway [in India that had been anticipated, there being only nine mills at work with a nominal capital of about Rs. 54 lakhs, which in 1913 produced over 601 million lbs. of coarse paper, valued at Rs. 80 lakhs.

There are five large paper mills in the country working on up-to-date Western lines, viz., at Titagarh, Kankinara and Ranjanj in Bengal, the Upper India Couper Mills at Lucknow and the Reay Mill at Poona. There are also two smaller mills at Bombay and Surat which make only country paper, and there are one or two other mills which recently were not working. The five large mills have a large Govern-ment connection, as the greater part of Government orders for paper is placed in India. Apart however from Government orders, the Indian paper mills cannot be said to have made headway against the competition of imported

paper.
The existence of the local industry depends chiefly on the supply of Sabai grass which on cmeny on the supply of Sabal grass which on account of unfavourable seasons sometimes yields short crops. It is of great importance, therefore, to look for materials affording a constant outturn, and various reports have been published on the available paper-making materials. Considerable, attention here materials. Considerable attention has been devoted to Bamboo, since 1875 when it was quevoted to Bamboo, since 1875 when it was found that this plant—of which there are four chief varieties in India—yielded a fibrous paper stock which made a quality of paper superior caparto grass and at a considerably less cost. It was at that time estimated that one stand of hamboo would yield the total date. cost. It was at that time estimated that one acre of bamboo would yield 10 tons of dried stems equivalent to 6 tons of merchantable cellulose. In 1905 Mr. R. W. Sindall was

invited by Government to visit Burma with a view of enquiring into the possibility of manufacturing paper pulp. His report on the subject appeared in March 1906. He made numerous experiments with bamboo and woods of Burma and laid down lines along which further enquiry should be made. Subsequently Mr. W. Raitt. a pulp expert, was engaged at the Forest Research Institute in conducting tests on the treatment of bamboos by the soda and sulphate processes, the treatment of bamboo before boiling, with remarks on the utilisation of nodes and internodes. His results were embodied in the "Report on the investigation of Bamboo for Production of Paper-pulp," published in 1911. Lastly, Mr. R. S. Pearson of the Forest Service, Dehra Dun, as the outcome of enquiries made throughout India published in 1912 a note on the Utilization of Bamboo for the Manufacture of Bamboo fo Manufacture of Paper-pulp. The yield per acre from bamboo is larger than that of grasses usually used for paper. The cost of working into pulp has been estimated to yield a product cheaper than imported unbleached sulphite and unbleached sabai grass pulp, spruce

The leading Indian paper grass for the last thirty years has been the bhaib, bhabar, or sabai grass of Northern India. It is a perennial grass plentiful in drier tracts from Chota Nagpur and Rajmahal to Nepal and Garhwal. The Calcutta mills draw their supplies from Sahibgani, Chota Nagpur and the Nepal Terai. The quantity annually exported from Sahibgani is between three to four lakhs of maunds. The cutting in these districts is said to commence in October when the plants are six or seven feet high. Sabal grass yields from 36.6 to 45.5 per cent, of bleached cellulose.

MATCH FACTORIES.

The imports of Matches in 1912 totalled Rs. 90 lakhs—a decrease of Rs. 9 lakhs as compared with the previous year's total. Japan, Scandinavia, Austria-Hungary, Germany and Belgium, in the order given, are the sources of our supply and it does not seem improbable that if the war is protracted the price of matches may show some slight increase. In the opinion of the Forest experts at Dehra Dun there is an abundance of raw material in this country for match manufacture.

Indian timbers for matches.—In an article on the Indian match industry which appeared in the Indian Agriculturist the woods of the in the indian Agriculturist the woods of the following species are said to be employed in Burms for match splints: Bombax insigns, B. malabaricum (simul), Anthocephalus Cadamba (kadam), Sarcocephalus cordatus, Spondias mangifera (amra), and Engelharditis spicata (palash). These woods are not the best for the manujeru (palash). These woods are not the best for the purpose, but are those most easily procurable. There are other kinds of white wood, such as poplar, pine, willow, and adler, in abundant quantities, but they are difficult to extract and the processor.

The attempts to manufacture matches in India have not hitherto been attended with mois nave not hitherto been attended with great success, but recently two well-equipped factories have been started in Burma which give promise of good results. One of these is in Rangoon and is owned by Chinese; the other is at Mandalay, and is under European management. Further investigations are said to be necessary in order to settle the question as to the most suitable woods to employ, and when these have been brought to a satisfactory conclusion it is thought that Burma will be able to produce matches of first-class quality. It may be added that in 1912, the latest year for which complete statistics are available, there were six match factories in India.

The Law in India prohibiting the importation of the old sulphur matches as from July ation of the old supplier macenes as from all 1st, 1913, has not seriously affected the position of the Swedish manufacturers, as they were able to supply another "strike-anywhere" able to supply another "strike-anywhere" match to take the place of the kind then pro-biblied, but as the new kind is dearer to manu-facture the prices have gone up, and are likely to rise still further.

Mines and Minerals.

nently in a survey of the mineral industries of India is the fact that until recent years little has been done to develop those minerals which are essential to modern metallurgical and chemical industries, while most striking progress has been made in opening out deposits from which products are obtained suitable for export, or for consumption in the country by what may conveniently be called direct processes. In this respect India of to-day stands in contrast to the india of a century ago. The European chemist armed with cheap supplies of sulphuric acid and alkali, and aided by low sea freights and increased facilities for internal distribution by the spreading network of railways has been enabled to stamp out, in all but remote localities, the once flourishing native manufactures of alum, the various alkaline compounds, blue vitriol, copperas, copper, lead, steel and iron, and seriously to curtail the export trade in nitre and borax. The reaction against that invasion is of recent date. The high quality of the native-made iron, the early anticipation of the processes now employed in Europe for the manufacture of high-class steels. and the artistic products in copper and brass and the artistic products in copper and prass gave the country a prominent position in the ancient metallurgical world, while as a chief source of nitre India held a position of peculiar political importance until, less than forty years ago, the chemical manufacturer of Europe found among his by-products, cheaper and more effective compounds for the manufacture of explosives.

The feature which stands out most promi- | chemical products in India has steadily grown. Before long the stage must be reached at which the variety and quantity of products required, but now imported, will satisfy the conditions necessary for the local production of those which can be economically manufactured only for the supply of groups of industries.

> Value of Output .-- The total value of minerals for which returns of production are available for the year 1912 was £9,321,486 being an increase of £1,340,318 on the previous year's output. The following are the more important of the minerals included in the above.

		1911	1912.
Coal Gold Petroleum Manganese-ore Satt Mica Building materials road metal Saltpetre Lead-ore and Lead	and	£ 2,502,616 2,238,143 884,398 648,801 469,235 188,642 246,446 220,268 181,989	884,404 509,824
Tungsten-ore	••	99,989	115,200

Coal.

Most of the coal raised in India comes from the Bengal-Gondwana coal-fields. With the spread of railways, the development | Bengal the most important mines are those at of manufactures connected with jute, cotton and paper, and the gradually extended use of electricity the demand for metallurgical and one time, or another.

The production of Indian coal during 1913 aggregated 16,208,009 tons or improved by 10 per cent. The following table shows the outturn, prices (declared export values), exports and imports for ten years. Of the total outturn 86 per cent. Is produced in the Raniganj and Jheria and wants of the boundary suffered in 1913 from excessive and abnormal floods and fires at places, and want of labour which was diverted to the rice cultivation owing to early monsoon rains. was also some shortage in Railway wagons caused by the great demand for fodder transport.

· ·—-			· 		Outturn, Tons.	Declared value per ton.	Exports. Tons.	Imports. Tons.
						Rs. a. p.	· ·	
1904-05					8,216,706			l
1905-06					0,210,706	7 13 2	594,832	252,393
			• • •		8,417,739	7 13 3	836,149	179,935
1906-07				- 1	0 500 0	l .	1-1,-10	170,000
1907-08		••	••		9,783,250	7 15 11	935,350	257,203
	••	••	• •	- • •	11,147,339	8 1 7	727,881	
1908-09				- 1			141,001	308,348
1909-10	••	• •	• •	••	12,769,635	8 13 5	571,582	
3000-10	••	• •	••		11,870,064	8 13 7		455,800
1910–11				- 1		0 20 7	758,829	428,535
	• •			!	12,047,413	8 10 ' 6		1
1911-12	• •				12,715,534		889,601	334,181
				· · · i	,. 20,002	8 13 0	873,987	297,912
1912–13					14,706,339	100	,	,
1913-14		•••			16,208,009	10 0 4	881,239	653.694
	• • •	••	••		10,200,009	9 8 11	723,641	559,190

Provincial production of coal during the years 1911 and 1912.

Province.		1911.	1912.	Province.	1911.	1912.
Assam Baluchistan Bengal Behar and Orissa Central India Central Provinces	::	Tons. 294,893 45,707 11,468,904 143,558 211,616	54,386 4,306,129	Rajputana (Bikaner)		50 38,409 18,251

Prices of Coal.—Prices for first class Jheria in 1913 opened at Rs. 3-12, rose to Rs. 5-8 in Movember. They advanced to Rs. 5-4 in early March, owing to transport difficulties, and closed at Rs. 3-8 to Rs. 4-8 per ton at the pit's mouth.

MANGANESE ORE.

This industry commenced some twenty years ago by quarrying the deposits of the Vizagapatam district, and from an output of 674 tons in 1892, the production rose rapidly to 92,008 tons in 1900 when the richer deposits in the Central Provinces were also attacked, and are now yielding a larger quantity of ore than the Vizagapatam mines. India now takes the first place among the manganese producing countries in the world. The most important deposits occur in the Central Provinces, Madras, Central India, and Mysore—the largest supply coming from the Central Provinces. The uses to which the ore is put are somewhat varied. The peroxide is used by glass manufacturers to destroy the green colour in glass making, and it is also used in porcelain painting and glazing for the brown colour which it yields. The ore is now used in the manufacture of ferromanganese for use in steel manufacture. Since 1904, when the

total output was 150,190 tons, the progress of the industry has been remarkable owing to the high prices prevailing. In 1905 production reached 247,427 tons; the following year it was more than doubled (571,495 tons), and in 1907 the figures again rose to 002,291 tons. In 1909, on account of the fall in prices the output contracted to 642,675 tons, but it almost regained its former position in 1910 when the production rose to 800,907 tons. In 1911 it fell to 670,290 tons, and in 1912 to 637,444 tons. The ore raised in the Central Provinces is of a very high grade, ranging from 50 to 54 per cent. of the metal, and in consequence of its high quality is able to pay the heavy tax of freight over 500 miles of railway, besides the shipmont Icharges to Europe and America, for the whole of the ore is exported to be used principally in steel manufacture in the United Kingdom, Germany, and the United States.

Exports of Manganese.—The following tables show the quantity and value of manganese ore exported by sea from British India to countries of final destination in the twelve months ending March, 1914.

		Twelve months ending March.				
	ľ	19:	12-13.	1913-14.		
)	Quantity.	Value.	Quantity.	Value.	
United Kingdom		211,921	34,75,018	258,776	42,17,102	
Germany	• •	7,250	1,35,908	18,950	3,59,287	
Holland	• • •	23,850	4,19,025	8,200	1,80.500	
Belgium		171,066	27,64,300	187,821	81,84,620	
France		112,223	19,23,656	103,847	19,14,722	
Italy		6,600	1,18,800	7,800	1,40,400	
Austria-Hungary		3,300	59,401	10,310	1,85,580	
Japan		3,271	74,558	16,018	3,98,033	
United States of America		168,600	24,69,810	106,327	16,01,205	
TOTAL	[708,081	1,14.40,476	718,049	1,21,31,449	

The fall in prices in the latter part of 1907 produced by 1909 an almost complete cessation of mining for lower grades of ore at mines far removed from railways. Owing to an excess of production over exports the stocks on the mines at the end of 1908 stood at the high total of nearly 300,000 tons. The rise in the price of ore during 1910 resulted in a considerable increase in the total production, namely from 624,675 tons in 1909 to 800,907 tons in 1910 9.3d. in 1911.

but with a fall in price in 1911 the output also, fell. In 1912 there was a rise of over 36 per cent in the value of the outturn. At the same time there was a slight fall in the amount produced. The rise in the value of the total output is therefore due to improved prices and not to increased outturn. The average value of first grade ore was 11.1d. and of second grade ore 10.8d. as against 9.5d. and 9.3d. in 1911.

Quantity and value of Manganese-ore produced in India during 1911 and 1912.

			19	11.	1912.		
<u> </u>				Quantity.	Value f. o. b. at Indian ports.	Quantity.	Value f. o. b. at Indian ports.
				Tons.	£	Tons.	£
Bihar and Orissa— Gangpur		••		25,152	25,257	27,173	37,476
Bombay— Panch Mahals				45,330	45,519	43,538	60,046
entral India— Thabua		••		7,319	6,068	5,652	6,688
Central Provinces— Balaghat		••	••	144,642 119,606	147,053 121,600	135,435 115,365	199,202 169,683
Bhandara	••	••	••	1,540	1,566	16,517	24,294
Chhindwara Nagpur	••	•••	• • •	179,263	182,500	147,225	216,544
Madras-	• • •	••		1			
Sandur	••	^		66,950	53,002	62,488	71,080
Vizagapatam	••	• •		58,915	46,641	54,758	62,28
Mysore	••	• •	• •	21,573	19,595	29,293	37,10
		Total		670,290	648,801	637,444	884,40

GOLD.

The greater part of the total output of gold in India is derived from the Kolar gold field in Mysore. During the last decade the production of this mine reached its highest point in 1905 when 616,758 ounces were raised. In 1906 the quantity won was 565,208 ounces and this figure fell to 535,085 ounces in 1907. The figures for the latter years reveal a small improvement. The Nizam's mine at Hutti in Improvement. The Nizam's mine at Hutti in Hyderabad comes next, but at a respectable distance, to the Kolar gold field. This mine was opened in 1903. The only other mines from which gold was raised were those in the Dharwar district of Bombay and the Anantapur district of Madras. The Dharwar mines gave an output of 2,993 ounces in 1911 but work there ceased in 1912. The Anantapur mines gave their first output of old during the work 1919. there ceased in 1912. The Anantapur mines gave their first output of gold during the year 1910, the amount being 2,532 ounces, valued at Rs. 1,51,800. Gold mining was carried on in the North Arcot district of Madras from 1893 till 1900, the highest yield (2,854 ounces) being ob-tained in the year 1898. The Kyaukpazat mine

down. In 1902 dredging operations were started on the Irrawaddy river near Myitkyina, and 216 ounces of gold were obtained in 1904; the amount steadily increased from year to year and reached 8,445 ounces in 1909, but fell to 5,972 ounces in 1910 increasing again to 6,390 ounces in 1911 and being in 1913, only 5,393 ounces. The gold craze, which was prevalent in Rangoon a few years ago, has disappeared as suddenly as it sprang up. The Burma Gold Dredging Company holds a right to dredge for gold in the bed of the Irrawaddy river and notwithstanding the obstacles encountered from time to time in the shape of floods, etc., the company has so far been fairly successful in its operations. The small quantity of gold produced in the Punjab, the Central Provinces, and the United Provinces is obtained by washing. Gold washing is carried on in a great many districts in India, but there is no complete record of the amount obtained in 1900, the highest yield (2.854 ounces) being obtained in the year 1898. The Kyaukpazat mine in Upper Burma was worked until 1903, when the pay chute was lost and the mine closed tics available for the whole of India are:

Gold Produced in India in 1912.

				 Quantity.	Value.	Labour.
Burma— Myitkyina Katha aud I Upper Chind Hyderabad Mysore Madras Punjab United Provinces	Pakokl win	ku	 otai	 Oz. 4,994*77 15*16 58*22 16,998 561,065 7,269 147*52 590,554*92	£ 18,931 75 331 64,980 2,158,362 28,499 583 45 2,271,808	154 50 1,516 28,205 1,756 286 90 30,602

PETROLEUM.

Petroleum is found in India in two distinct; the yield from which constituted a record and areas-one on the east, which includes Assam, Burma, and the islands off the Arakan coast. Burma, and the islands off the arrange coaso.

This belt extends to the productive oil fields of
Sumatra, Java, and Borneo. The other area
is on the west, and includes the Punjab and
Baluchistan the same belt of oil-bearing rocks
being continued beyond the borders of British

Yell's 2 Berrie Off these two the contemporary India to Persia. Of these two the eastern area is by far the most important, and the most successful oil fields are found in the Irrawaddy valley. Yennangyaung is the oldest and most developed of these fields. Native wells have been at work here for over 100 years, and in 1886, prior to the annexation of Upper Burma, the output is estimated to have averaged over 2 million gallons a year. Drilling was begun in 1887. The Yenangyat field yielded a very small supply of petroleum before 1891, in which year drilling was started by the Burma Oil Company. Singu now holds the second place among the oil fields of India. Petroleum was struck at the end of 1901, and in 1903, 5 million gallons were obtained. In 1907 and 1908 the production of this field was 43 million gallons, and after a fall to 31½ million gallons in 1910 it rose to 56½ million gallons in 1912. Several of the islands off the Arakan coasts are Several of the islands of the Atakan coasts are known to contain oil deposits, but their value, is uncertain. About 20,000 gallons were, obtained from the eastern Barongo Island near Akyab, and about 37,000 gallons from Ramri Island in the Kyaukpyu district during 1911. Oil was struck at Minbu in 1910, the production for that year being 18,320 gallons which increased to nearly 4 million gallons in 1912. The existence of oil in Assam has been known for many years and an oil spring was struck near Makum in 1867. Nothing more however, was done until 1883, and from that year up till 1902 progress was slow. Since that year the annual production has been between 21 and 4 million gallons.

On the west, oil springs have been known for many years to exist in the Rawalpindi and other districts in the Punjab. In Baluchistan geological conditions are adverse, and though some small oil springs have been discovered, sttempts to develop them have not hitherto been successful.

The output of petroleum in Burma during 1913 showed a substantial increase of more than 27½ million gallons over the yield of 1912 and is the largest yet obtained, ex-ceding as it does the record output of the previous year. The output in gallons and the value in rupees during the past nine years are '

		Gallons.	Rs.
1913	 	272,865,397	1,52,86,613
1912	 	245,335,209	1,44,43,605
1911	 	222,225.531	1,30,89,345
1910	 	211,507,903	1,23,74,436
1909	 	230 396,617	1,34,90,140
1908	 	173,402,790	1.03,69,607
1907	 	148,888,002	89,93,826
1906	 	137,654,221	84,69,995
1905	 	142,063,846	88,91,907

exceeds the previous record output of 1900 by cover 134 million gallons and 73 lakhs of rupees in value. The year 1909 was a pheno-menal year in Magwe when owing to the competition of companies no efforts were spared to increase the output from the wells in this area. During the year under report no such conditions prevailed and the large increase in the output of petroleum from these fields is no doubt the result of the very rich yield from the new areas brought under operation limited liability companies work this area and their operations during the year were without exception successful.

The consumption of kerosene in India (excluding Burma) is rapidly increasing and have risen from about 79 million gallons in 1900-01 to 168 million gallons in 1911-12. The enormous increase in the output of the Burna oil fields has reversed the position held by foreign and Indian oil in the market. In 1908-09, however, the proportion of foreign oil consumed was a little higher than that of Burma oil as a result of a contraction in her shipments concurrently with a large increase in imports from foreign countries, but from 1909-10 Burma oil has regained its position. The imports of kerosene in oil in 1912 were as follows:—

					Gallons.
Burma	••		• •	••	12,540,024
Roumania			•••		2,693,800
Russia			••		7,535,184
Straits Settle	ements				3,285,841
Sumatra					612,474
United State	s of An	erica	••	:	85,684,624
Other Coun	tries		••	• •	688
		T	otal		82,352,653

Amber, Graphite and Mica.—Amber is found in very small quantities in Burma the output for 1912 being 27 cwt. valued at £179. Graphite is found in small quantities in various places but no progress has been made in mining except in Travancore, and there, owing to the diffiexcept in Invancere, and there, own to the drun-culties of working, the mine has been shut down. The outturn from it was 29,425 in 1911. India has for many years been the leading producer of mica, turning out more than half of the world's supply. In 1912 the output was 43,000 cwt., and the value of the amount exported £ 284,290.

Tin, Copper, Silver, Lead and Antimony.
The only persistent attempt to mine tin is in
Burma. The output was for sometime insignificant but rose in 1913 to 116 tons valued at Rs. 3.66,293 and 64 tons of tin ore valued at Rs. 98,345 Copper is found in Southern India Rs. 98,345 Copper is tound in southern India in Rajputana, and at various places along the outer Himalayas, but the ore is smelted for the metal alone, no attempt being made to utilize the by-products. An attempt is being made to work lodes near Panayang, in the Northern Shan States, for the production of the layer and lead and in Southern Burma Of the several officeds the most important of silver and lead, and in Southern Burma is that at Yenangyaung in the Magwe district, for antimony.

Gem Stones.—The only precious and semiprecious stones at present mined in India are
the diamond, ruby, sapphire, spinel, tourmaline,
garnet, rock-crystal, agate, cornelian, jadeite
and amberr. Amber has aiready been referred
to; of the rest only the ruby and jadeite attain
any considerable value in production and the
export of the latter has declined owing to the
disturbances in China, which is the chief purchaser of Burmese jadeite. The output of
diamonds is comparatively unimportant being
valued at £411 in 1912. The ruby-mining
industry of Burma has lately undergone a
favourable change. The average annual value
of the stones produced is but about £59,000 but
In 1912 the total value of rubies, sapphires
and spinels amounted to £69,547.

Radio-active Minerals.—The General Report of the Director of the Geological Survey of India for 1913 includes a brief report by R. C. Burton on an occurrence of pitchibende at mica mines near Singar, Gaya district, Bengal. The pitchibende occurs as rounded nodules in a pegmatite that is intrusive in mica schists. Other minerals occuring in the pegmatite are mica, triplite, ilmenite, tourmaline, and uranium ochre; whitish columbite, zircon, and torbernite have also been recorded. Of these minerals triplite is stated to be the commonest. It is associated so persistently with the pitchibende and uranium ochre that its presence is taken as an indication of the pitchibende nodules occur in a matrix of triplite; some occur in a felspathic matrix. One nodule of pitchibende weighing 36 lb. has been obtained. The pegmatite has been mined for many years for mica. As yet, not once pit has yielded up to the present about 4 cwts. of the mineral.

Iron Ore.—The output of iron-ore rose from the estimated value of about £10,000 in 1910 to £34,496 in 1911 and £47,044 in 1912. This increase was marked both in Orissa and in Singhbum, and furnishes evidence of the activity of the Tata and the Bengal Iron and Steel Companies.

Inspection of Mines.

During the year 1913 the average number of persons working in and about the mines regulated by the Indian Mines Act was 181,260 of whom 116,492 worked Enderground and 64,763 on the surface. One hundred and eleven thousand nine hundred and forty-six of the persons were adult males; 62,961 were adult females and 6,353 children under 12 years of age.

Accidents.—During the year 1913, at mines regulated by the Indian Mines Act, 1901, there were 136 fatal accidents, being an increase of 3 as compared with the number in 1912 and an increase of 6 as compared with the average number of the last five years.

These accidents involved the loss of 211 lives. This is an increase of 26 upon the number of deaths in 1912. In the report for 1912 it was stated that one accident caused 23 deaths. The year under report was a peculiarly unfortunate one as regards the large loss of life occasioned by certain accidents. Twenty-seven lives were lost on the occasion of an explosion, twenty-seven by three irruptions of water and seven by a fall of roof.

Of these 136 accidents, the Chief Inspector Mines regards (a) 60 as being due to misadventure, (b) 33 to the fault of the deceased, (c) 7 to the fault of fellow workmen, (d) 8 to the fault of subordinate officials, and (e) 28 to the fault of the management.

Very many of these accidents might have been prevented by the exercise of ordinary care and forethought on the part of both officials and men, and the Chief Inspector of Mines is satisfied that only by closer supervision and stricter discipline can their number be diminished. Such accidents result from persons passing through fences into old workings to get easily worked coal, from persons sitting in dangerous places or under roof coal at which they have just been working, from persons being struck down by falling roof and sides as they travel to and from their working places, and from disobedience to an official's orders in trivial matters.

The death rate per thousand persons employed was 1.16, while that of the preceding four years was 1.17. At coal mines only these figures were 1.39 and 1.32, and at mines other than coal 0.54 and 0.74. At coal mines in England during the ten years ending with and including 1912, the death rate per thousand persons employed varied from 1.17 (lowest) to 1.69 (highest). The death rate per million of tons raised at coal mines only was 11.96, while that of the preceding four years was 11.97. At coal mines in England during the ten years ending with and including 1912 the death rate per million tons raised varied from 4.29 (lowest) to 6.37 (highest).

Chief Inspector of Mines in India, G. F. Adams, M. Inst, C.

E. Bibliography.—Report of the Chief Inspector of Mines in India, under the Indian Mines Act (VIII of 1901) for 1913. By R. R. Simpson, M. Sc., Offg. Chief Inspector of Mines.

Industrial Arts.

"The Arts of India," wrote Sir George side India. The more noteworthy crafts Birdwood in the first lines of his book on the industrial arts of India which has now become a classic. "are the illustration of the religious life of the Hindus, as that life was already organised in full perfection under the code of Manu, B. C. 900-300." Whether that state-ment be accepted in its entirety or not, some knowledge of the religion of the Hindus is most essential to an understanding of their arts. That subject is dealt with elsewhere in this That subject is dealt with elsewhere in this book and so is the subject of caste, of which a knowledge is equally important in this connexion. But, by way of preface to a brief outline of some of the more important art industries of the country, it may be well to state what is the basis of practically the whole industrial system of India. The child learns his hereditary craft from his father or is apprenticed to a mixtri, or master-craftsman, who is often a relative of the pupil. There is no regular fee, but a small present is often paid to the owner or foreman of the shop, and in some trades a religious ecremony may take place at the time of man of the snop, and in some traces a fenj gious ecremony may take place at the time of apprenticeship. The child begins his work at a very early age; at first he is expected to undertake the menial duties of the shop and is put to cleaning the tools; later he be-cing to proform the simplest constitune of the gins to perform the simplest operations of the trade. There is little definite instruction, but the boy gradually acquires skill by handling the tools and watching the workmen at their task. As soon as he has made a little progress, the apprentice is granted a small wage which is gradually increased as he becomes more useful: and when his training is finished, he either goes out into the world or secures a place on the permanent roll of his master's shop. To the poor artisan the arrangement has this great advantage, that at a very early age the child earns his livelihood and ceases to be a burden on his parents. In former days the system answered well enough for the rude village industries which satisfied the needs of the bulk of the population, and it also succeeded in maintaining a class of workmen who dealt in metals and textile fabrics with such sense of form and colour that their work has the apprentice is granted a small wage which sense of form and colour that their work has challenged comparison with the most artistic products of the West. It has not, however, products of the West. It has not, however, enabled the Indian artisans to keep abreast with modern industrial development. Imported articles have to a considerable extent supplanted the products of home industry, the quality of Indian work has in many cases deteriorated, and the workman has neither taken due advantage of the wide openings afforded to him by advancing civilisation and trade, nor adhered rigidly to old methods and traditions. The efforts made to assist him have not as yet been attended with a great that the reserve the reserve that the reserve the reserve that the reserve that the reserve that the reserve that the reserve that the reserve that the reserve that the reserve that the reserve that the reserve that the reserve that the reserve the rese measure of success, but the potentialities of the Schools of Art and Technical Institutions are only beginning to be appreciated.

Wood-carving.

include carving as applied to architecture, furniture, and cabinet work inlaying with other woods or metals, vencering, and lattice-work. The art and industrial schools of Calcutta, Madras, Bombay and Lahore have given much attention to developing these crafts on indigenous lines, with the result that degeneration has to a large extent been prevented and a superior class of carpenters, dispersed over the country. On a smaller scale, objects are carved in sandal-wood with a minuteness and intricacy of elaboration only equalled by the results attained in ivory. As to style, there is a great variety of types throughout the country, the two chief influences on the art conception being religion and the nature of the wood used. Mahomedan and Sikh work conception being religion and the nature of the wood used. Mahomedan and Sikh work—for example, is largely constructed on a geometric basis, though in the modern Sikh works in the Hindu—grotesque animal forms or mythological subjects are freely introduced. The woods chiefly used for ornamental work are teak, shisham, deodar, sandal-wood, chony, walnut, tun, nim, Madras red-wood (sometimes called black-wood), dudhi (white-wood), red cedar, sal, babul, and others of less Importance. Deep under-cutting and sculpture are possible with teak, red-wood, and walnut; whereas shisham and deodar can be used only for low rellef work. In recent years a great demand relief work. In recent years a great demand for cheap and inferior carving—on tables and other articles alien to the Indian mind—has sprung up in Europe and America and has been met by the export of vast quantities of poor work, for which the soft woods only are used while bone takes the place of ivory in inlaying. "In these abominations," writes Sir George Watt in the catalogue of the 1905 Exhibition at Delhi, "it is thought sufficient proof of an Indian character to introduce some parties of a measure or temple and that relief work. In recent years a great demand some portion of a mosque or temple, and that being done all attention to such details as suitability of design or nature of ornamenta-tion can be disregarded."

Metal Work.

The purely indigenous or village metal manufactures are perhaps, after those connected with wood, the most important of all the art industries of India. Most of the household utensils are made of metal, which thus to a large extent take the place of the porcelain large extent take the place of the porcefain and glass of Europe. Brass is most frequently employed by Hindus and copper by Malion-medans, the copper vossels being generally tinned for safety. Every large village has its copper and ironsmiths and also its jeweller, and in some instances these local industries attain in some instances these local industries attain considerable magnitude, as is the case with the manufacture of copper and brass vessels at Srinagar, Benares and other towns. The making of ornamental bowls, vases, trays, and other European articles constitutes an important industry in many places, and a variety of pro-cesses is of course employed such as enamelling, damascening, and colouring either with lac or paint. The provinces of India have each two or three centres noted for their copper or brass ware, Indian wood-work, which must come first in importance in the art products of the country, shows great diversity, and many points of interest, and the wood-carvers of the country, have gained a well-deserved reputation outeither of those are the perforated and repousse copper work of Lucknow, the best products of Bombay, Poons, and some of the southern India centres, and the gongs and idols made in Burma. Ordinary domestic utensils, which are free from ornamentation so that they can be readily scoured, and the more elaborate implements used for religious ceremonials are among the most and beautiful interesting metal wares in India: but they vary in style and finish through-out the country. Sir George Watt writes:—

"The copper or brass vessel of most general use by the Hindus is the lota, a globular melon-shaped vessel flattened from the top and having an elegantly reflexed rim by which it is carried suspended between the fingers and thumb. In shape this doubtless originated from the partially expanded flowers of the sacred lotus, partially expanded nowers of the sacred lottis, its name thus coming from the same root as the Latin lottis, "washed," and the English lotion "a wash". With the Mahomedans the lota (or tonti) has been given a spout because the Quran ordains that a man shall perform his subultless in wording matter heart. form his ablutions in running water, hence the water when poured out of the tonti is con-sidered to be running water. It is carried by holding the rim at one side and it thus dangles instead of being (as with the Hindus) suspended from the middle of the hand. The shapes of the lota and tonti and their respective uses have given birth to two widely different forms have given birth to two widely different forms of both domestic and decorative metal work characteristic of India. For example, the spout and the use of copper, more especially when tinned, has originated a whole range of forms and designs not only quite unknown at the little testing that the little testing the state of the stat to the Hindus but next to impossible with the materials permitted by their religion." It is scarcely possible any longer to divide the gold and silver plate work of India into four of the materials and the scarce distributions of the materials. or five well defined classes distinguished by the style of ornamentation, as the workers in these metals have been quick to adopt a variety of European models. In Madras mythological medallions, in imitation of the encrusted style of Southern India art, still form the character-istic feature of much of the silver work. In istic feature of much of the silver work. In Bombay two distinctive forms survive, the Poona and Kutch: of these the former is a deep form of repoussé, the silver usually being oxidised, the latter has a fioral design of European origin in shallow repoussé. Rangoon work is generally known by the frosted surface of the silver and Moulmein work by the silver than a silver and moulment work by the silver and th being either polished or burnished. But in almost every case the design of one province is copied in another, and the best forms of ornamentation, such as the shawl pattern of Kashmir, have fallen into disuse either because of the labour involved in their production or because the smiths have found by experience that it is just as easy to sell inferior work.

Great varieties of form and style are to be seen in the arms and jewellery made in India. Sir George Birdwood in his "Industrial arts of India" says that "the forms of Indian jewellery as well as of gold and silver plate, and the chasings and embossments decorating

style of punched brass, which is as a rule bad in design and execution, and the engraved or repoussé work in polished brass that comes in large quantities from Jaipur. Better than either of those are the perforated and repouts either of those are the perforated and repouts and the polished brass that comes where of Luckrow the best products are the perforated and repouts the perforated and repouts the performance of the perform modern is to be seen.

Shawl and Carpet Weaving.

It is only in Northern India (more especially in Kashmir) that the spinning and weaving of wool extends to the production of highlying of woof extends to the production of nighty-finished and artistic goods. Scattered here and there all over the country are hand-loom factories where coarse blankets, carpets, and other fabries are produced. This indigenous wool industry is most important in the Punjab. wool industry is most important in the Funjab. The great centre of shawl production is Kashimi; the industry has also been carried on for many years in parts of the Punjab, where it was introduced by colonies of Kashmir weavers. France was for many years the chief foreign market for Kashmir shawls, and the trade which wes damaged also by the the trade, which was damaged also by the competition of cheap imitations produced at Paisley, never recovered from the effects of the Franco-German War. The bulk of the the Franco-German War. The bulk of the Kashmir shawl-weavers became carpet-weavers or agriculturists. The latest report from the Punjab regards the case of the genuine shawl industry as "almost hopeless." Carpet-weaving is carried on in various parts of the country. It is one of the many industries which is said to have been ruined by modern civilisation, and in so far as many carpet factories in India are turning out an inferior article, according to designs furnished by dealers in Europe, this is correct. But it is wrong to ascribe the cheapening of the caste weaver's product and his increased output to underselproduct and his increased output to undersel-ling by those jails in which the weaving of carpets has been introduced as an occupation for prisoners. On the other hand the jails, and especially that at Yerrowda, near Poona, have set a high standard by conserving old designs, by using good material, and by avold-ing the use of aniline dyes. Since the London Exhibition of 1851 a considerable export trade Exhibition of 1851 a considerable export trause in Indian pile carpets has been created. Amritsar, which caters for the American market in particular, is the most important carpet-weaving centre in India, but there are factories in many other places in Northern India, Rajputana, Central India and the United Provinces. In the lower provinces the industry hardly exists. Cotton and woollen carpets in other than pile stitch are made all over India. They than pile stitch are made all over India. They are known as dari (a rug) and shatranji (a carpet) and are made in great variety. The poorer classes of Mahomedans generally use the cotton manufactures as praying carpets.

Apart from woven mats or carpets there is manufactured a great variety of so-called mats made from grass and other materials such as aloe, bamboo, coir, date and other palm leaves. aloe, bamboo, coir, date and other palm leaves. Mats or rather screens (tatties) made of the sweetly scented *Khas-khas* are hung in front of doors, ect., to afford shade and to cool, by evaporation, the air which passes through the moistened texture. Bamboo mats are manufactured here and there all over India, and in Bengal more especially darma mats (those constructed of reeds) are all but

universally used in house-construction. The stones and silk, make a great number of classifitraffic in darma mats must, therefore, be very great, and give employment to a far larger number of persons than can be learned from published statistics. In some of the jails aloe-fibre mats are produced and find a fair market, while cane mats are not uncommon, These are formed by selected canes being placed parallel to each other and bound in position by cross-ties. They are exceptionally strong, and especially valued in public offices where there is much traffic.

Embroidery.

This is one of the most important of the art industries of India attaining its highest development in Northern India.

The stitches employed in the various kinds of work are numerous, but all have this in common that they are formed by the needle being pulled away from and not drawn towards the worker Mrs. F. A. Steel has written a description of the Punjab darn stitch, known as pulkhari, but most of the varieties still await their historian. Darn stitch is chiefly used on coarse cotton and chain stitch on silk or on coarse cotton and chain stitten on silk or woollen fabries, the former covering the textile the latter ornamenting parts of it. European demands have led to the production of large quantities of silk embroidery, in which coloured silks and gold and silver wire are complexed for curtains, table gloths and so employed, for curtains, table cloths and so on. Another common form of embroidery is what is called chikan work on some white washing material such as calico or muslin: in this the most usual form of stitch is the satin stitch combined with a form of button holing. The manufacture of lace and knit-ting have been introduced into India by mis-sionaries. "Laid" embroidery with gold sionaries. "Laid" embroidery with gold and silver wire (called karchob work because it is done on a frame) is common throughout the country in different forms. The wires

cations of this work possible. A rough divi-sion between the two forms is that the massive kind is called zardozi and the light and graceful kamdani.

Ivory.

The carving and inlaying of ivory are still; though perhaps in diminished importance, arts much practised in India. The best material used is African ivory, which is whiter and of closer grain than the Indian, but Sir George Watt has pointed out that the "fish tooth" ivory, or Mammoth ivory of Siberia, is also used by Indian workers. The centres of the craft are Delhi, Murshidabad in Bengal, Mysore, Travancore, and Moulmein. A cu-Mysore, Travancore, and Moulmein. A curious fact about this industry is that, though carving is generally an hereditary occupation, there is no special caste identified with the craft like that of the silver smiths, and this is held to show that the industry as it now exists is of comparatively modern origin. Its development in recent times is due to the desire of sightseers in India to have "something Indian" to take away with them in an easily portable form. But some of the best work is still of great beauty and fine workmanship. The carving of horns and shells may possibly be counted as variations of this art.

Statuary.

Part of that division of handicrafts which is vaguely connoted under the term "fine arts" is the subject of an article elsewhere in this book. Apart from painting, it is not a very considerable division. Statuary; except the wide-spread production of statuettes (in stone, wood, or east metal) of mythological subjects, is little practised. Various brass workers are expert in reproducing in miniature scenes of Indian life and animals of the country, and at Lucknow some realistic of the country, and at Lucknow some realistic are drawn in a number of centres, particularly terra cotta statuettes are produced. Where in Lahore, Delhi, Agra, and Benares: the ever wood-carving is practised, and particularly details of wire drawing and the form of stitch, in Burma, statuary in that material is turned together with the combination with precious out and is used chiefly for decorative purposes.

Fisheries.

in the modern sense of the term. Vast num-bers of the coastal population are through natural circumstances engaged in fishing, but in a great proportion of cases this means of livelihood shares their time with agriculture. Inveinood snares their time with agriculture. The Bengal Government took the important step, a few years ago, of initiating deep seafishing, by introducing a steam trawler. The undertaking did not live to see commercial development on a large scale. Special measures have also been taken by the Madras Government with more researches a least success that he had not been to the search of the se with more or less success, there being in this province a Fishery Department of Government under an Honorary Director. The inland fisheries where there are large rivers or tanks are often important in many parts of India.

Bengal.

The importance of the Bengal fisheries may be gauged from the fact that 1.6 per cent of the population is engaged in catching curing, and selling fish, a percentage which rises to 2.6 in the Presidency, Rajshahi and Dacca Divisions; moreover, large numbers of cultivators are returned as fishermen also. The waters of the Bay, the rivers, and swamps swarm with fish, and every ditch and puddle furnishes small fry to eke out the frugal diet of the people. The best salt-water fish are the bekti, tapsi, or mango-fish, mullet, pom-fret, and sole. Inland the hilsa (Clupea lisha) is found in shoals in the Ganges, while the rohu (Labeo rohita) and the katal (Catla buchanani) abound everywhere, as do also innumerable other varieties much esteemed by the Bengalis; prawns and crabs are caught in myriads. The mahseer is found in the higher reaches of the rivers which debouch from the Himalayas, and in some of the rivers of the Chota Nagpur plateau.

The Bengali is a clever fisherman. In the Bay of Bengal he practises deep-sea fishing, drying his catch ashore on stakes driven into some sandy beach. The larger rivers are rawled from a sailing boat, and the smaller streams are fished from welrs. The tanks and ditches are periodically dragged, the fish at other times being argled or caught in a castnet. Every streamlet is studded with hundreds of wicker fish-traps, while prawn cages are ubiquitous. The wonder is that any living fish escapes, so persistent and remorseless is the hunt for the finny tribe. Every other interest is subordinated to its pursuit, and not only is navigation impeded, but the drainage of the country is blocked by the obstruction of every channel and outlet.

The right of fishery in all but the largest rivers has generally been alienated by Government to private persons, having been included in the "assets" on which the permanent settlement of estates was based, but in some cases the fishery itself is a separate "estate."

In tanks the right of fishing vests in the owner or occupant; in the Bay and large rivers fishing is free to all

The fisheries in Indian waters are unorganised by pasture. Nor is this to be wondered at, the modern sense of the term. Vast numresources, even though imperfectly developed of its rivers, its estuaries and the sea board. In addition, moreover, to those actively engaged in fishing, there are 324,000 maintained by the sale of fish, so that the total number supported by catching and selling fish is very little under 1 million, or 2 per cent. of the total population. Fishing is in Bengal not considered an honourable reputation, and the ambition of fishing cases is to attain greater respectability by becoming cultivators. As it is, one in every twelve of those whose principal occupation is fishing also cultivates some land in Bengal, and one in six in Bihar and

Burma.

The fisheries of Burma are important financially and otherwise. From time immemorial the exclusive right of fishing in certain classes of inland waters has belonged to the Government, and this right has been perpetuated in various fishery enactments, the latest of which is the Burma Fisheries Act of 1905. Fishing is also carried on along the coast, but the sea fisheries absorb but a small portion of industry. Most of the fishermen labour in the streams and pools, which abound particularly in the delta Districts. The right to work these fisheries, mentioned in the enactments alluded to above, is usually sold at auction, and productive inland waters of this kind often fetch very considerable sums. River fishing is largely carried on by means of nets, and generally yields revenue in the shape of licence fees for each net or other fishing implement used. Here and there along the coast are turtle banks which yield a profit to Government. In the extreme sour the waters of the Mergul Archipelago afford "rich harvest of fish and prawns, mother-of-pearl shells and ish and prawns, mother-of-pearl shells and trochas, their substitutes, green snails and trochas, shark-fins, fish-maws, and beche-de-mer. Pearling with diving apparatus was introduced by Australians with Filipino and Japaness divers in 1893. They worked mainly for the shell, it being impossible for them to keep an effective check on the divers as regards the pearls. After about five years, when the yield of shell had decreased, they all left. The industry was then carried on by the Burmese.

Bombay.

The Bombay sea fisheries are important and give employment to numerous castes, chief of which are the Kolis. Pomfret, sole, stone, and lady-fish are sold fresh, while others, such as the bombli, are salted and dried. Large quantities of small fry are sold as manure. The palla, found in the Indus, and the maral and mahseer are the principal fresh-water

Sea-fishing is carried on by the Muhana tribe of Musalmans, who reside for the most part in hamiets near Karachi. The principal Altogether 644,000 persons in Bengal subsist fish caught on the coast are sharks, rays, and by fishing, or double the number subsisting skates. The pearl oyster is found at several places, and the Mirs conducted pearl operations on their own account. Under Britishrule, the right has been let for a small sum, but the pearls are very interior in size and quality, so that the industry has greatly declined during the last thirty years. At present practically no pearl fishing is carried on. Considerable fisheries also exist in the river Indus, chiefly for the fish known as palla, which are annually leased out by Government for about

But for a province with such a length of sea coard and with the estuary of the Indus within its borders the fishing population is singularly small. The fishing boats and appliances generally are very small and the fishermen do not go out in rough weather. The best fishing season is the cold weather months of December, January and February, and it is probable that with such a very brief season the harvest of the sea is not sufficient to support a larger population. The fishing castes frequently desert their caste occupation for others, according to the 1911 census report. When the two-groups, fishermen and fish dealers, are amalgamated there is a decrease of 9,000 in the aggregate, which can only be explained by their deserting their ancestral occupation.

The Government of Baroda, a State lying within the borders of the Bombay Presidency being desirous of introducing oyster culture into the coast districts of their State, have delegated a student to Pulicat, where the Madras Fisheries Department are engaged in similar work, and he is receiving practical instruction.

Madras.

The Madras irrigation tanks usually contain coarse fish, the right of netting which is disposed of annually. The sea-fisheries along the coast employ thousands of persons, and the salting of the catches is a very considerable industry. The development of the fisheries of the Presidency is now under investigation by Government. Fish-curing is carried on in special yards under Government supervision, and is an important industry. The report of the Madras Fishery Department for 1913-14 states that the principal operations in hand during the year were the West Coast station at Tanur for experimental curing, canning and the production of fish oil and guano; the oyster farm at Pulicat; the Sunkesula fish farm; the stocking of certain tanks; the preparation of important piscicultural projects, including the Tuticorin marine fish farm, the Nellore cap and murrel farm, the colair Lake hilss hatchery and murrel farm, the acclimatisation of tend on the plains, etc.; pearl and chank fishery; work in anti-malarial operations such as the breeding and distribution of larvicidal fish; the conservation of the upper waters of the Bhavani and Moyar on the lower slopes of the Rilgiris; the conservation and development of the trout in the Upper Nilgiris; and work by the newly appointed Oil Chemist.

At Tanur the percentage of first-class yellow "free" pearls, and have a oil now obtained averages above 50 per cent. a paper to the Linnæan Socie of the outturn. This oil was recently described of first results in this direction.

by a European buying firm as "unique" by reason of its purity, colour and slight odour. The Oil Chemist attached to the department has also given it a high technical value. The profits ordinarily obtainable may be gauged by the fact that as against the single factory of 1908-09 there were at the close of the year no less than 211 private factories in Malabar and South Canara, the former district having two-thrids of the number.

The quantity of fish guano (that is, the dried product obtained from the boiled fish) from this part exported by sea alone increased—notwithstanding the shortness, etc., of the season—to 4,720 tons, as against 1,872 in the previous year. The exports by read and rall are not known. The above weight of guano represent at least 25,000 tons of raw fish, so that the new method, due entirely to the work of the Department, is now taking an appreciable share in the fish manure trade, while the olis represents a gain hitherto lost. The oil export by sea were 1,511 tons, of which above half went to Germany. The guano is so greatly in demand in Ceylon, Japan, etc., that unfortunately it does not remain in the country to fertilise Indian crops. It is for the Agricultural Department to assist in retaining this valuable fertiliser for Indian fields.

Fish meal or scrap is very largely used in estern countries as food for cattle, poultry, etc. Correspondence ensued in 1913 with the College of Agriculture at Colmbatore and a half-ton parcel of lightly salted and dried lean sardine was sent to the College in April, 1913. The experiments conducted there are said to have been very successful. The success or otherwise of the food turns largely on the question of price, which is very variable.

In 1912-13 instructions were sent out from Cornwall to treat fat sardines as plichards, viz., to cure and harden the ungutted fish by several weeks in heavy sait (1 lb. sait to 3 of fish) and then to submit them to pressure in barrels when much of the oil is extracted, and the fish remain as a hard mass in the barrels. These are largely exported to Italy. It was found that the method was successful and a very good oil was obtained.

An inspection of the Palk Bay waters (between India and Geylon) near Tondi resulted in the discovery of a fairly mature bed of oysters, estimated at twenty millions in number. The fact is remarkable because no pearl fishery or pearl oyster bed has ever been known before in the Palk Bay, which is north of the Pamban channel, all lisheries having hitherto taken place to the south in the Gulf of Manaar, where alone pearl oyster beds have been worked from time immemorial. There was drawn up during the year a scheme for cultivating the pearl oyster under controllable conditions in a regular farm, and for inducing the growth of pearls, both attached and free, in these controlled oysters. From Japanese facts it is aimost certain that the farm will be very lucrative, even if only "attached" pearls are grown, but the Department are sanguine of success in inducing the growth of the more valuable "free" pearls, and have already forwarded a paper to the Linnean Society with specimens of first results in this direction.

Tata Iron and Steel Co., Ltd.

The Tata Iron and Steel undertaking is the greatest of the modern industrial enterprises in India and will rank with the large concerns of the kind in Europe and America. This gigantic project owed its inception to the genius and enterprise of the late Mr. Jamsetjee Tata. of the firm of Messrs. Tata Sons & Co. Before the formation of the Company the best brains of Europe and America were utilised in examining into the possibility of establishing in India a great iron and steel industry on a paying basis, and no efforts were spared to tender the investigation as thorough as possible. No less than Rs. 5,50,000 were spent in the investigation as thorough as possible. No less than Rs. 5,50,000 were spent in the investigation before Messrs. Tata Sons & Co. established to their satisfaction that such works could be erected in India with every reasonable prospect of success. The site eventually fixed upon was at Sakchi, a village in the Singhbhum District of Chota Nagpur, some two miles from the station of Kalimati, on the Bengal-Nagpur Railway.

Within reasonable distance of Sakchi, which bids fair to become the Pittsburg of India, very large deposits of high grade iron ore were discovered in proximity to coal of a suitable coking character for the manufacture of pig iron at a very low figure. Two rich fields containing very large supplies of this ore were secured on suitable leases by Messrs. Tata Sons & Co., one situated in the state of Mourbhanj and the other in the Rajpur district, the latention being to limit operations for the present to the Mourbhanj hills, in which 7,000,000 tons of ore had been proved to exist on the lower ridges alone. Numerous analyses have proved this ore to contain on an average over 60 per cent. of metallic iron. The royalties payable under the leases, based on an annual output of 200,000 tons, average 2:625 annas per ton for the succeeding 30 years. These ore beds are some 40 miles by rail from the site of the company's works, and the ore is delivered at the rate of about Rs. 2-4-0 per ton.

Messrs. Tata Sons & Co. received from the Company in full settlement for the transfer of all mining rights, concessions, leases, etc., which they had acquired, and in full settlement of all expenses of investigation incurred by them prior to the formation of the Company, 20,000 fully paid-up Ordinary shares of Rs. 75,00,000 and in addition a lump sum payment of Rs. 5,25,000 in cash. In addition to these payments the syndicate of gentlemen who were instrumental in the actual formation of the Company received as remuneration for their services 1,300 fully paid-up Ordinary shares, equivalent to a payment of Rs. 99,750.

Sakchi Works.

The Company's works are designed for an annual output of 120,000 tons of pig iron, and the conversion of 85,000 tons thereof into 72,000 tons of finished steel. The average imports into India of iron and steel of the classes which it is intended to produce amount at the present time to approximately 450,000 tons per annum, so that the company has at

its doors a market largely in excess of its present productive capacity. In addition to the sale of its manufactured products, it is hoped that a further source of revenue may be found in the export of a portion of the company's extensive deposits of high grade ore, which can be placed f. o. b. at Calcutta at the very moderate cost of Rs. 4-2-0 per ton approximately. On all ore sold as one or exported, Messrs. Tata Sons & Co. are entitled to a royalty of annas a ton. The company further possesses considerable manganese properties at Ramrama in the Central Provinces, which will shortly be connected up by rail with the Bengal-Nagpur Railway, from which it is hoped to secure a considerable revenue.

The following concessions were granted by the Government of India to the Company:—

- (1) The purchase by the State of 20,000 tons of steel rails annually for a period of ten years, subject to the condition that the rails comply with the Government specification and that the prices be not more than the prices at which similar rails could be delivered c. i. f. if imported into India.
- (2) A reduced rate of 1-25 of a pie per maund per mile, equivalent to '15 of an anna per ton mile, on all materials and plant required for construction, and on all raw material to the works, subject to a minimum mileage charge and to revision at the end of ten years. The reduced rate has also been made applicable to all finished products and bye-products despatched for shipment from Calcutta.

The entire cost of the works, inclusive of the purchase of mining rights, collieries, and all charges incurred in the construction of the town of Sakchi, for the housing of the small army of the Company's employees, was put down at Rs. 2,40,00,000, and it was estimated that on the average prices ruling during the ten years 1896 to 1905 the manufacturing profit, assuming a sale of 35,000 tons of pig iron and 72,000 tons of finished steel, would, after meeting working expenses, depreciations, etc., amount to Rs. 24,15,000. This sum, it was calculated, would, after meeting interest on debentures and commission payable to the Managing Agents, enable the Company to pay the stipulated dividends of 6 per cent. on the preference capital, 8 per cent. on the deferred capital, and 25 per cent. on the deferred capital, and leave a surplus of approximately Rs. 7,15,000 for distribution in equal shares between the ordinary and the deferred capital.

Early Operations.

The Company started operations in August, 1907, and the construction and equipment of the work were regarded as practically completed by the end of January, 1913, at a total capital outlay on that date of Rs. 21,00,000.

The blast furnaces worked well from the start and turned out pig iron of excellent quality. The steel furnaces gave a considerable amount of initial trouble, but these difficulties have been completely overcome, and the directors anticipate that there will be no difficulty

in producing an output of 7,000 tons a month of steel, which will bear comparison with good British steel. Numerous orders for the Company's manufactured products were early reported to be coming in from all parts of the East, the largest customer being Japan.

The Company was registered on 26th August The Company was registered on 26th August 1907. The Directors are Sir D. J. Tata, Kt. Tata Sons & Co.) Special Director, Chairman; Sir Sassoon David, Bart. (Sassoon J. David & Co.), Sir Cowasjee Jehangir, Bart. (Sir J. Cowasjee Jehangir & Co.), Sir Vithaldas Damodher Thackersey, Kt. (Thackersey Moolji & Co.), Mr. Gordhandas Khattau (Khattau Muckanji & Co.), The Hon'ble Sir Fazulbhoy Currimbhoy. Engaling Kt. (Currimbhoy. Engaling & Co.) & Co.), The Hon'ble Sir Fazulbhoy Currimbhoy Ebrahim, Kt. (Currimbhoy Ebrahim & Co.), Mr. Narottum Morarjee Goculdas (Morarjee Goculdas & Co.), Mr. M. A. Tana (of Bhavnagar State), Mr. C. V. Mehta, (Vijbhucandas Atmaram & Co.), Sir Shapurji B. Broacha, Kt. (Tullock-chand and Shapurji) (Debenture Director), Mr. R. D. Tata (Tata Sons & Co.), Mr. A. J. Bli-moria (Tata Sons & Co.) (Special Director). Managing Agents—Messrs. Tata Sons & Co.

The following figures explain the financial arrangements of the Company :-

Capital authorised and issued-Rs. 2,31,75,000. Ordinary capital—Rs. 1,50,00,000. Preference capital—Rs. 75,00,000. Deferred capital—Rs. 8, 6,75,000. Capital subscribed on the 30th June, 1914—Rs. 2,15,57,700. Ordinary capital—Rs. 1,34,00,250. Preference capital—Rs. June, 1914—Rs. 2,15,57,700. Ordinary capital—Rs. 1,34,00,250. Preference capital—Rs. 72,82,450. Deferred capital—Rs. 6,75,000. Amount called up Rs. 2,30,80,575. Ordinary shares, Rs. 1,49,46,675. Preference shares, Rs. 74,58,900. Deferred shares, Rs. 6,75,000. In addition, Debenture capital to the extent of Rs. 60,00,000 was issued.

Present Position.

The eight report of the Tata Iron and Steel Company, issued in November 1914, showed a net profit during the year ending 30th June. 1914, amounting to Rs. 22,63,779-12-3, which with the sum of Rs. 71,298-8-10 brought forward from the preceding year's account, made a total sum of Rs. 23,35,078-5-1. Dividend was paid on Preference shares for the twelve months ending 30th June, 1914, at the rate of six per cent. per annum less income-tax, and on Ordinary shares at the rate of 6% per annum. The report stated that arrangements have been made for the erection of bye-product recovery coke ovens for the production of additional coke, and for certain very necessary additions and alterations in some departments of the Works. Improvements were effected in the quality and out-put of steel during the year. Owing to the outbreak of War between Great Britain and Germany, it was at first feared that the German crew employed at the Steel Works of the company at Sakchi, would leave their posts to return to their country. But it was possible to retain the entire German crew at the Works by permission of the Government of India.

During the year exploration work has been carried on in various parts of India with the view of making the company independent

anticipated that the company will be able to have magnesite bricks for the open hearth steel furnaces manufactured in India. An engineering party has been engaged during the year in the completion of the Mourbhanj iron ore surveys and in a calculation of the tonnage available in the first three deposits owned by the company. Additional test pits have been sunk and revised figures at Gurumaishini alone indicate the existence of 50% more Iron ore than was originally calculated.

Between three and four hundred tons of Fluorspar are used annually in the manufacture of steel. Heretofore this material has come from Europe. The company are now investigating deposits in Rajputana which give promise of supplying our requirements of this material.

The annual consumption of fire-bricks imported from Europe has been approximately 1½ million. Efforts have been directed to increase the consumption of local bricks and decrease imported bricks. Quite recently the company secured favourable prices from Japan on silica bricks and are hopeful of material economy in this direction. Deposits of fire-clay and of silica have been examined and analysed with the view of assisting local manufacturers in making the desired quality and it is probable that in the near future the company will enter into the manufacture of their own fire-bricks. The company are preparing to utilize blast furnace, a waste product, in the manufacture of slag-bricks by mixing granulated slag with lime. These bricks are estimated to cost about half of the present price of red brick and can be used for all ordinary purposes. The utilization of another bye-product of the Company has been under in-vestigation, viz., the basic slag of the open health furnaces. Owing to the low perceut-age of phosphorus in the company's pig iron, their basic slags do not contain the usual high percentage of phosphorus, but they contain enough to be of some value as a fertilizer when properly ground and prepared for the soil.

During the past year there has been very great depression in both European and American markets, but more particularly has this been the case in Japan, which is one of the company's largest consumers of pig iron. The price of pig iron was fair at the commencement of the year, but constantly dropped until November, reaching its low point and practically keeping at this level until the end of the fiscal year. The company have added Scotland, Italy, and the Philippine Islands to the list of countries to which their products are being shipped.

The Chairman of the company stated at the annual meeting in November 1914: "So far the war has not affected us prejudicially; on the contrary to a certain extent it might be said that the stoppage of imports of iron and steel goods from Europe has given an impetus to our products which are being more actively inquired for from many remote parts of this country.... The war has taught us one lesson, namely, to endeavour to be self-contained view of making the company independent of European supplies.

An area containing magnesite and chromite are on the way to make our works more self-in Mysore State has been taken up and it is relant than bitherto. Fortunately the war

has so upset the occan freight situation that it is not possible for our buyers abroad to make fresh purchases of our products, seeing that we are unable to promise regular shipments even against existing orders but we are trying in various directions to minimise the interruption to the regular movement of our products."

The daily average number of employees, labourers at Gurumaishini; 1,900 men and women, was—during the 1st half 1,000 at Choitodih and Bhelatand.

year, 9,507; during the 2nd half year, 7,642 The number of European covenanted hands is 135, and the number of local European employees is 50. The balance of the labour employees is 500. And a statement of the labour employed at Sakchi mentioned above, the Company gives employment to approximately 2,200 labourers at Gurumaishini; 1,900 at Panposh

Bombay Hydro-Electric Scheme.

The Tata Hydro-Electric Power Supply any qualified person to be an alternate Director Company, Limited, was founded in November, during his absence out of India. 1910, with the friendly encouragement of the Bombay Government, to exploit the possibilities of the Western Ghats, 50 miles distant from Bombay, with their heavy and unfailing monsoon rainfall, in order to provide a great supply of electric energy to the City of Bombay, where the great and increasing industrial developments offer a large field for its use. The company was formed primarily to acquire and work the concession and license for the supply of electricity in Bombay conferred upon Messrs. Dorabij Jamsetji Tata and Ruttonji Jamsetji Tata by the Government of Bombay in March, 1907. The license applies to the town and Island generally, but excludes every can-tonment, fortress, arsenal, factory, dockyard, camp, building or other place in the occupation of Government for naval or military purposes. The license, including all rights and concession incidental to it, was transferred to the company for the sum of Rs. 12,50,000 in 1,250 fully paid up ordinary shares of the company.

Capital authorised.—Rs. 2,00,00,000. (Ordinary shares—Rs. 1,00,00,000. Preference shares—Rs. 1,00,00,000.) Capital issued—Rs. 1,60,67,000. (Ordinary shares—Rs, 87,48 000. Preference shares—Rs. 73,10,000.) In addition, debenture capital to the extent of Rs. 60,00,000 has been issued.

The qualification of every Director of the company, the Special Directors and the debenture Director is the holding of shares in the company to the nominal value of Rs. 30,000. Messrs. Tata Sons & Co., the Managing Agents of the company, are appointed as such for a term of 18 years, from the date of the registration of the company, and it is provided that during such time as they are Managing Agents, during such time as they are Managing Agents, one member of their firm shall be ex-officio, a Director of the company and shall also be ex-officio the Chairman of the Directors. Further, so long as Messrs. Tata hold shares in the capital of the company to the nominal value of Rs. 1,00,000,00, they have the right to appoint a second Special Director whether a member of the company to the second Special Director whether a member of the company to the second Special Director whether a member of the company to the second Special Director whether a member of the company to the second Special Director whether a member of the company to the company t of their firm or not. Further, every share-holder of the company holding in his own right holder of the company modung m ms own rights shares to the nominal value of Rs. 10,00,000 has the right to appoint a Special Director, to remove such Director and to appoint another in his place. Similarly, the debenture holders have the right to appoint a Director, or remove the Director of the appoint another in his such Director, or to appoint another in his place. A Director who is out of India may, with the approval of the Directors, appoint shown by the official reports of the Company

during his absence out of India.

The following are the present Directors:— Sir D. J. Tata, Kt. (Tata Sone& Co.), Chairman; Sir Sassoon David, Bart. (Sassoon J. David & Co.), Sir Shapurji B. Broacha, Kt. (Tullockchand CO.), SI Shapurij B. Broacha, Kt. (Tullockchand & Shapurji), The Hon'ble Mr. Lalubhai Samaldas, O.I.E., Mr. M. A. Tana (of Bhavnagar State), Mr. A. N. Datar (of Baroda State), Mr. A. N. Datar (of Baroda State), Mr. H. J. Bhabha (late of Mysore State), Mr. Ratan Tata (Tata Sons & Co.), Mr. B. D. Tata (Tata Sons & Co.), Sir Vithaidas Damodar Theolograp V. F. Thackersey, Kt. (Thackersey Mooljee Sons & Co.), Mr. Narottam Morarjee Goculdas & Co.), Mr. A. J. Bilimoria Tata Sons & Co.).

The company's works are approaching completion as is shown in the detailed report published below. The hydro-electric engineering works in connection with the project are situated at Lanovia, above the Bhor Ghat, and near Karjat, below Khandala, where the turbine house and generating station have been built. The water storage works involved the building of two great dams—the Walwhan and Shirawta respectively—with extensive tunnelling and aqueducts, and a pipe line down the precipitous side of the Ghats. The company received applications for some 3,000 h.p. outside the limits of the Island of Bombay and accordingly decided to extend their operations so as to meet this demand, and have applied for a license for the purpose. In order additional to provide expenditure funds for the involved, the capital of the company was in 1912 increased by Rs. 25,00,000 to its present figure by the issue of 1,000 additional Ordinary shares of Rs. 1,000 each, 1,000 additional Preference shares of Rs. 1,000 each, and 500 additional debentures of Rs. 1,000 each. The Ordinary shares were issued at a premium of Ordinary Shares were issued at a premium of Rs. 100 each and the preference at a premium of Rs. 50 each, the total premium received, amounting to Rs. 1,50,000, being placed to reserve. Interest at the rate of 4 per cent. per annum is being paid, with the consent of Government, by way of dividend to shareholders of both Ordinary and Preference shares during the construction of the consent of 100 per 100 the construction of the company's works, as a charge against capital. (This payment may not extend beyond the close of the half-year next after the half-year during which the works of the company are actually com-

up to December, 1914. The dam and other works of the Lonavia Lake are sufficiently forward for practically full storage and use. The dam at Walwhan Lake is also nearly completed. The sluices have been erected. Both lakes are now being used for storage and whereas it was originally estimated that 62 per cent. of the rainfall in the catchment area would be collected, the experience of the past two monsoons shows that the proportion of rainfall running off is 80 per cent. It appears that the cool surface of the lakes, condensing the damp air, causes much heavier rain to fall from them than formerly fell on the area they occupy. The general conditions of the lakes and dams have proved completely satisfactory.

Throughout the scheme, the company have now practically finished the first portion of the construction period and they are about to enter on a period of operation. The scheme has passed the critical stage and is emerging from the ordeal with every prospect of success. The whole of the Company's available supply of power has been disposed of. The total amount of i.b.p. sold from the original installation and the Shirawta extensions amounts to approximately 50,000 Thirty-five cotton mills and three flour mills have contracted to take power from the company for a period of teyars. Cables underground to the mills have been laid for those consumers who are to take power from the original installation. The mill equipment work is also well forward. Complete motor equipments have been delivered for nineteen mills and partial deliveries have been made for several others. There will be no difficulty in utilizing current when the supply begins.

There remain many prospective buyers of electrical energy and the completion of the company's full scheme, calculating the Shirawia Lake even up to its full height, will barely suffice to meet all such demands. Besides the Bombay cotton mills, which alone would require about 100,000 horse power, there are the transways with possibilities of suburban extensions. Then there is the Port Trust with its docks and railways in addition to the two large main line railway companies with difficult traction problems and their workshops requiring power. Modern practice has so conclusively proved the benefits of the electric drive that before long it is a safe thing to predict a large demand for electrification in Bombay amongst these consumers. This total demand is roughly estimated at about 160,000 h.p.

The full capacity of the company's present and if they look to supplying it at some future date, it is necessary for them to go further afield and find fresh sources of power which could supplement their present capacity and also serve as a "standby" in case of need. The Board having accepted this view, it was resolved to ask a responsible officer to carry out investigations with a view to finding a suitable site in the vicinity of Bombay possessing advantages similar to their present scheme. The work was entrusted to Mr. Gibbs, the General Manager of the company, and he has been successful in discovering other valleys in the Ghatts which are highly promising. With the sanction of Government, survey parties have been at work making careful investigations and the whole problem is being carefully considered by expert advisers.

FACTORIES INSPECTED UNDER THE FACTORY ACT.

Province.	Number of Factories working	Average Number of Number of Persons Hands convicted		Number of Accidents Reported.				
PROVINCE.	nanus		for breach of Act.	Fatal.	Serious.	Minor.	Total.	
Bengal Bihar and Orissa .	0.5	03,983 16,634	16	38 6	40 ³ 65	541 110	982 181	
United Provinces . Punjab	905	48,052 28,184	5 1	7 8	97 46	194 204	298 258	
North-West Frontier	. 5	235		1	1	1	3	
Province. Burma	. 280	43,784	2	9	129	247	385	
Central Provinces and	429	41,838	15	12	50	105	167	
Berar. Madras	. 203	57,309	2	4	48	256	308	
Bombay	. 585	237,344	25	20	126	1,353	1,499	
Assam	. 18	2,971		3		2	5	
Ajmer-Merwara .	. 9	11,610			20	116	136	
TOTAL IN 1911	2,248	791,944	66	108	985	3,129	4,222	

The Opium Trade.

Two descriptions of opium must be distinguished. Bengal opium which is manufactured from poppy grown in the United Provinces; and Malua opium which is almost entirely produced in certain Native States in Central India and Rajputana.

Bengal Opium.—Cultivation of poppy is only permitted under license. The cultivator to whom advances are made by Government free of interest is required to sell the whole of his production to the Opium Factory at Ghazipur at a rate fixed by Government, now Rs. 6 per seer of 70° consistency. The area licensed for cultivation has in recent years been much reduced as a consequence of the agreement between the Government, and is now restricted to the United Provinces. The following are the figures of the area under cultivation and of production

_		Average under cultivation.	Maunds of opium produced.	Number of chests made
1910 1908 1908 1907 1906	-10 - 9 - 8	354,577 361,832	44,926 67,666 61,803 71,340 93,154	23,611 36,172 33,895 51,230 44,389

At the Factory two classes of opium are manufactured:

(1) "Provision" opium intended for export to foreign countries. This opium is made up in balls or cakes each weighing 3.5 lbs., 70 cakes weighing 140} lbs. being packed in a chest.

a cnest.

(2) "Excise" opium intended for consumption in British India. This is made up in eubic packets each weighing one seer, 60 packets being packed in one chest. It is of higher consistency that "provision" opium.

"Provision" provision opium is sold by public auction in Calcuta, the quantity to be sold being fixed by Government. This ounantity has

Frovision opium is sold by public auction in Calcutta, the quantity to be sold being fixed by Government. This quantity has been reduced in recent years in accordance with the agreement with China, the figures being 15,440 chests in 1911 and 6,700 chests

Statistics of Trade.

The difference between the cost of manufacture and the price realised at these sales may be regarded as the duty levied by Government:—

_	Number of chests sold.	Average price realised at auction sales per chest.	Average cost of manufactur per chest.
1910-11	37,560	2,890	525
1909-10	42,300	1,612	515
1908- 9	45,900	1,383	525
1907- 8	48,900	1,350	508
1906- 7	52,800	1,390	538

The exports of Bengal opium to foreign countries have been in recent years:—

N-	umber of chests.	Value.
		Rs.
1912-13	19,824	56,956,940
1911-12.,	24,162	67,148,206
1910-11	37,121	106,139,828

Malwa Opium.—The poppy from which Malwa opium is manufactured is grown chiefly in the Native States of Indore, Gwalior, Bhopal, Jaora, Dhar, Rutlam, Mewar and Kotah. The British Government has no concern with the cultivation of the poppy, or the manufacture of the opium: but it regulates, under the system explained below, the import of Malwa opium into, and the transport through, its territories. As the chief market for Malwa opium is China, and as the States in which the drug is produced have no access to the sea, except through British territory, the British Government are able to impose a duty on the importation of the drug on its way to Bombay for exportation by sea.

No statistics of cultivation or production are available. The poppy is sown in November, the plants flower in February, and by the end of March the whole of the opium has been collected by the cultivators who sell the raw opium to the village bankers. It is then bought up by the large dealers who make it up into balls of about twelve ounces and store it until it is ready for export, usually in September or October. The opium is of 90° to 95° consistency and is packed in half chests: considerable dryage takes place in the case of new opium while transported to Bombay.

To enable Malwa opium to reach Bombay a pass from the Opium Agent, or his Deputies, is required. This pass is not granted until the duty imposed by the Government of India has been paid. This duty was until 1912 at the rate of Rs. 600 per chest: but was raised to Rs. 1,200 in that year consequent on the introduction of a system similar to that applicable to Bengal opium. Under this system the Collector of Customs, Bombay, sells the right of exporting opium to the highest bidder at monthly auction sales. On payment of the price bid and of duty at the enhanced rate the bidder is given a certificate authorising him to import opium from Malwa. The importation of Malwa opium into British India is now practically restricted to the quantity which may be exported to China. This quantity is fixed by Government in pursuance of its agreement with China, the figures being 12,100, 15,590 and 14,560 chests respectively in the calendar years 1910, 1911 and 1912.

Practically the whole of the Malwa opium exported from Bombay goes to China. There is no market for it in the Straits Settlements. A few chests annually are shipped to Zanzibar. The quantity and value of exports from Bombay in the last three years were as follows:—

	Quantuy.	v alue.
1912-13 1911-12 1910-11	11,205 chests 14,039 ;; 6,721 ;;	Rs. 5,36,11,292 6,37,99,491
	O) 1 1 1 2 19	2.12.51.703

Revenue-The revenue derived by the Gov- accordance with this agreement a further limiernment of India from opium in the last three years is as follows :-

7,521,962 5,961,278 1910-11 1911-12

1912-13 5,062,800 (Revised Estimate) 1,445,000 (Budget Estimate) 1913-14

Agreement with China.—The fluctuations in the revenue derived from opium in the last three years are directly attributable the trade conditions arising out of the limita-tion of opium exports. In 1907 being satisfied of the genuineness of the efforts of the Chinese Government to suppress the habit of consuming opium in China, the Government of India agreed to co-operate by gradually restricting the amount of opium exported from India to China. In 1908 an arrangement was concluded by which the total quantity of opium exported from India was to be reduced annually by 5,100 chests from an assumed standard of 67,000 chests. Under a further agreement, signed in May 1911, the cessation of the trade was to be accelerated on evidence being shown of the suppression of the native production of opium in China, and in affected.

tation was placed on exports to Chinese ports. The reduction of exports led to an increase in the price of the drug in China and a correspondthe price of the drug in china and a correspond-ing rise in the price obtained in India at the auction sales. For some considerable time, how-ever, in 1912 the trade in China was paralys-ed by the imposition by Provincial Governors in deflance of instructions from the Central Government of restrictions on the importation and sale of Indian opium. Stocks accumulated rapidly at Shanghai and Hongkong and the position in December 1912 had become so acute that a strong and influential demand was made on the Government of India to relieve the situation by the suspension of sales. Sales were accordingly postponed both of Bengal and Malwa opium and in order to afford the Malwa trade the most complete relief, the Government of India undertook to purchase for its own use 11,253 chests of Malwa opium which remained to be exported in 1913. The present postion is that the export trade to China is to cease in 1915. Exports of Malwa opium to China ceased at the end of 1913. Exports to countries other than China will, of course, not be directly

HIDES. SKINS, AND LEATHER.

India's local manufactures of skins and ! eather have steadily increased in recent years. Thus the exports of raw hides and skins has risen from £5,559,103 in 1908-09 to £7,845,484 in 1912-13 and the exports of leather from £2,761,169 to £3,082,498 in 1912-13.

The trade in hides and skins, as also the craft in leather manufacture, are in the hands either of Mahomedans or of low caste Hindus, and are on that account participated in by a comparatively small community. The traffic is subject to considerable fluctuations concomitant with the vicissitudes of the seasons. In famine years for instance the exports of untanned hides rise to an abnormal figure. The traffic nides rise to an adnormal neure. The traine is also peculiarly affected by the difficulty of obtaining capital and by the religious objection which assigns it to a position of degradation and neglect; it has thus become a monopoly within a restricted community and suffers from the loss of competition and popular interest and favour.

skins in six to eight hours; and these operations formerly took thirty days or as much as eighteen months. Of these changes the native tanners of India were slow to take advantage. but in spite of general backwardness the leather produced by some of the tanneries, especially those under European management, is in certain respects equal to the best imported articles. But as a result of India being slow to adopt up-to-date methods, there has been a decline in the demand for Indian dressed skins, while the demand for raw skins has increased considerably. The chief tanneries are situated at Cawnpore, Calcutta and Bombay.

Indigenous methods.--India possesses large selection of excellent tanning materials such as Acacia pods and bark, Indian sumach, the Tanner's cassia, Mangroves, and Myrabolans. By these and such like materials and by various methods and contrivances, hides and skins are extensively cured and tanned and the leather worked up in response to an immense, though purely local, demand. But the inferior quality of the leather so used by effete methods may be illustrated by the fact No large industry has changed more rapidly and completely than that of leather. By the inferior quality of the leather so used by and completely than that of leather. By effete methods may be illustrated by the fact the crome process, for example, superior leather may be produced from the strongest buffalo hides in seven days, from cowhide in twenty-four hours, and from sheep and goat (European factory) leather.

BREWERIES.

Statistics compiled from official returns show that there were, in 1912, 22 breweries in British India, of which one did not work during the year. Fifteen of these are private property and seven are owned by six joint-stock companies with a nominal capital of Bs. 26,71,000, of which Rs. 22,26,260 was paid up at the end of 1912-13. Eight of the breweries are located

Darjeeling. The largest brewery is the one at Murree, the Bangalore, Solon, Rawalpindl, Kasauli, Poons, and Mandalay, breweries standing next in the order shown. Production was largest in 1902, since when it has tended to decline, while imports of foreign beer have increased proportionately; in the year 1907, the process was reversed, internal production

Since then there has been a steady decrease in the production, while the imports, after declining up to 1911 (with a small set-back in 1910) recovered appreciably in 1912. The quantity in gallons of beer brewed in India and imported compare as follows :-

Brewed in India Imported.

1907	 	5,610,121	4,805,640
1908	 	5,185,619	4,384,938
1909	 	4,824,050	4,286,811
1910	 	4,191,493	4,354,402
1911	 	4,083,806	4,180,837
1912	 	3,849,060	4,521,260

A substantial quantity of beer produced locally is consumed by the British troops in India. In 1907 the Army Commissariat purchased some 38 per cent. of the total production and the average purchases in the five years 1903-1907 amounted to 2,633,616 gallons yearly. From the 1st January, 1908, the ontracts with Indian breweries for the supply of malt liquor to British troops have been discontinued, each British regiment being left free to make its own arrangements to obtain the necessary supply; as a result, the figures of Army consumption are no longer readily available.

WILD BIRDS' PLUMAGE.

The Bill for prohibiting the importation into England of wild birds' plumage, which was introduced into Parliament in 1913, was the occasion of a fierce controversy on the nature of the plumage traffic. But organised opposi-tion to the Bill failed to convince the public that the plumage trade was not one of great cruelty. Among well-authenticated cases from India that prove its cruelty was one from Karachi, in 1913, in which two men were fined for sewing up the eyes of birds so that they should not fight in their cages. It was stated that this was a common practice of fishermen in Sind, who breed birds and export their feathers to who breed birds and export their reathers to England. This according to The Times, is not only another apparent example of the way in which the prohibition on the export of plumage from India is notoriously evaded by snuggling into the open market of England, but shows how easily abuses might arise under any system which gave a general sanction to feather-farming. All legitimate methods of breeding birds for their plumage can be safeguarded as definite exceptions under an Act prohibiting importa-tion; and only the exclusion by law of all plumage not so specified can put England abreast of the United States and of her own daughter Dominions in the suppression of a barbarous industry.

Plumage birds.—The birds most killed on account of their plumage in India are paddy on account of their plumage in India are paddy blrds, kingfishers, bustards, junglefowl, egrets, phensants, paroquets, penfowl, and hoopoes. Perhaps the most extensively killed in the past has been the Bue Jay (Coracias Indica). The smaller Egret is met with throughout India and Northern Burma. It is a pure white slim heron which developes during the breeding season a dorsal train of feathers, which elongates and becomes "decomposed" at it is expressed, that is to say the barks are as it is expressed, that is to say, the barbs are separate and distinct from each other, thus soparate and disense from each other, this person, a which these birds are much sought after and ruthlessly destroyed. Thirty years ago the property.

exports were valued at over six lakhs in one year, but since 1895 the export trade has steadily diminished until now it is almost nonexistent

Legislation.—Indian legislation subject will be studied with interest by those. who have followed the course of legislation on this subject in other countries. Until 1887 no legislation was considered necessary in India. An Act of that year enabled local governments and municipal and cantonment authorities to make rules prohibiting under penalties the sale or possession of wild birds recently killed or taken during their breeding seasons, and the importation into any municipal or cantonment area of the plumage of any wild birds during those seasons; and local governments were empowered to apply these provisions to animals other than birds.

Afterwards, in 1902, action was taken under the Sea Customs Act to prohibit the exportation of the skins and feathers of birds, except feathers of ostriches and skins and feathers exported bona fide as specimens illustrative of natural history. Act VIII of 1912 goes much further than the previous law. It schedules a list of wild birds and animals to which the Act is to apply in the first instance, enables local governments to extend this list, empowers local governments to establish "close times," presumably during the breeding seasons, in the whole of their territories or in specified areas, for wild birds and animals to which the Act applies, and imposes penalties for the capture, sale, and purchase of birds and animals in contravention of the "close time" regulations, and for the sale, purchase and possession of plumage taken from birds during the close time. There is power to grant exemptions in the interests of scientific research, and there are savings for the capture or killing by any person of a wild animal in defence of himself or of any other person, and for the capture or killing of any wild bird or animal in bona fide defence of

GRAIN ELEVATORS.

handling of Indian grain has engaged attention

The question of adopting elevators for the elevator system, and a large mass of contem-andling of Indian grain has engaged attention porary data on the subject has been brought for some time and has assumed increased importance in the light of the railway congestion experienced in recent years and more particularly in the grain season. In the last three years great strides have been made by other been embodied in a pamphlet entitled Indian countries in the adoption or perfecting of the Wheat and Grain Elevators, by the late Mr. F.

Noel-Paton, Director General of Commercial Intelligence to the Government of India. The work gives full particulars regarding India's production of wheat, and shows that less than one-eighth of the crop is exported. It describes the conditions under which the grain is held and the risks that it runs. It is pointed out that the cultivator has no adequate means of preserving his wheat and that he is constrained to sell at harvest time: also that the prices then obtained by him are considerably lower than those usually current in later months. The constant nature of the European demand is explained and an attempt is made to gauge the probability that the enormously increased their operations in such countries.

quantities of wheat to be expected when new irrigation tracts come into bearing would be accepted by Europe at one time and at a good price, or could be economically transported under a system in which a few months of congestion alternated with a longer period of stagnation: Figures are given which suggest that in practice the effect of equipping railways to do this is to intensify the evil and so to en-gage in a victous circle. The author explains the structural nature of elevators and their , functions as constituted in other countries. Particulars are given as to the laws that govern

TRADE MARKS.

The Indian Merchandise Marks Act tions under the Act during the twenty years (IV of 1889) was passed in 1889, but its operation | ending 1912-13 has been : in the earlier years was restricted, especially in Calcutta, in consequence of the lack of adequate Customs machinery for the examination of goods. In 1894, with the introduction of the present tariff, the Customs staff was strengthened for the examination of goods for assessment to duty, and this increase enabled examination to be made at the same time for the purposes of the Merchandise Marks Act. The Act was of the Merchandise Marks Act. The Act was intended originally to prevent the fraudulent sale of goods bearing false trade marks or false trade descriptions (as of origin, quality, weight, or quantity). While the Act was before the or quantity. While the Act was before the Legislature a provision was added to require that all piece-goods should be stamped with their length in yards. In this respect these goods are an exception, for the Act does not require that other descriptions of goods should

Average of the five years

ending 1897-98 1,386 1902-03 1,411 ,, ,, ,, . . . 1907-08 1,198 ,, ,, .. ,, ,, ,, 1912-13 1,960

Detention is but rarely followed by confis-cation, and there have been only 100 such cases during the stated twenty years. Usually, detained goods are released with a fine, and this procedure was followed in 19,282 cases out of the 29,774 detentions ordered in the same period. In 10,304 cases the detained goods were released without the infliction of a fine In this period of twenty years 42 per cent. of the detentions were on account of the application of false trade marks or false trade descriptions. In 36 per cent. of the cases detention was ordered because the country of origin was either not stated or was falsely stated, and in 21 per cent. be stamped or marked, though it requires that stated or was falsely stated, and in 21 per cent. when goods are marked the marks must be a because the provisions of the Act for the stamp-correct description. The number of deten- ing of piece-goods had been infringed.

INDIAN COMMERCIAL CONGRESS.

A proposal was recently made by the Hon'ble Sir Fazulbhoy Currimbhoy for the holding of periodical conferences of representatives of the several Chambers of Commerce in India. The suggestion was taken up by the Indian Mer-chants' Chamber and Bureau in Bombay and that body forwarded to the several Chambers of Commerce and Commercial Associations a Draft Constitution of the proposed Indian Commercial Congress. The objects of the Congress are stated as follows:—(1) The Indian Commercial Congress is founded for the purpose of promoting by all legitimate and constitutional methods the best interests of trade, commerce and manufactures of the country and all cognate matters connected therewith. (2) For the matters connected therewith. (2) For the fulfilment of the objects aforesaid, the Congress shall hold its session from time to time as occasion may demand, but at least once every three years, at such place and at such date as may be determined, discuss all mercantile and industrial affairs, prepare and submit represent-

ations thereon to the Provincial Governments. or the Government of India or the Secretary of State or the British Parliament or other authorities for the removal and prevention of injurious commercial measures and the Introduction of others which may be calculated to promote the general commercial and other cognate interests of the country, and otherwise to take such action as may be conducive to the accomplishment of the objects in view. The Congress is to consist of delegates from such Congress is socialistic or delegates from such as may be recognised in that behalf by "the Congress in open session" and these delegates shall elect a Committee of Management on which proportional representation (not yet which proportional representation (not yes specified) shall be assigned to principal commer-cial centres enumerated. The President and Vice-President are to be appointed by a Special Committee appointed by the Congress in open

Weights and Measures.

were seir-contained and before roads and fair-ways opened up trade between one and the other. It is pointed out that in England a hogshead of wine contains 63 gallons and a hogshead of beer only 54 gallons; that a bushel of corn weighs 461bs, in Sunderland and 2401bs. of corn weighs 46lbs, in Sunderland and 240lbs, in Comwall; that the English stone weight represents 14lbs, in popular estimation, but only 5lbs, if we are weighing glass, and eight for meat, but 6 lbs, for cheese. Similar Universities are multipled in India by at least as many times as India is bigger than England. If we take, for instance, the maund 4 denomination of weight common all over India, we shall find that in a given city there are nearly as many maunds as there are articles to weight. If we consider the maund as he. to weight. If we consider the maund as be-tween district and district the state of affairs is worse. . Thus in the United Provinces alone, is worse. Thus in the United Provinces alone, the manud of sugar weighs 48½ seers in Cawnpore, 40 in Muttra, 72½ in Gorakhpur, 40 in Agra, 50 in Moradabad, 48½ in Saharuapur, 50 in Barailly, 46 in Fyzabad, 48½ in Shahjehanpur, 51 in Goshangunge. The maund varies throughout all India from the Bengal or railway maund of 82-2/71bs. to the Factory maund of 74lbs. 10oz. 11drs., the Bombay maund of 28lbs. which engarently engaged. maund of 74105, 1002. Hors, the Bonnoay maund of 28lbs, which apparently answers to the Forest Department maund in use at the Fuel Depot, and the Madras maund, which some authorities estimate at 25lbs. and others at 24lbs. and so on.

Committees of Inquiry.—These are merely typical instances which are multiplied indefftypical instances which are munapieu muca-nitely. There are variations of every detail of weights and measures in every part of India. The losses to trade arising from the confusion and the trouble which this state of things causes are heavy. Municipal and commercial causes are neavy. municipal and commercial bodies are continually returning to the problem with a view to devising a practical scheme of reform. The Supreme and Provincial Governments have made various attempts during 40 years past to solve the problem of universal units of weights and measures and commerce and the series of the problem of universal units of weights and measures and commerce and the series of the serie units of weights and measures and commerce and trade have agitated about the question for the past century. The Indian railways and Government departments adopted a standard tola (180 grains), seer (80 tolas) and maund (40 seers) and it was boped that this would act as a successful "lead" which would gradually be followed by trade throughthe the compare but the correctation benefit the market but the correctation to the contract of the contractance of the contra out the empire, but the expectation has not been realised.

The Government of India considered the whole question in consultation with the pro-vincial Governments in 1890-1894 and various special steps have at different times been taken in different parts of India. The Government of Bombay appointed a committee

Indian weights and measures have never out the practical impossibility of proceeding been settled upon an organised basis suitable by compulsory measures affecting the whole for the widespread fluidity of commerce and of India. The Committee stated that over the trade characteristic of the modern age. They greater part of the Bombay Presidency a vary from town to town and village to village standard of weights and measures would be in a way that could only work satisfactorily standard of weights and measures would be heartily welcome by the people. They thought so long as the dealings of towns and villages that legislation compulsorily applied over were self-contained and before roads and raillage areas subject to many diverse conditives of trade between one and the times of trade and social life would be a subject to many diverse conditions of trade between one and the times of trade and social life would be a subject to many diverse conditions of trade and social life would be a subject to many diverse conditions of trade and social life would be a subject to many diverse conditions of trade and social life would be a subject to many diverse conditions of trade and social life would be a subject to many diverse conditions of trade between one and the life of trade and social life would be a subject to many diverse conditions of trade and social life would be a subject to many diverse conditions of trade and social life would be a subject to many diverse conditions of trade and social life would be a subject to many diverse conditions of trade and social life would be a subject to many diverse conditions of trade and social life would be a subject to many diverse conditions of trade and social life would be a subject to many diverse conditions of trade and social life would be a subject to many diverse conditions of trade between the subject to many diverse conditions of trade and social life would be a subject to many diverse conditions of trade between the subject to many diverse conditions of trade and soci that legislation compulsorily applied over large areas subject to many diverse condi-tions of trade and social life would not result in bringing about the desired reform so successfully as a "lead" supplied by local legislation fully as a "lead" supplied by local registration based on practical experience. The want of coherence, savoir faire, or the means of coherence, savoir bar neonle at large pointed operation among the people at large pointed to this conclusion. The Committee pointed out that a good example of the results that will follow a good example of the results into the ast Khandesh District of the Presidency, where the District of fiter, Mr. Simocx, gradually, during the course of three years, induced the people to adopt throughout the district uniform weights and measures, the unit of weight in this case being a tola of 180 grains. But the committee abstained from recommending that the same weights and measures should be adopted over the whole Presidency, pre-ferring that a new system started in any area should be as nearly as possible similar to the

best system already prevailing there.

Proposals from England.—Suggestions have been made by the British Weights and Measures Association and the Decimal Association ciation, respectively, at different times that British weights and measures and the decimal system should be introduced. Both proposals fail to meet the special requirements set forth by the Bombay Committee. Variations of them which have been put forward by different bodies in India in recent years are that the English pound weight and the English hundredweight should be adopted as the unit of weight for all India. The argument in favour of the importation of an outside unit in this manner is that people in India will always associate is that people in india will always associate with a given, familiar denomination of weight or measure the value they have been accustomed to consider in regard to it, but that if a new weight were introduced they would learn to use it in dealing with their neighbours, without the interference of anything resembling projudice at what they minimized as a prejudice at what they might regard as an attempt to tamper with their old, traditional

standards of dealing.

Committee of 1913.—The whole problem was again brought under special consideration by the Government of India in October, 1913, when the following committee was appointed to inquire into the entire subject anew:

The Hon. Mr. S. R. Arthur, (President).

Mr. C. A. Silberrard. Mr. A. Y. G. Campbell. Mr. Rustomji Farddoonji.

The Committee assembled at Bombay on November 10th afterwards proceeding to other places to obtain the opinions of the Chambers of Commerce and leading merchants and others. The Committee are understood to have subemment of sombuy appointed a committee The Committee are understood to have sub-in 1911 to make proposals for reform for the Bombay Presidency. Their final report has not been published, but they presented in 1912 an ad interim report which has been Nothing further has been published in regard issued for public discussion. In brief, it points to the matter.

Legislation and Inspection.

The conditions of factory labour until 1913 | 12 hours' day for male adults. They also re were regulated by the Indian Factories Act of 1881, as amended in 1891. The chief pro-visions of the amended Act were Local Govvisions of the amended Act were Local Governments were empowered to appoint inspectors of factories, and certifying surgeons to certify as to the age of children. A mid-day stoppage of work was prescribed in all factories, except those worked on an approved system of shifts, and Sunday labour was prohibited, subject to certain exceptions. The hours of employment for women were limited to 11 with intervals of west empowhing to at to 11, with intervals of rest amounting to at least an hour and a half; their employment between 8 p. m. and 5 a. m. was prohibited, as a general rule, except in factories worked by shifts. The hours of work for children (defined as persons below the age of 14) were limited to seven, and their employment at night time was forbidden; children below the age of nine were not to be employed. Provision was made for the foreign of mechanisms. to 11, with intervals of rest amounting to at vision was made for the fencing of machinery and for the promulgation of rules as to water supply, ventilation, the prevention of over-crowding, etc.

Act of 1911.

The decision to undertake further legislation was arrived at after comprehensive in-quiries. An important factor in the case was the increasing use of electric light in the Bombay Mills, which radically changed the conditions prevailing when the Act of 1891 was passed and had abolished the security that operatives would not be employed for more than 12 hours would not be employed for more than 12 hours a day on the average. The question of the hours of employment in textile factories was brought into prominence by the period of prosperity that the cotton industry began to enjoy in the cold weather of 1904-05, a large number of persons operatives being regularly worked for 15 hours a day or even longer.

Owing to complete regarding the long

owing to complaints regarding the long hours worked in many mills, the Government of India in 1906 appointed a small Committee with Commander Sir H. P. Freer-Smith, R.N., late Superintending Inspector for Dangerous Trades in England, as chairman, to conduct a preliminary inquiry into the conditions of the committee in tartille forcers. The Committee labour in textile factories. The Committee recommended that the working hours of adult males should be limited to 12 hours a day; that certificates of age and physical fluess should be required prior to half-time employment and prior to employment as an adult; that night work of women should be prohibited; and that whole-time Medical Inspections should be appointed.

The conclusions of this Committee formed the basis of an investigation, extending to all factory law. This result was attributed to factories in India, by a representative Commission. This report disclosed the existence of abuses, particularly in connection with the employment of children, and the excessive impleyment of children, and the excessive knours worked by operatives generally in texilie factories. The majority of the Commission deprecated a statutory limitation of the working hours of male adults. But they recommended the formation of a class of "young persons" between 14 and 17 years of age, on the whole, well enforced. Steps have been whose hours should be limited to 12, and considered that this would indirectly secure a time inspectors of factories in India and to the basis of an investigation, extending to all

commended that the hours of work for children should be reduced from 7 to 6 hours and that the hours for women should be assimilated to those for "young persons," night work being prohibited for both classes. They re-commended that children should be certified as to age and physical fitness.

Hours fixed.

The recommendations of the Committee and of the Commission having been considered by the Government of India and the Local Governments, a Bill was introduced in July 1908 to amend and consolidate the law relating to factories, and was finally passed into law as Act XII of 1911.

The new Act extended the definition of "factory" so as to include seasonal factories working for less than four months in the year, shortened the hours within which children (and, as a general rule, women) may be employed, and further restricted the employment of women by night by allowing it only in the case of cotton-ginning and pressing factories. It also contained a number of new provisions for securing the health and safety of the operatives, making inspection more effective, and securing generally the better administration of the Act. The most important feature of the Act, however, was the introduction of a number of special provisions applicable only to textile factories. The report of the Factory Commission showed that excessive hours were not worked except in textile factories. The Act for the first time applied a statutory res triction to the hours of employment of adult triction to the hours of employment of adult males by laying down that, subject to certain exceptions, "no person shall be employed in any textile factory for more than twelve hours in any one day." It is also provided in the case of textile factories that no child may be employed for more than six hours in any one day, and that (subject to certain exceptions, among which are factories worked in accordance with an approved system of shifts) no person may be employed before 5-30 a.m. or after 7 p.m. (the new limits laid down generally for the employment of women and children). Corresponding limitations are placed on the period for which mechanical or electrical power may be used.

Factory Inspection.

The inquiries of the Factory Commission showed that the then existing system of factory inspection had not sufficed to prevent widespread evasion of the provisions of the factory law. This result was attributed to the fact that the number of full-time factory inspectors was very small, the work of inspection being to a large extent in the hands of ex-officio inspectors (District Magistrates, Civil Surgeons, etc.) who, as the Commission reported, had neither the time nor the special

the work of inspecting all the factories in India. the work of inspecting at the factories in inqua. The total strength of the staff is now 14, as the compared with 6 at the time of the Factory Commission's report. Each of the larger provinces has at least one inspector. Bombay having five. Except that in a few cases these officers have duties also in connection with the time to the connection with the contraction of the connection with the contraction of the connection with the contraction of the contraction with the contraction of the contraction with the boiler inspection, their whole time is given

increase it to a strength sufficient to cope with to factory inspection. The District Magistrate remains an inspector, ex-officio, under the new Act, and other officers may be appoint-ed additional inspectors, but it is contemplated

CURRENCY WEIGHTS AND MEASURES.

rupce, statements with regard to money are generally expressed in rupces, nor has it been found possible in all cases to add a conversion into stering. Down to about 1873 the gold value of the rupce (containing 165 grains of or one-tenth of a £, and for that period it is easy to convert rupees into sterling by striking off the final cipher (Rs. 1,000=£100). But after 1873, owing to the depreciation of silver as compared with gold throughout the world, as compared with gold throughout at worre, there came a serious and progressive fall in the exchange, until at one time the gold value of the rupee dropped as low as 1s. In order to provide a remedy for the heavy loss caused to the Government of India in respect of its gold payments to be made in England, and the travelland content that of the content of the conte also to relieve foreign trade and finance from the inconvenience due to constant and unforeseen fluctuations in exchange, it was re-solved in 1893 to close the mints to the free solved in 1893 to cross the minus to the recoinage of silver, and thus force up the value of the rupee by restricting the circulation.

The intention was to raise the exchange value of the rupee to 1s. 4d., and then introduce a gold standard at the rate of Rs. 15—£1. From 1899 onwards the value of the rupee has been maintained, with insignificant fluctuations, at the proposed rate of 1s. 4d., and consquently since that date three rupees have been equisince that date three rupees have been equivalent to two rupees before 1873. For the intermediate period, between 1873 and 1899, it is manifestly impossible to adopt any fixed sterling value for a constantly changing rupee. But since 1899, if it is desired to convert rupees but since 1808, it is a center to convert rupers into sterling, not only must the final cipher be struck off (as before 1873), but also one-third must be substracted from the result. Thus

must be substracted from the result. Thus is. 1.000=£100—‡=(about) £67.

Notation.—Another matter in connection with the expression of money statements in terms of rupees requires to be explained. The method of numerical notation in India. differs from that which prevails throughout Europe. Large numbers are not punctuated in hundreds of thousands and millions, but in lakhs and crores. A lakh is one hundred thousand (written out as 1,00,000), and a crore is one hundred takh or ten millions (written is one hundred lakh or ten millions (written out as 1,00,00.000). Consequently, according to the exchange value of the rupee, a lakh of rupees (Rs. 1,00,000) may be read as the equivalent of £10,000 before 1873, and as the equi-

As the currency of India is based upon the | be read as the equivalent of £1,000,000 before 1873, and as the equivalent of (about) £666,667 after 1899.

Coinage.—Finally, it should be mentioned that the rupee is divided into 16 annas, a fraction commonly used for many purposes by both Natives and Europeans. The anna was formerly reckoned as 1½d., it may now be considered as exactly corresponding to 1d. The anna is again sub-divided into 12 pics.

Weights.—The various systems of weights used in India combine uniformity of scale with immense variations in the weight of units. The scale used generally throughout Northern India, and less commonly in Madras and Bombay, may be thus expressed one maund 40 seers, one seer=16 chittaks or 80 tolas. The actual weight of a seer varies greatly from District to District, and even from village to village, but in the standard system the tola is 180 grains Troy (the exact weight of the rupee), and the seer thus weighs 2.057 lb., and the maund 82.28 lb. The standard is used in official reports.

Retail.—For calculating retail prices, the universal custom in India is to express them in terms of seers to the rupee. Thus, when prices change what varies is not the amount of money to be paid for the same quantity, but the quanti-ty to be obtained for the same amount of money. ty to be obtained for the same amount of money. In other words, prices in India are quantity prices, not money prices. When the figure of quantity goes up, this of course means that the price has gone down, which is at first sight perplexing to an English reader. It may, however, be mentioned that quantity prices are not altogether unknown in England, especially at a small shore where represents of cially at small shops, where pennyworths of many groceries can be bought. Eggs, likewise, are commonly sold at a varying number for the shilling. If it be desired to convert quantity prices from Indian into English denominations prices from indian into Engish denominations without having recourse to money prices (which would often be misleading), the following scale may be adopted—based upon the assumption that a seer is exactly 2 lb., and that the value of the rupee remains constant at 1s. 4d., 1 seer per rupee=(about) 3 lb. for 2s., 2 seers per rupee=(about) 6 lb. for 2s., and so on.

The name of the unit for square measurement in India generally is the bigha, which varies greatly in different parts of the country. raient of (about) £6.667 after 1899, while a core of rupees (Rs. 1,00,00,000) may similarly either in square miles or in acres. There are no publications from which a complete statistical survey of the various branches of insurance work in India can be obtained, but the official "Statements of Accounts and Abstracts of Actuarial Reports in respect of Life Assurance Companies doing business in British India," published by the Government of India, give information in regard to 73 Life Assurance Companies of which 50 are subject to all the provisions of the Indian Life Assurance Lorentz and 1000 and 1000 and 1000 are subject to all the provisions of the Indian Life Assurance Companies of the Indian Life Assurance Lorentz and 1000 and rance Companies Act, 1912, and 23 which are partially exempt from the Indian Act on the ground that they carry on business in the United Kingdom and comply with the provisions of the British Assurance Companies Act of 1909. It should be noticed that the various pension funds connected with Government services are exempt from the compliance with the Indian Act.

The oldest of the Indian Companies were established in Madras about 80 years ago: Bombay has none older than the Bombay Mutual, the Oriental and the Bombay Widows' Pension Fund which were established about 40 years ago. Life Assurance seems not to have been started in Bengal until much later, and it was not until 1906 that many Companies were established either in that Presidency or

elsewhere in India.

In his introductory note to the official publication already mentioned, Mr. H. G. W. Meikle, Actuary to the Government of India, states that the total amount of the investments and other realisable assests of Indian Companies is worth nearly 6 crores of rupees; more than two-thirds of this, however, represent the invest-ments of one Company, namely, the Oriental of Bombay.

During the period to which the accounts now published relate, ordinary Life Assurance policies for nearly 31 crores of rupees were issued by Indian Life Assurance Companies and the total sum assured under policies remaining in force at the end of the period was about 21 crores of rupees. Over three quarters of this sum was under Endowment Assurance policies which provide for payment of the sum assured at the end of a stipulated period or at the death of the Life Assured if it occur previously—thereby une Life Assured it it occur previously—thereby making provision against old age as well as against early death. A comparison of the figures with those of the previous year, so far as they are available, indicate a considerable increase both in the amount of insurances granted each year as well as in the total sums assured remaining in force at the end of the period.

In addition to the above mentioned sums a considerable number of Life Assurance Policies of the dividing society type were issued. Life Assurance business of this nature, where the sum assured is not fixed but depends on the division of a portion of each year's premium income amongst the claims in that period, either equally or in proportion to the total of such premiums paid under each, is unsound. But it is hoped that the information to be published in the future will convince all those interested of the undesirability of continuing to issue such policies. 20 Indian Companies are known Assurance. Mr. Meikle in his report points out various defects in the accounts of Indian Companies, and gives various explanation and suggestions in connection with the proper keeping of accounts.

The following is the list of British, Colonial and Foreign Companies doing business both in the United Kingdom and in India partially exempted from the Indian Act, and the classes of business, in addition to Life Assurance, transacted by them :-

. Name. Place of I office		Fire,	Marinç.	Accident.	Employers' Liability.	Miscellanc-
1. Alliance	11 11 11 11 11 11 11 11 11 11 11 11 11	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 namies in addit	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 t transs	1

⁽c) Now incorporated in the Scottish Union and National.(b) Now incorporated in the Commercial Union.

In the following list the names of the existing Indian Life Assurance Companies have been arranged according to the date of establishment under the Province in which they were established:—

Yes	ars.	Madras.	Bombay.	Bengal.	Punjab.	United Provinces, Assam, Ajmer- Merwara.
1829	•••	Madras Equitable (exempled under Section 41	of		••••	••••
1833		the Act). Madras Widows' an	d		••••	
1847		Orphans' Funds.			Christian Mutual	.,,,
1840		Tinnevelly C. M. S Widows' Fund.				
1871			Bombay Mutual		·····	••••
1874			Oriental			••••
1000		••••	Bombay Widows' Pension Fund.	••••	••••	••••
1885 1886	::	••••	Goanese Mutual	****	••••	****
1887		••••			••••	••••
1888		Mangalore Roman Catholic	P. B. & C. I. Zoroastrian	••••		****,
1889		****	Bombay Zoroastrian	••••	••••	****
1890		****			••••	••••
1891		· · · · · · · · · · · · · · · · · · ·	•,••	Hindu Provident Fund		
1892			Indian Life	****	****	••••
1893 .	.	••••	••••	••••	• ••••	Indian Empire Branch of Rechabites (United Provinces)
1894 .		••••	••••			
1895				****		

Life Insurance.

In the following list the names of the existing Indian Life Assurance Companies have been arranged according to the date of establishment under the Prvince in which they were established;—

Years.	Madras.	Bombay.	Bengal.	Punjab.	United Provinces, Assam, Ajmer- Merwara.	
1896	••••	Empire of India	••••	Bharat		
1897	••••	` 	••••	••••	••••	
1898		••••	••••		••••	
1899	••••	••••	••••		••••	
1900		••••	••••	••••	••••	
1901	••••	••••			••••	
1902		••••		` ••••	••••	
1903	Northern Circars		••••		****	
1904				••••		
1905		••••		****	••••	
1906	Coromandel ; United India	All India United	National Indian ; National Insurance.	Co-Operative Assurance		
1907	Aswini		Hindusthan Co-Operative	National Insurance and Banking.	••••	
1908	• ••••	Bombay Life	Eastern ; India Equitable .	Hindustan (Gujranwaia)	General (Ajmer-Merwara	
1909		••••	Chittagong		••••	
1910		New Bombay Presidency	Capital ; Bengal Provident	Popular	Aryya (Assam).	
1911		Asian Commercial	Star of India Universal; Imperial Guaranteed.	••••		
1912 .			Unique; Victoria			
1913 .		Industrial & Prudential Crown Western India East and West.	Light of Asia ; Provincial Life, Horse and Cattle.			

Chambers of Commerce.

Modern commerce in India was built up by merchants from the west and was for a long merchants from the west and was for a long time entirely in their hands. Chambers of Commerce and numerous kindred Associations were formed by them for its protection and assistance. But Indians have in recent years, taken a large and growing part in this commercial life The extent of their participation varies greatly in different parts of India, according to the natural proclivities and genius of different races. Bombay, for instance, has led the way in the industrial and commercial regeneration of the new India, while Bengal, very active in other fields of activity, lags behind in this one. Arising from these cirbehind in this one. Arising from these cir-cumstances we find Chambers of Commerce in Bombay, Karachi, Calcutta, Madras and other important centres, with a membership both European and Indian; but alongside these have sprung up in recent years certain Associations, such as the Bombay Indian Merchants' Chamber and Bureau, of which the membership

The London Chamoer or commerce in 1912, realising the increasing attention demanded by the economic development of India, took steps to form an "East India Section" of their organization. The Indian Chambers work harmoniously with this body, but are in no sense affiliated to it, nor is there at present any inclination on their next to eath into week. any inclination on their part to enter into such close relationship, because it is generally felt close relationship, because it is generally test that the Indian Chambers can themselves achieve their objects better and more effectively than a London body could do it for them, and on various occasions the London Chamber, or the East India Section of it have shown themselves out of touch with what seemed locally to be immediate requirements in particular matters. of touch with what seemed locally to be immediate requirements in particular matters.

A new movement was started in 1913 by the Hon. Sir Fazulbhoy Karimbhoy Ibrahim, a leading millowner and public citizen of Bombay, which promises to lead to great improvement in strengthening Indian commercial organization. Sir Fazulbhoy's plan is for the formation of an Indian Commercial Congress, which would meet once in every is for the formation of an Indian Commercial Congress, which would meet once in every two or three years, each time in a different centre of activity, and enable those who are chiefly concerned in commercial and industrial developments in India to exchange views on current questions and associate themselves in current questions and associate themselves in the pursuit of a scientifically co-ordinated commercial policy. The proposal has met with approval in all parts of India and the next step will be the summoning of the first session of the Congress.

The Indian Merchants' Chamber and Bureau The Indian Merchants Unamore and Bureau in Bombay (November, 1913) a draft constitution of a proposed Indian Congress of Commerce, which was simultaneously circulated to other commercial associations for their opinions. The proposed constitution provided for a session of the Congress "from time to time as occasion may demand, but at least time as occasion may demand, but at least once every three years." Other provisions were as follow. The Congress shall consist of delegates elected by different commercial bodies in India, an electorate of recognised and well known public bodies "such as Chambers of Commerce, Leagues, Associations and so forth" being formed in each province. Each of such bodies shall be an electorate by itself or in combination with others. itself or in combination with others. The delegates assembled in congress shall among themselves elect a committee of management representative of various parts of India and have sprung up in recent years certain Asso-ictations, such as the Bombay Indian Merchants' Chamber and Bureau, of which the membership is exclusively Indian. These different classes of bodies are in no sense hostile to one arother and constantly work in association.

The London Chamber of Commerce in 1912.

The London Chamber of Commerce in 1912 office of the Committee of Management shall, realizing the increasing attention demandated in the Congress. unless otherwise determined by the Congress, be in Bombay, where the Secretary shall also reside. The electorates of any Province where the Congress is to meet shall form a Reception Committee six months before the date fixed for the meeting of the Congress, the duty of the Reception Committee being to raise or the Reception Committee being to raise funds for the defrayal of all expenses incidental to the holding of the Congress, the proper boarding and lodging of delegates, the hire of the place of assembly, or the erection of a convenient pandal for the purpose. The Reception Committee will be entitled to charge a reasonable fee from those who avail them-selves of the boarding and lodging, provided the head office of the Congress shall be in Bombay until otherwise resolved by the Congress.

> All the Indian Chambers and Commercial All the Indian Unambers and Commercia-Associations approved the foregoing scheme, and promised their support and cooperation. The European Chambers, with one exception, approved the scheme, but expressed their inability to join. After the receipt of these opinions the Committee decided to convene a opinions the Committee decided to convene a Commercial Congress in the second week of November, 1914, and to appoint a Reception Committee. Owing, however, to the war, the Committee subsequently decided to postpone sine die the holding of the Congress.

> The following are details of the principal Chambers of Commerce and kindred bodies in India at the present time:—

BENGAL.

The Bengal Chamber of Commerce was founded in 1834. Its head-quarters are in Calcutta. Other societies connected with the trade and commerce of the city are the Royal Exchange, the Bengal Bonded Warehouse Association, the Calcutta Trades Association and the Bengal of members, Permanent and Honorary.

Merchants, bankers, shipowners, representatives of commercial, railway and insurance companies, brokers, persons and firms engaged in commerce, agriculture, mining or manufacture, and joint stock companies or other corporations, formed for any purpose or object connected with commerce, agriculture, mining or manufacture, and persons engaged in or connected with art, science or literature, may be elected as permanent members of the Chamber,

A candidate for election as a permanent member, whether an individual, a firm or a nember, whether an individual, a limit of a joint stock company or other corporation, must be proposed by one and seconded by another permanent member, and may be elected provisionally by the Committee, but that election is subject to confirmation at the next annual general meeting. The subscription to the funds of the Chamber of permanent. members residing or carrying on business in Calcutta is Rs. 20 per mensem, and that of permanent members residing or carrying on business elsewhere than in Calcutta Rs. 32 per annum. No entrance fee is charged. Honorary members are not required to subscribe to the funds of the Chamber. Officials and others indirectly connected with the trade, commerce or manufactures of Bengal, or who may have rendered distinguished service to the interests represented by the Chamber, may be elected honorary members by the Committee upon the proposal of any two permanent members whether members of the Committee or not. Strangers visiting the Presidency may be admitted by the Committee as honorary members for a period not exceeding two months on the proposal of any permanent member whether a member of the Committee or not. Honorary members are entitled to receive the last published report of the Committee, and to attend and speak but not to vote at any general meeting held during their membership, and may upon the invitation of the President, Vice-President or Chairman, as the case may be, attend under the like conditions any meeting of Committee or of any departmental committee or sub-committee.

The affairs of the Chamber are conducted by the following officers, namely, a President, Vice-President, seven ordinary members of Committee, a Secretary and Assistant Secretary and an Auditor. The officers of the Chamber, with the exception of the Secretary, Assistant Secretary and Auditor, act without remuneration. The following are the President and his Committee appointed for the year 1914-1915:—

President.—Hon. Mr. R. G. Monteath, (Mackinnon, Mackenzie & Co.) Vice-President.—Mr. F. H. Stewart, C.1.E., (Gladstone, Wyllie & Co.)

(Gnustone, wyne & cc.)

Committee,—Messrs. M. J. Calvocoressi,

(Ralli Bros.), W. E. Crum (Graham & Co.),

H. Harris, (Chartered Bank of India,

Australia and China), F. R. S. Charles

(Geo. Henderson & Co.), W. Girard (Bird

& Co.), G. C. Godfrey (Bengal-Nagpur

Railway) and C. Radellife (Turner, Morri
son & Co.).

The Secretary of the Chamber is Mr. H. M Haywood.

The following are the public bodies to which the Chamber has the right of returning representatives, and the representatives returned for the current year;—

Viceroy's Legislative Council.—The Hon'ble Mr. R. G. Monteath.

Bengal Legislative Council.—The Vice-President of the Chamber and the Hon'ble Mr. Norman McLeod.

Calcutta Port Commission.—Messrs. M. J. Calvocoressi, W. E. Crum, C. J. Kerr (Mackinnon, Mackenzie & Co.), A. C. Patterson, (Becker, Gray & Co.), S. Eustace (Kilburn & Co.) Mr. J. C. Shorrock (Geo. Henderson & Co.)

Calcutta Municipal Corporation.—Messis.
A. C. Patterson, T. R. Pratt, W. R. Rac,
(Sun Insurance Office), and Shirley
Tremearne, (W. H. Targett & Co.)

Bengal Boiler Commission—Messrs. T. Burns, (Barnagore Jute Factory Co., Ltd.), G. F. Scott, (Bengal Coal Co., Ltd.) and T. Wilson, Jessop & Co., Ltd.)

Wilson, (Jessop & Co., Ltd.)

Board of Trustees of the Indian Museum—
Mr. J. B. Lloyd, (Shaw, Wallace & Co.)

Bengal Smoke Nuisances Commission—Messrs.
John Taylor, (Clive Jute Mills Co., Ltd.)
and W. R. Steele, (Burn & Co., Ltd.)

Calcutta Improvement Trust—Mr. W. K. Dods, (Agent, Hongkong and Shanghal Banking Corporation).

The Chamber elects representatives to various other bodies of less importance, such as the committee of the Calcuta Sallors' Home, and to numerous subsidiary associations. The following are the recognised associations of the Bengal Chamber of Commerce:—

Calcutta Wheat and Seed Trade Association, Indian Jute Mills' Association, Indian Tax Association, Calcutta Tea Traders' Association, Calcutta Fire Insurance Agents' Association, Calcutta Import Trade Association, Calcutta Marine Insurance Agents' Association, Calcutta Marine Insurance Agents' Association, The Wine, Spirit and Beer Association of India, Indian Mining Association, Calcutta Baled Jute Association, Jute Fabrics Shippers' Association, Jute Fabrics Shippers' Association, Calcutta Hydraulic Press Association, Calcutta Hydraulic Press Association, Jute Fabric Brokers' Association and Baled Jute Shippers' Association

The Chamber maintains a tribunal of arbitration for the determination, settlement and adjustment of disputes and differences relating to trade, business, manufactures, and to customs of trade, between parties, all or any of whom reside or carry on business personally or by agent or otherwise in Calcutta, or elsewhere in India or Burmah, by whomsoever of such parties the said disputes and differences be submitted. The Secretary of the Chamber acts as the Registrar of the Tribunal, which consists of such members or assistants to members as may, from time to time, annually or otherwise be selected by the Registrar for the Calcuttant of the Registrar from time to time makes a list of such members and assistants.

Measurers Department controlled by a special committee. It includes a Superintendent, in the preparation of official statistical returns. Deputy Superintendent and Assistant Superintendent and the staff at the time of the last and also publishes a large number of statistical refusion for the benefit of the trade of the trade of various descriptions in addition to usual system of work for the benefit of the trade of the port is followed. The Department has its other circulars on matters under discussion.

The Chamber also maintains a Licensed own provident fund and compassionate fund and Measurers Department controlled by a special Measurers' Club. The Chamber does not assist

BOMBAY.

The object and duties of the Bombay Chamber, as set forth in their rules and regulations, are to encourage a friendly feeling and unanimity among commercial men on all subjects involving their common good; to promote and protect the general mercantile interests of this Presidency; to collect and classify information on all matters of general commercial interest; to obtain the removal, as far as such a Society can, of all acknowledged grievances affecting merchants as a body, or mercantile interests in general; to receive and decide references on matters of usage and custom in dispute, recording such decisions for future guidance, and by this and such other means, as the Committee for the time being may think fit, assisting to form a code of practice for simplifying and facilitating business; to communicate with the public authorities, with similar Associations in other places and with individuals, on all subjects of general mercantile interests; and to arbitrate between parties willing to refer to, and abide by, the judgment

of the Chamber.

The Bombay Chamber was established in 1838, under the auspices of Sir Robert Grant, who was then Governor of the Presidency, and the programme described above was embodied in their first set of rules. There are now affi-liated with the Chamber the Bombay Millowners' Association, which exists to carry out owners' Association, which exists to carry out the same general objects as the Chamber in the special interests of "millowners and users of steam and water power," and the Bombay Cotton Trade Association, which similarly exists for the special benefit of persons engaged in the cotton trade. According to the latest returns, the number of members of the Chamber is 122. Of these 16 represent banking institutions, 7 shipping agencies and comments, 3 firms of solicities. 3 firms of solicitors, 3 railway companies, 3 insurance companies, 6 engineers and contractors, 84 firms engaged in general mercantile business.

All persons engaged or interested in mercantile pursuits desirous of joining the Chamber and disposed to aid in carrying its objects into and disposed to the manying its softens must effect are eligible to election to membership by ballot. The member's subscription is Rs. 15 per month and an additional charge of Rs. 200 per annum is made to firms as subscription to the trade returns published by the Chamber. Gentlemen distinguished for public services, or "eminent in commerce and manufactures," may be elected honorary members and as such are exempt from paying subscriptions. Any stranger engaged or interested in mercantile pursuits and visiting the Presidency may be introduced as a visitor by any Member of the Chamber inserting his page in a back to be Chamber inserting his name in a book to be kept for the purpose, but a residence of two months shall subject him to the rule for the admission of members.

Officers of the Year.

The affairs and funds of the Chamber are managed by a committee of nine ordinary members, members, consisting of the chairman deputy-chairman and seven members. committee must, as a rule, meet at least once a week and the minutes of its proceedings are open to inspection by all members of the Chamber, subject to such regulations as the committee may make in regard to the matter. A general meeting of the Chamber must be held once a year and ten or more members may requisition, through the officers of the Chamber, a special meeting at any time, for a specific purpose.

The Chamber elects representatives as follow

Legislative Council of the Governor-General, one representative. The Chamber may elect anyone, but in practice they have hitherto returned their chairman.

Legislative Council of the Governor of Bombay, one representative, who may also be anyone, but is, in practice, always the deputy chairman.

Bombay Municipal Corporation, two members, elected for three years.

Board of Trustees for the Improvement of the City of Bombay, one member, elected for two years.

Board of Trustees of the Port of Bombay, five members, two and three being elected in alternate years.

Representatives on the Legislative Councils become ex-officio members of the committee of the Chamber, during their terms of office, if they are not already members.

The following are the officers of the Chamber for the year 1914-15 and their representatives on the various public bodies:-

Chairman, The Hon. Mr. Marshall Reid C.I.E., (Bombay Co., Ltd.)

Deputy-Chairman, The Hon. Mr. T. W. Birkett (Killick, Nixon & Co.).

Committee, Hon. Mr. W. L. Graham (W. & A. omnueze, Hon. Mr. w. L. Granam (w. c. a. Graham & Co.), Messrs. A. Cameron (Mackinnon, Mackenzie & Co.), L. McIlwrick (Forbes, Forbes, Campbell & Co., Ltd.), J. N. Metaxa (Halli Bros.), A Scott Smith (Mercantile Bank of India, Ltd.), L. Volkart (Volkart Bros.), and Bros.), and the Control of Agent. (Volkart Bros.) and R. Woollcombe (Agent, B. B. & C. I. Railway).

Secretary, Mr. R. E. Gregor-Pearse.

Assistant Secretary, Mr. Noel Wilkinson, B.A. Representatives on-

Viceregal Legislative Council: The Chairman.

Bombay Legislative Council: The Deputy Chairman.

law Milne (Turner, Morrison & Co.) and and trade information. D. M. Inglis.

Bombay Improvement Trust, Major H. A. L. Hepper, R.E.

Bombay Port Trust, The Chairman, the Hon. Mr. T. W. Birkett, Mr. A. H. Froom (P. & O. S. N. Co.) and Mr. W.-L. Graham, Mr. J. N. Metaxa.

Special Work.

One of the most important functions performed by the Chamber is that of arbitration in commercial disputes. Rules for this have been in existence for many years and have worked most satisfactorily. The decisions are in all cases given by competent arbitrators appointed by the General Committee of the Chamber and the system avoids the great expense of resort to the Law Courts.

A special department of the Bombay Chamber is its statistical Department, which prepares a large amount of statistical returns connected a large amount of statistical returns connected with the trade of the port and of great importance to the conduct of commerce. The department consists of eleven Indian clerks who, by the authority of Government, work in the Customs House and have every facility placed at their disposal by the Customs authorities. They compile all the statistical information in connection with the trade of the port, in both export and import divisions, which it is desirable to record. No other Chamber in India does similar

The Bombay Chamber publish a Daily Arri-THE DOINDAY CHARMET PUBLISH A DAILY ATTY VAI Return which shows the receipts into Bombay of cotton, wheat and seeds, and a Daily Trade Return, which deals with trade by sea and shows in great detail imports of various kinds of merchandise and of treasure, while the same return contains particulars of the movements of merchant vessels.

The Chamber publishes twice a week detailed reports known as Import and Export manifests, which give particulars of the cargo carried by each steamer to and from Bombay.

Three statements are issued once a month. One shows the quantity of exports of cotton, One shows the quantity of exports of coconi-seeds and wheat from the principal ports of the whole of India. The second gives in detail imports from Europe, more particularly in regard to grey cloths, bleached cloths, Turkey red and scarlet cloths, printed and dyed goods, fancy cloth of various descriptions, woollens, yarns, metals, kerosine oil, coal, aniline dyes, sugar, matches, wines and other sundry goods. The third statement is headed, "Movements of Piece Goods and Yarn by Rail," and show the despatches of imported and local manufactured piece-goods and yarn from Bombay to other centres of trade served by the railways.

The "Weekly Return" issued by the Chamber shows clearances of a large number of important descriptions of merchandisc.
A return of "Current Quotations" is issued
once a week, on the day of the departure of the English mail, and shows the rates of exchange for Bank and Mercantile Bills on England and

Bombay Municipality: Messrs. J. S. Ward- | Paris, and a large quantity of general banking

The annual reports of the Chamber are substantial tomes in which the whole of the affairs of the Chamber and the trade of the port during the past year are reviewed.

The Chamber has also a Measurement Department with a staff of twelve, whose business is that of actual measurement of exports in the docks before loading in steamers. Certificates are issued by these officers with the authority of the Chamber to shippers and ship agents as to the measurement of cotton and other goods in bales or packages. The measurers are in attendance on the quays whenever there are goods to be measured and during the busy season are on duty early and late. The certificates granted show the following details:—

- (a) the date, hour and place of measurement;
- (b) the name of the shipper;
- (c) the name of the vessel: (d) the port of destination
- (e) the number and description of packages;
 - the marks;
- the measurement; and, in the case of goods shipped by boats; (g)
- (h) the registered number of the boat:
- (i) the name of the tindal.

Bombay Millowners' Association.

The Bombay Millowners' Association was established in 1875 and its objects are as follow:-

- (a) The protection of the interests of millowners and users of steam, water and/or electric power in India;
- (b) The promotion of good relations be-tween the persons and bodies using such power;
- (c) The doing of all those acts and things which these objects may by furthered.

Any individual partnership or company, owning one or more mill or one or more press or presses, one or more ginning or other factory or factories actuated by steam, water, electric or other power is eligible for membership, members being elected by ballot. Every member is entitled to one vote for each mill which is—

- (a) owned by such member;
- (b) subscribed for according to the rules of the Association by such member and
- (c) worked by motive power separate and distinct from the motive power by which any other mill is worked.

If two or more mills are owned by any one member but are worked by one motive power, the member in question shall be entitled to one vote only in respect of the two mills.

The membership of the Association in 1914 numbered 78.

The following is the Committee for 1914 :-

Mr. Narottam M. Goculdas, (Chairman), Mr. Jehangir B. Petit, (Deputy Chairman), The Hon'ble Sir Sassoon David, Bart., Sir Dinshaw M. Petit, Bart., The Hon'ble Sir Fazulbhoy Currimbhoy, Kt., Sir Vithaldas Damoder Thackersey, Kt., The Hon'ble Mr. Manmohandas Rami; The Hon'ble Mr. T. W. Birkett, Mr. J. F.

toola Currimbhoy Ebrahim, Mr. N. G. Hunt, Mr. Cowasjee Jehaugir (Junr.), Mr. L. McIlwrick, Mr. C. V. Mchta, Mr. S. A. Nathan, Mr. N. B. Saklatwala, Mr. Dinshaw E. Wacha, Mr. C. N. Wadia, Mr. N. N. Wadia.

Mr. R. E. Gregor-Pearse, Secretary.

The following are the Association's Representatives on public bodies :-

Bombay Port Trust, Sir Vithaldas Thackersey, Kt.

City of Bombay Improvement Trust, Sir Sassoon David, Bart.
Victoria Jubilee Technical Institute, Mr.

Jehangir Bomanice Petit.

Bombay Smoke Nuisances Commission, srs. J. F. Bradbury & W. A. Suther-Messrs. land.

Indian Merchants' Chamber.

The Bombay Indian Merchants' Chamber and Bureau was established in 1907 with the following objects :-- "To encourage a friendly tollowing objects:— To encourage a friendly feeling and unanimity among commercial men on all subjects involving their common good; to promote and protect the trade, commerce and manufactures of India and in particular to promote the general commercial interests of the Presidency of Bombay; to consider and deliberate on all questions affecting the rights of Indian Merchants to represent to the constant of the c of Indian Merchants, to represent to the Gov-ernment their grievances, if any, and to obtain by constitutional methods the removal of such grievances; to collect and compile and distri-bute in such manner as may be most expedient for purposes of disseminating commercial and economic knowledge all statistics and other information relating to trade, commerce and finance, specially Indian: as well as to form and maintain a library, and generally to do all such matters as may promote the above objects in view; to arbitrate between parties willing to refer to and abide by the judgment of the Chamber; to receive and decide references of matters of usage and custom in dispute, recording such decisions for future guidance and assisting by this and such other means, as the committee for the time being may think fit, to form a code of practice so as to simplify and facilitate the transaction of business.

The Chamber has not yet taken up the work of arbitration, measurements, etc.

The following bodies are connected directly and indirectly with the Chamber, though no public body is directly affiliated to it:—

The Bombay Native Piece-goods Merchants' Association (which sends a large number of representatives);

The Grain Merchanta' Association which is a member); and

The Hindustani Native Merchants' Association (which is a member).

The Chamber elects a representative jointly

Bradbury, Mr. B. Brown, Mr. Rahim- of Trustees for the Port of Bombay, whenever it is so notified by the Government (vide Act No. 1 of 1909). The Chamber also has the right to elect a representative on the Board of the Bombay Commercial College.

Any person engaged in mercantile pursuits or interested in trade and commerce desirous of joining the Chamber is eligible for membership, there being two classes of members, viz., Ordinary and Honorary. Ordinary members shall be (1) Resident members who pay Rs. 30 annual fee and (2) Mofussil members who pay Rs. 5 as annual fee. An ordinary member also pays an entrance fee of Rs. 50 on being elected.

Gentlemen distinguished for public services or eminent in commerce and manufactures or otherwise interested in the aims and objects of the Chamber may be elected as Honorary members by a General Meeting of the Chamber on the recommendation of the Committee and as such are exempted from paying subscriptions. They are not entitled to vote at any meeting of the Chamber nor are they eli-They are, gible to serve on the Committee. They are, however, supplied with all the publications of the Chamber free of charge.

The following are the Officers of the Chamber for the year 1914-15 :-

Chairman.-The Hon. Sir Fazalbhoy Currimbhoy Ebrahim.

Vice-Chairman.—Mr. Dinshaw Edulji Watcha.

Committee.—The Hon. Mr. Manmohandas Ramji, Mr. Purshottamdas Thakoredas, Mr. Devidas Madhowji Thakersey, Mr. Narottam Morarji Goculdas, Mr. Ratansey Mulji, Sir Shapurii B. Bharucha, Hon. Mr. Lallubhai Samaldas, Mr. Chaturbhuj Shivji, Mr. Jetha-bhai Walji, Sir Vithaldas Damodar Thakersey, bhai Walji, Sir Vithaldas Damodar Thakersey, Mr. Phiroz J. Billimoria, Mr. Ravashanker Jag-jiwan, Hon. Sir Ibrahim Rahimtula, Mr. Motilal Vallabbij, Mr. Gopalji Valji Sunderji, Mr. Motilal Kanji, Mr. Mathuradas Vasanji Khimji, Mr. Sorabji Edulji Warden, Mr. Mulji Haridas, Mr. Morarji Velji, Mr. Naranji Haribhai, Mr. Jainarayan Hindumal Dani and the Hon. Mr. Fazulbhoy N. Chinoy.

Representative to the Bombay Legislative Council—Hon. Mr. Manmohandas Ramji.

Secretary-Mr. J. K. Mehta, M.A.

Assistant Secretary—Mr. M. M. Munshi, B. A. Hon. Auditor—Mr. Ardeshir Edulji Cama, of Messrs. A. C. Rice & Co., Chartered Accountant

Solicitors—Messrs. Edgelow, Gulabchand. Wadia & Co.

The Chamber publishes every month a Journal in Gujarati giving information on commercial and industrial subjects and publishing all statistics considered important relating to the trade and commerce of India.

Cotton Trade Association.

The Bombay Cotton Trade Association was founded in 1876. The objects for which it was established were, inter alia, "to adjust The Chamber elects a representative jointly with the Bombay Native Piece-goods Merchants' Association to the Bombay Legislative Council and a representative to the Board council and a representative to the Board standards of classification in the trade, to disputes between persons engaged in the cotton

acquire, preserve and disseminate useful informaction connected with the cotton interests throughout all markets and generally to pro-mote the cotton trade of the City of Bombay and India and augment the facilities with which it may be conducted." The Association had in 1914 50 shareholders and 50 asso-ciate members. Its affairs are managed by a Board of Directors, consisting of eight mem-

Chairman-Mr. T. D. Moore (New Mofussi) Company).

Deputy Chairman-Mr. J. P. Crystal (Crystal & Co.).

Members—Messrs. C. W. Breul (Breul & Co.), H. F. Busch (Bombay Co., Ltd.), H. R. Greaves, (Greaves Cotton & Co.), M. N. Hogg (Forbes, Forbes, Campbell & Co.), O. Marshall (Drennan & Co.), E. Schoen (Gaddum & Co.), and T. J. Ward (Ralli Bros.).

Secretary-Mr. R. E. Gregor-Pearse.

Native Piece-Goods Association.

The objects of the Association are as follow:-

(a) To promote by creating friendly feelings and unity amongst the Merchants, the business of the piece-goods trade in general at Bombay, and to protect the interest thereof; (b) to remove, as far as it will be within the powers of the Association to do so, all the trade

difficulties of the piece-goods business and to frame such line of conduct as will facilitate the trade; (c) to collect and assort statistics relating to piece-goods and to correspond with public bodies on matters affecting trade, and which may be deemed advisable for the protection and advancement of objects of the Association or any of them; and (d) to hear and decide disputes that may be referred to for arbitration.

The following are the office-bearers for the current year :-

Chairman-The Hon. Mr. Manmohandas Ramii.

Deputy Chairman—Mr. Gopalji Valji Sunderji. Hon. Joint Secretaries—Messrs. Purshotam Kanji and Vithaldas Damodar Govindji.

Hon. Treasurer-Mr. Kallianji Damodar.

Grain Merchants' Association.

The object of this body is "to promote the interests of the merchants and to put the grain and seeds trade on a sound footing." It is an influential body of large membership. The office holders for the current year are as follow :--

Chairman-Mr. Mulji Hirji. Vice-Chairman-Mr. Velfi Lakhamsi, B.A., LL.B.

Hon. Secretary-Mr. Shamji Shivji. Secretary-Mr. Laishanker Harprasad.

KARACHI.

The objects and duties of the Karachi Chamber are set forth in terms similar to those of Bombay. Qualifications for membership are also similar. Honorary membership is conferred upon "any gentlemen interested in the affairs and objects of the Chamber", subject to election by the majority of the votes of members. All new members joining the Chamber pay Rs. 100 entrance fee and the monthly subscriptions is Rs. 6 for any member contributing Rs. 600 to the Chamber Fund, in addition to entrance fee, and Rs. 12 without such contribution. The subscription for the Chamber's periodical returns is Rs. 5 per month. The affairs of the Chamber are managed by a committee of ten members, consisting of a Chairman, Vice-Chairman and eight members, elected at the annual meeting of the Chamber in January or immediately after. The Chamber elects a representative on the Bombay Legislative Council and three representatives on the Karachi Port Trust. There were last year 54 members of the Chamber, and 7 Honorary Members.

The following are the officers of the Chamber for the current year:-

Chairman-The Hon. Mr. M. de P. Webb, C.I.E., (Forbes, Forbes, Campbell & Co.).

Vice-Chairman-Mr. H. F. Pfister (Ralli Bros.).

& Co.), H. C. Sparke (N. W. Rallway), T. J. Stephen (National Bank of India, Ld.), L. B. Stephens (Bombay Co., Id.), S. C. Woodward (Clements, Robson & Co.).

Representative on the Bombay Legi-Council—The Hon. Mr. M. de P. Webb. Legislative

Representative on the Karachi Port Trust-The Hon. Mr. M. de P. Webb, Mr. James Kenyon Mr. J. H. Fyfe.

Secretary-Mr. E. L. Rogers.
Public Treasurer-Captain S. Mylcrist.

The following are the principal ways in which the Chamber gives a special assistance to mem-The Committee take Into consideration and give an opinion upon questions submitted by members regarding the custom of the trade or of the Port of Karachi. The Committee undertake to nominate European surveyors for the settlements of disputes "as to the quality or condition of merchandise as to the quality in which both parties desire the Chamber to do so." When two members of the Chamber do so." or when one members of the Chamber or when one member and a party who is not a member have agreed to refer disputes to the arbitration of the Chamber or of an arbitrator or arbitrators nominated by the Chamber, the Committee will undertake to commate an arbitrator or arbitrators, under the committee will apply the committee will undertake the committee will be considered to the committee will be considered to the committee will be considered to the committee will be considered to the committee will be considered to the committee will be considered to the committee will be considered to the committee will be considered to the committee will be considered to the considered to the committee will be considered to the considere Managing Committee—Messrs. J. H. Fyfe (Mackinnon Mackenzle & Co.), J. I. Murray (Ewart, Ryrie & Co.), J. Ellinger (Ellinger (Ellinger (Ellinger (Ellinger (Ellinger (Ellinger), Mohatta & Co.), James Kenyon (Sanday Patrick) certain regulations. A public measurer is appointed under the authority of the Chamber to measure pressed bales of cotton, wool,

MADRAS.

The Madras Chamber of Commerce was founded in 1886. All merchants and other persons engaged or interested in the general trade, com-merce and manufactures of Madras are eligible for membership. Any assistant signing a firm or signing per pro for a firm is eligible. Mem-bers who are absent from Madras but pay their subscriptions may be represented in the Chamber by their powers-of-attorney, as honorary members, subject to ballot. Honorary memmembers, subject to bands. Monotary members thus elected are entitled to the full privilege of ordinary members. Election for membership is by ballot at a general meeting, a majority of two-thirds of the recorded votes being necessary to secure election. Every member pays an entrance fee of Rs. 100, provided that banks, corporate bodies and mercantile firms may be represented on the Chamber by one or more members and are liable for an entrance fee of Rs. 100 once in ten years each. The subscription shall not exceed Rs. 160 per annum, payable quarterly in advance, subject to reducpayable quarterly in advance, subject to reque-tion from time to time in accordance with the state of the Chamber's finances. Absentees in Europe pay no subscription and members temporarily absent from Madras pay one rupee per month. Honorary members are admissible to the Chamber on the usual conditions. Members becoming insolvent cease to be members but are eligible for re-election without repayment of the entrance donation.

The Chamber undertakes arbitrations and surveys, the granting of certificates of origin and the registration of trade marks. One of the rules for the last named is "that no trade mark on ticket shall be registered on behalf of an Indian firm trading under a European name."

The following publications are issued by the Chamber :- Madras Price Current and Market Report, Tonnage Schedule and Madras Landing Charges and Harbour Dues Schedule.

There are 43 members and two honorary members of the Chamber in the Current year and the officers and committee for the year are as follows :--

Chairman—The Hon. Mr. A. D. Jackson. Vice-Chairman—Mr. W. B. Hunter (Bank of Madras).

Committee—Sir Hugh Fraser, Mr. Gordon Fraser, Mr. A. J. Leech, Capt. C. L. Magniac and Mr. C. B. Simpson, R.E.

Secretary-Mr. A. E. Lawson.

The following are bodies to which the Chamber are entitled to elect representatives, and the representatives elected last year:-

Madras Legislative Council—The Hon'ble Mr. A. D. Jackson.

Madras Port Trust-Messrs. Gordon Fraser, J. A. Boyson, (Binny & Co., Ltd.), A. H. Deape, (Dymes & Co., Ld.), and R. Greenhall, (M. and S. M. Railway).

Madras Municipal Corporation—Messrs. W. B Hunter, C. H. Straker (Alfred Young & Co.), and H. H. Chettle (Holland and Moss).

British Imperial Council of Commerce, London-Mr. A. J. Yorke (in Europe).

Indian Tea Cess Committee-The Hon'ble Mr. A. D. Jackson.

Southern India Chamber.

The Southern India Chamber of Commerce has its Registered Office in Madras. The objects of the Chamber are those usual for such bodies, concerning the promotion of trade, especially in the Madras Presidency, and the interests of members. Special objects are stated to be -

"To maintain a Library of books and publications of commercial interest, so as to diffuse commercial information and knowledge amongst its members.

"To establish Museums of commercial products or organise exhibitions, either on behalf of the Chamber or in co-operative with others."

There are two classes of members, permanent and honorary. The usual conditions as to eligibility for election prevail.

There are no bodies affiliated to the Chamber. The Chamber does not enjoy the right of electing representatives to any public bodies, though its members hold seats in the Madras Legislative Council, Port Trust and Municipal Corporation.

President, Rao Bahadur P. Theagarova Chettiar, B.A.

Honorary Secretaries, M.R.Ry. F. R. Muthusami Naidu Garu, B.A., and Moulana

Asst. Secretary, C. Duraiswami Aiyangar,

UPPER INDIA CHAMBER.

The Upper India Chamber of Commerce aconcerned with trade, commerce and manufactures in the United Provinces and has its registered office at Cawapore. Members are alected by the Committee subject to confirms. tion by the next general meeting of the Chamber. Honorary members are elected on the usual qualifications, but can neither serve in the Committee nor vote at meetings of the Chamber. There is no entrance fee for membership, but subscriptions are payable as follows:—A firm,

In Cawnpore necessitates payment of full rates.

The affairs and funds of the Chamber are managed by a Committee of from five to ten members, which has power to constitute Local Committees, of from four to seven members each, at trade centres where membership is sufficiently numerous to justify the step. Such subscriptions are payable as company or association having its place of business in Cawnpore, Rs. 200 a year; An individual member resident or carrying on business in Cawnpore, Rs. 200 a year; An individual member resident or carrying on business in Cawnpore, Rs. 200 a year; An individual member resident or carrying on business with the committee.

The Chamber appoints arbitration Tribunals for the settlement and adjustment of disputes when invited to do so, members of the Tribunals being selected from a regular printed list of arbitrators.

The Chamber has in the present year 62 members, and four honorary members.

The following are the officers :-

President-The Hon. Mr. H. Ledgard (Cooper, Allen & Co).

Vice-President-Mr. R. B. Biscoe (Elgin Mills Co., Ltd.). .

Members.—Mr. A. B. Shakespear, O.LE. (Begg, Sutherland & Co.), Mr. B. R. Briscoe, Mr. C. O'Malley, Mr. N. A. S. Bond, Babu Ram Narain and Mr. T. D. Edelston (Allen Bros & Co., Ld.).

Secretary-Mr. J. G. Ryan.

PUNJAB.

The Punjab Chamber of Commerce has its Vice-President—Mr. W. A. Phillip, (Nationa adquarters at Delhi and exists for the care Bank of India, Ltd., Delhi Branch.) headquarters at Delhi and exists for the care of mercantile interests on the usual lines in the Punjab, the North-West Frontier Province and Kashmir. There are affiliated branches of the Chamber at Lahore, Amritsar, Rawalpindi and Srinagar. Members are elected by ballot, the only necessary qualification being interest in mercantile pursuits. There is no entrance fee. The rate of subscription is Rs. 10 per month. The following are the Officers, Committee and Representatives on public bodies for current year :-

President-The Hon'ble Mr. James Currie, (James Currie & Co., Delhi.).

Bank of India, Ltd., Deini Branon.)

Committee.—Mr. E. Y. Barnard (Bank of Bengal),

Haji Baksh Ellahie Sahib, C.I.R. (Baksh
Ellahie & Co.), Mr. H. A. Levy (H. A. Levy

& Co.), Mr. J. G. Griffin (Delhi Elec: T. &

L. Co., Ld.), Mr. C. Bickley Roe (The

Punjab Banking Co., Ltd.), Mr. J. C.

Roberts (Gutmann & Co.), Mr. M. Thomas

(Kahn & Kahn), Mr. W. L. LaTouche

(B. B. & C. I. Railway), and Mr. N. A. S.

Bond (East Indian Railway). Bond (East Indian Railway).

Representative on Punjab Legislative Council— The Hon'ble Mr. James Currie & Co. Secretary-Mr. J. Renton Denning.

UNITED PROVINCES.

A meeting of Indians engaged or interested in the trade and industry of the United Proin the trade and industry of the United Provinces was held at Cawnpore in February, 1914, to inaugurate an Indian Chamber of Commerce for the United Provinces. Representatives of firms in Cawnpore, Benares, Allahabad, Lucknow, Fyzabad and other places were present. It was unaulmously resolved to establish a United Provinces Chamber of the Provi ber of Commerce with its headquarters at Cawnpore, and the following committee was appointed:—

President.—Rai Bahadur Lala Prayag Narain Bhargava (Couper Paper Mills, &c.)

Vice-Presidents.-The Hon. Babu Bishambhar Nath (Sri Krishna Ginning Mills) and Hafiz Mohammad Halim (Cawnpore Tannery).

Committee.—The Hon. Lala Motichanda (Benares); C. G. Chintamani (Newspapers, Limited, Allahabad); B. Alakhdhari (Oudh Cammercial Bank, Limited, Fyzabad); Babu Behari Lai (Sri Gangar Cotton Mills, Mirzapore); Lala Munnalai Dina Nath (Mirlidhar); B. Behari Lai and M. Abdul Gofor, Compressed. M. Abdul Gafoor (Cawnpore).

Secretary.—Mr. B. Vikermajit. Sixty-fi members of the Chamber were enrolled. Vikermajit. Sixty-five

BURMA.

The Burma Chamber of Commerce, headquarters at Rangoon, exists to encourage friendly feeling and unanimity among commercial men on all subjects involving their common good, to promote and protect the general mercantile interests of the province, to communicate with public authorities, associations and individuals on all matters, directly or indirectly affecting these interests, and to arbitrate between parties willing to refer to, and abide by, the judgment of the Chamber. The following are affiliated bodies :-

Burma Fire Insurance Association.

Burma Marine Insurance Agents' Association.

Rangoon Import Association.

The Chamber elects representatives to the following Public Bodies:—

Burma Legislative Council.

Rangoon Port Trust Board. Rangoon Municipal Committee, Victoria Memorial Park Trustees. Pasteur Institute Committee.

All merchants, bankers and persons engaged or interested in mercantile pursuits desirous of joining the Chamber are eligible for memberor joining the chamber are eligible for membership. Officials and others indirectly connected with the trade of the province, or who may have rendered distinguished service to the interests represented by the Chamber, may be elected by the Committee, either on their own reston or or the suggestion of the Mamber. motion or on the suggestion of two Members as Honorary Members of the Chamber. The subscription is Rs. 20 per month.

The Chamber undertakes arbitrations in addition to its ordinary work. It does not publish any statistical returns.

The following are the Officers, Committee

and Representatives on public bodies for the

current year:—
Chairman—The Hon'ble Mr. B. J. B. Stephens (Bombay-Burma Trading Corporation, Ltd.)

Ltd.)

Yiee-Chairman—Mr. Jas. Wood (Bullock Brothers & Co., Ltd.)

Committee & Co., Ltd.)

Committee & Messrs. J. A. Polson, E. O. Anderson, C. P. Hill, A. W. Binning (Binning & Co.), J. W. Anderson, (Steel Brothers & Co. Ltd.), H. E. Smith (J. &. F. Graham & Co.), W. Macdonald (Harperink, Smith & Co.), Hon. Mr. B. J. B. Stephens, Mr. W. Smidt Jas. Wood (Bullock

(Mohr Bros. & Co., Ltd.) and Mr. B. E. G.

Secretary-Mr. C. A. Cuttriss.

Representative on the Burma Legislative Council—The Hon'ble Mr. B. J.B. Stephens. Representatives on the Rangoon Port Trust Board—Messrs. J. R. Halliday, (Arracan Co., Ltd.), The Hon'ble Mr. B. J. B. Ste-phens, Mr. J. C. Mackendrick, Mr. J. A. Polson, Mr. H. E. Smith and Mr. W. Macdonald

Representative on the Rangoon Municipal Committee-Mr. M. Joachim.

COCANADA.

The following are the office holders of the Cocanada Chamber of Commerce, which has its head-quarters at Cocanada, the chief port on the Coromandel Coast, north of Madras:—

the COTOMBANCH COSES, NOTES OF MAGRAS;—
Messrs. P. J. Rose (Bank of Madras),
Chairman; A. Gardiner and B. Eddington
(Coromandel Co., Ltd.), E. H. D'Cruz
(Wilson & Co.), A. E. Todd (Simson
Bros.), M. R. Ry. Rao Bahadur K.
Suryanarayansmurty Naidu Garu
and G. M. Lake (Innes & Co.), W. Mackintosh (Shaw Wallace & Co.), R. J.
Hunter (Ripley & Co.) and E. Wurster
(Vollant Bros.) (Volkart Bros.).

Secretary, Mr. H. Muller.

The rules of the Chamber provide "that by the term 'member' be understood a mercantile firm or establishment, or the permanent agency of a mercantile firm or establishment, agency of a metesation in the secondarians or a society of merchants earrying on business in Cocanada, or other place in the Districts of Kistna, Godavari, Vizagapatam, and Ganjam, and duly electing according to the Rules of the Chamber, and that all such be eligible, but only members resident in Cocanada can hold office."

[mittee, when called upon by disputing members or non-members of the Chamber, give their decision upon all questions of mercantile usage and arbitrate upon any commercial matter referred to them for final judgment. In the former case a fee of Rs. 16 and in the latter a fee of Rs. 32 must accompany the reference.

The Committee consist of 4 members, including the Chairman, and 2 supplementary members; the Chairman to be elected by ballot at the general meeting of January in each year, for a term of 12 months; and the Comyear, for a term of 12 months; and the committee, with 2 supplementary members, at the general meetings of January and July in each year, for the term of 6 months. The entrance fee for each member whose place of business is in Cocanada is Rs. 50 and for each member whose place of business is elsewhere be Rs. 25. The subscription for each member whose place of business is in Cocanada is Rs. 120 per annum, and for each member whose place of business is elsewhere be Rs. 60 per annum, payable quarterly in advance.

A weekly slip of current rates of produce, members resident in Cocanada can hold office." freights, and exchange is drawn up by the Members are elected by ballot. The Com-

CEYLON.

The Ceylon Chamber of Commerce was in-corporated in 1895 and has its head-quarters corporated in 1895 and has its nead-quarters at Colombo. All firms and persons engaged in the general trade of Ceylon are admissible as members and every person or firm desirious of joining the Chamber must be proposed by one member, seconded by another and ballotted for by the whole Chamber. The affairs of the Chamber are conducted by a Board of Of the Chamber are conducted by a Board of Directors consisting of Chairman and Vice-Chairman and from five to 10 members.

The following is the membership of this

The following is the membership of this Committee at the present time:—

Mr. Wm. Moir of Louis Brewn & Co., (Chairman), Mr. E. R. Waldock, (View Chairman), Mr. E. R. Waldock, (View Chairman), Mr. R. S. Philpott, (P. & O. S. N. Co.), Sir H. G. Bois, Mr. W. G. Macrian, (Charteed Bank), Mr. A. J. Martin, Mr. Goodwyn, Mr. R. S. Wright, Mr. C. S. Burns, Mr. J. Thomson Broom.

Secretar—Mr. F. M. Sten Broom. Secretary-Mr. F. M. Simpson.

The Chamber maintains an official Committee from whom members are appointed to conduct surveys and arbitrations. The Chambers

are not affiliated bodies. The following are the public bodies to which the Chamber elects representatives and the representatives elected for the current year :-

Ceylon Legislative Council.—Sir Stanley Bois

Colombo Port Commission.—Messrs. J. Co-chore (Carson & Co.), Mr. H. Goodwyn, A. J. Martin (Delmege Forsyth & Co.), J. A. Ridge (Ceylon Wharfage Co.), and R. S. Philpott (P. & O. S. N. Co.)

Colombo Municipality-Mr. G. Lionel Cox. nomoo Municipality—Mr. G. Lionel Cox.
Iaunters Association of Ceybon—(General
Coast Agency and Labour): Messrs.
W. Moir (Louis Brown & Co.), E. Turner
(Geo. Steuart & Co.), E. R. Waldock,
F. N. Mackie, F. L. Clements, H. W.
Crabbe, J. Thomson Broom, G. L. Cox
(Carson & Co.) and F. M. Mackwood
(Mackwood & Co.), one seat being vacant;
(Thirty Committee) Messrs. W. Moir,
E. R. Waldock, E. Turner and G. L. Cox,
two seats being vacant. Planters'

* The Peoples of India.

It is essential to bear in mind, when dealing | putana, and in Bihar and represented in its unat is essential to bear in mind, when dealing with the people of India, that it is a continent rather than a country. Nowhere is the complex character of Indians more clearly exemplified than in the physical type of its inhabitants. No-one would confuse the main types, such as Gurkhas, Pathans, Sikhs, Rajputs, Burmans, Nagas, Tamils, etc., nor does it take long to carry the differentiation much farther. The hagas, Tamins, etc., nor does it take long to carry the differentiation much farther. The typical inhabitants of India-the Dravidians-differ alto-gether from those of Northern Asia, and more nearly resemble the tribes of Malaya, Sumatra and Madagascar. Whatever may be their origin, it is certain that they have settled in the country for countless ages and that their present physical characteristics have been evolved locally. They have been displaced in the North-West by successive hordes of invaders, including Aryans, Soythians, Pathaus and Moghals, and in the North-Bast by Mongoloid tribes allied to those of Burma, which is India only in a modern political sense. Between these foreign elements and the pure Dravidians is borderland where the contiguous races have intermingled.

The people of the Indian, Empire are divided by Sir Henry Risley (Caste, Tribe and Race, Indian Census Report, 1901; the Gazettro of India, Ethnology and Caste, Volume I, Chapter 6) into seven main physical types. There would be cight to the Andrews were included by the be eight if the Andamese were included, but this tiny group of Negritos may be disregarded.

The Turko-Iranian, represented by the Baloch, Brahui and Afghans of Baluchistan and the North-West Frontier Province. Probably formed by a fusion of Turki and Persian elements, in which the former predominate. Stature above an wind the former precommance. Settline above mean; complexion fair; eyes mostly dark, but occasionally grey; hair on face plentiful; head broad; nose moderately narrow, prominent, and very long. The feature in these people that strikes one most prominently is the portentions leaveth of their noses and it is wrobably tions length of their noses, and it is probably this pecularity that has given rise to the tradition of the Jewish origin of the Afghans.

The Indo-Aryan occupying the Punjab, Rajputana, and Kashmir, and having as its characteristics members the Rajputs, Khattris, and Jats. This type, which is readily distinguishable from the Turko-Iranian, approaches most closely to that ascribed to the traditional Aryan colonists of India. The stature is mostly tall; complexion fair; eyes dark; hair on face plentiful, head long; nose narrow, and prominent, but not specially long.

The Scytho-Dravidian, comprising the Maratha Brahmans, the Kunbis, and the Coorgs of Western India. Probably formed by a mixture of Scythian and Dravidian elements. type is clearly distinguished from the Turko-Iranian by a lower stature, a greater length of head, a higher nasal index, a shorter nose, and a lower orbito-nasal index. All of these characters, except perhaps the last, may be due to a varying degree of intermixture with the Dravidians. In the higher groups the amount of crossing seems to have been slight; in the lower the Dravidian

per strata by the Hindustani Brahman and in its lower by the Chamar. Probably the result of the intermixture, in varying proportions, of the Indo-Aryan and Dravidian types. The head-form is long with a tendency to medium; the complexion varies from lightish brown to black; the nose ranges from medium to broad, being always broader than among the Indo-Aryans; the stature is lower than in the latter group, and usually below the average according to the scale. The higher representatives of this type approach the Indo-Aryans, while the lower members are in many respects not very far removed from the Dravidians. The type is essentially a mixed one, yet its characteristics are readily definable, and no one would take even an upper class Hindustani for a pure Indo-Aryan or a Chamar for a genuine Dravidian. The distinctive feature of the type, the character which gives the real clue to its origin and stamps the Aryo-Dravidian as racially different from the Indo-Aryan is to be found in the proportions of the nose.

The Mongolo-Dravidian, or Bengali type of Lower Bengal and Orissa, comprising the Bengal Brahmans and Kayasthas, the Mahomedans of Eastern Bengal, and other groups peculiar to this part of India. Probably a blend of Dravidian and Mongoloid elements, with a strain of Indo-Aryan blood in the higher groups.
The head is broad; complexion dark; hair on face usually plentiful; stature medium; nose medium, with a tendency to broad. This is one of the most distinctive types in India, and its members may be recognised at a glance throughout the wide area where their remarkable aptitude for cierical pursuits has procured them employment. Within its own habitat the type extends to the Himalayas on the north and to Assam on the east, and probably includes the bulk of the population of Orissa; the western limit coincides approximately with the hilly country of Chota Nagpur and Western Bengal.

The Mongoloid, type of the Himalayas, Nepal, Assam, and Burma, represented by the Kanets of Lahul and Kulu; the Lepchas of Darjeeling and Sikkim; the Limbus, Murmis and Gurungs of Nepal; the Bodo of Assam; and the Burmese. The head is broad; complexion dark, with a yellow tinge; hair on face scanty; stature short or below average; nose fine to broad; face characteristically flat; eyelids often oblique.

The Dravidian type extending from Ceylon to the valley of the Ganges, and pervading Madras, Hyderabad, the Central Provinces, most of Central India and Chota Nagpur. Its most characteristics representatives are the Paniyans of Malabar and the Santals of Chota Nagpur.
Probably the original type of the population
of India, now modified to a varying extent by the admixture of Aryan, Scythian, and Mongoloid elements. In typical specimens the stature is short or below mean; the complexion very dark, approaching black; hair plentiful, with an The Aryo-Dravidian or Hindustani, long; nose very broad, sometimes depressed attended in the United Provinces, in parts of Raj-

^{*}The material in this section is almost entirely taken from the Report on the Census of India, 1911, by Mr. E. A. Gait, C.S.I., C.I.E., I.C.S., Fellow of the Royal Statistical Society.

flat. This race, the most primitive of the Indian types, occupies the oldest geological formation in India, the medley of forest-clad ranges, terraced plateau, and undulating plains which stretches what particular stage in his progress the transplateau, and undulating plains which stretches roughly speaking, from the Vindhyas to Cape Comorin. On the east and the west of the peninsular area the domain of the Dravidian is conterminous with the Ghats, while further north threaches on one side to the Aravallis, and on the other to the Rajmahal Hills. Where the original characteristics have been unchanged by contact with Indo-Aryan or Mongoloid people, the type is remarkably uniform and distinctive. use type is remarkably uniform and distinctive. Labour is the birthright of the pure Dravidian whether hoeing tea in Assam, the Duars, of Ceylon, cutting rice in the swamps of Eastern Bengal or doing seavenger's work in the streets of Calcutta, Rangoon and Singapore, he is recognizable at a glance by his black skin, his squat figure, and the negro-like proportions of his nose. In the upper strata of the vast social deposit which is here treated as Pravidian these deposit which is here treated as Dravidian these typical characteristics tend to thin and disappear, but even among them traces of the original stock survive in varying degrees.

It must, however, be clearly understood that the areas occupied by these various types do not admit of being defined as sharply as they must be shown on an ethnographic map. They must be shown on an ethnographic map. melt into each other insensibly; and, although various primitive aboriginal at the close of a day's journey from one ethnic; head-hunting Nagas of Assar tract to another, an observer whose attention savages of the southern had been directed to the subject would realise vermin and jungle products.

MAIN STATISTICS OF THE INDIAN EMPIRE.

According to the revised areas adopted in the Census of 1911, the Indian Empire contains 1,802,657 square miles, or some 36,000 more than in 1901. About 23,000 square miles have been added owing to the enumeration for the first time of the Agency tracts attached to the North-West Frontier Province. A further 6,500 represent the area of the Sunderbans, or swampy littoral of the Ganges delta, which was left out of account at previous enumerations. Finally the Frontier State of Manipur has been found to contain about 5,000 square miles more than the estimate made in 1901.

Population Divisions.—The provinces under British administration comprise 1,093,074 square miles, or 60.6 per cent of the total. The remainder is included in the Native States. The total population is 315,156,396, of which British territory contains 244,267,542, or 77°5 per cent. and the Native States 70,888,854 or 22°5 per cent.

Comparisons with Europe.—These stupendous figures can be grasped only by contrast. The Indian Empire is qual to the whole of Europe, except Russia. Burma is about the same size as Austria-Hungary: Bombay is comparable in point of area with Spam; Madras, the Punjab, Baluchistan, the Central Provinces and Berar and Raiputana are all larger than the British Islands; the United Provinces and Bihar and Orissa than Haly; and Hyderabad and Kashmir than Great Britain excluding Yorkshire.

The population of India exceeds that of Europe without Russia, and is considerably more than three times that of the United States of America.

formation had taken place.

Contrasts.-The linguistic survey has distinguished in India about a hundred and thirty Indigenous dialects belonging to six distinct families of speech. In the domain of religion, though the bulk of the people call themselves Hindus, there are millions of Mahomedans, Animals and the control of the cont mists, Buddhists, Jains, Sikhs, and Christians. So also in respect of social customs. In the north near relatives are forbidden to marry; but in the the south cousin marriage is prescribed and even closer alliances are sometimes permitted. As a rule, female chastity is highly valued, but some communities set little store by it, at any rate prior to marriage, and others make it a rule to dedicate one daughter to a life of religious prostitution. In some parts the women move about freely; in others they are kept secluded. In some parts they wear skirts; in others trousers. In some parts again wheat is the staple food; in others rice, and in others millets of various kinds. All stages of civilisation are found in India. At one extreme are the landfound in India. At one extreme are the land-holding and professional classes, many of whom are highly educated and refined; at the other various primitive aboriginal tribes, such as the head-hunting Nagas of Assam and the leaf-clad savages of the southern hills who subsist on

Orissa as France, Bombay as Austria, and the Punjab as Spain and Portugal combined. The population of the Central Provinces and Berar approaches that of Brazil; Hydenabad and Burma have as many inhabitants as Egypt; Central India and Rajputana as Scotland and Ireland combined; and Assam as Belgium.

Density.-In the whole Empire there are on the average 175 persons to the square mile, or much the same as Europe outside Russia. In British territory the number to the square mile is 223 and in the Native States 100; the former figure exceeds by 34 the density ratio in France and the latter is indentical with that in Spain.

There are great local variations in density. In nearly two-thirds of the districts, and States, the number of persons to the square mile is less than 200, and in about a quarter it ranges from 200 to 500. The units with less than 100 persons to the square mile covers two-fifths of the total area, but contains only one-eleventh of the population.

Causes of Density.—The productiveness of the soil is the main factor in determining the density of the Indian people. The most thickly peopled tracts are the level plains where practically every inch of the land is sit for tillage. This is notably the case in Bengal and Bihar and the United Provinces East. The next most densely peopled tracts are the level think the land with the level of the land of the land with the land wi without Russia, and is considerably more than three times that of the United States of America. The United Provinces and Bengal, with the States attached to them, both have as many linhabitants as the British Islands, Bihar and favourable; the rainfall is more scanty and less

						<u> </u>	OWT	H OF THE INDIA	AN POPULATIO	N.	· · · · · · · · · · · · · · · · · · ·	
		-				•		1911.	1901.	1891.	1881.	1872.
INDIA								315,156,396	294,361,056	287,314,671	253,896,330	206,162,360
Provin	ICES .				••			244,267,542	231,605,940	221,240,886	198,882,817	} ' '
						• •	1		201,000,010	221,220,000	100,002,017	185,163,435
jmer-Merwa ndamans an	ra id Nico	bars	::	::	::	::	::	501,395 26,459	476,912 24,649	542,358 15,609	460,722 14,628	396,331
ssam aluchistan	::	::	::	::	::	::	::	6,713,635 414,412	5,841,878 882,106	5,477,302	4,907,792	4,150,769
engal	••		••	••	••	••	••	45,483,077	42,141,477	39,089,632	36,316,728	34,119,465
ihar and Ori Bihar	58a ••	::	::	::	•••	::	::	34,490,084 23,752,969	33,242,783 23,360,212	32,876,557 23,581,538	30,988,320 22,418,367	26,486,482 19,735,627
Orissa Chota No	 agpur	::	::	::	::	::	::	5,131,753 5,605,362	4,982,142 4,900,429	4,666,227 4,628,792	4,343,964 4,225,989	3,603,156 3,147,699
ombay (Pres Bombay	idency)	.:	::	::	::	••	::	19,672,642 16,113,042	18,559,650 15,804,766	18,878,471 15,959,292	16,494,538 14,042,621	16,301,362 14,075,508
Sind Aden	::	::	• • •				::	3,513,435 46,165	8,210,910 43,974	2,875,100	2,875,100	2,206,565
urma entral Provi	•• `	••	••	••	••	••		12,115,217	10,490,624	44,079 7,722,053	34,860 3,736,771	19,289 2,747,148
Central 1 Berar	nces an Provinc	d Ber	ar 	••			::	13,916,308 10,859,146 3,057,162	11,971,452 9,217,436	13,048,972 10,151,481	11,943,363 9,270,690	9,951,268 7,723,614
oorg			•••	••	••	••	[2,754,016	2,897,491	2,672,673	2,227,654
ladras	::	::	::	••	::	::	::	174,976 41,405,404	180,607 88,229,654	173,055 35,644,428	178,302 30,841,154	168,312 31,230,622
forth-West istered Ter unjab	Frontie ritories	r Pro	virce	(Distric	ts and	Adn	in-	2,196,933	2,041,534	1,857,519	1,575,943	17,609,672
-	••		••	••	••	••		19,974,956	20,330,337	19,009,368	17,274,597	17,609,672
United Provi Agra	nces of	Agra	and C	udh	• •		!	47,182,044	47,692,277	46,905,512	44.340.000	
Oudh	::	::	::	::		••	::	34,624,040 12,558,004	34,859,109 12,833,168	34,254,588 12,650,924	44,149,959 32,762,127 11,387,832	42,002,004 30,780,961 11,221,043

regular; but it is supplemented in many parts by water from the canals. The natural divisions which contain the coast districts of Orissa and north Madras, with a rainfall of 50 inches, has a relatively low mean density, but this is because it includes on the west a considerable hilly

population in several more or less level tracts such as Gujarat, Rajputana East and Central India West, and the North-West dry area. In Assam there are extensive tracts of hill and jungle and sandy stretches in the strath of the Brahmaputra River, where permanent cultivation is out of question. The agricultural returns show that three-quarters of the whole area is cultivable area, while on the east near the sea the ground is area, while on the east near the sea the ground is swampy and impregnated with salt. In the intermediate strip, between the littoral and the hills, the density is as great as in parts of the lower Gangetic Plain. Want of water is the main explanation of the comparatively sparse! less than half that shown in the returns.

TOWNS AND VILLAGES.

The definition of a town in the Indian census statistics includes every municipality; all Civil Lines not included within municipal limits; every cantonment; every other continuous collections of houses inhabited by not less than 5,000 persons, which may be treated as a town for census purposes. Only 9.5 per cent. of the population of India are found in towns as defined above, compared with 78.1 per cent. in England and Wales and 45.6 per cent. in Germany. Rather more than half the urban population of India is found in towns containing upwards of 20,000 inhabitants, about one-fifth in towns with from ten to twenty thousand, and the same proportion in those with from five to ten thousand; the remainder, about one-fifteenth, live in towns with less than five thousand. The tendency to urban aggregation is most marked in the west of India and least so in the north-east. proportion of the urban to the total population in the main provinces ranges from 18 per cent. in Bombay to only 3 per cent in Assam. The urban population of Upper India is much larger than it otherwise would be, because of the numerous old capitals which are found there. In the future the main factors will be the expansion of trade and industrial development.

Sex in Towns.-In respect of the distribution by sex, the urban population in India presents a striking contrast to that of European countries. In Europe the proportion of females countries. In Europe the proportion of remains is larger in towns than in the general population, but in India t is considerably smaller, and the number of females per thousand males is only 847, compared with 953 in the population as a whole. The reason is that in this country the great whole with a domain of the domains and the second to the second majority of the domestic servants, shop hands majority of the comesus servants, snop nances and factory employes are males. The disproportion is most marked in large trading and industrial centres where the number of immigrants is large. In Calcutta, for example, the foreign-born population contains only 357 females per thousand males.

Religion in Towns.—Of the Parsis no fewer than six out of every seven are resident in towns; of the Jains, the proportion is nearly one-third; and of the Christians more than one-fifth. There is a marked contrast between these proportions and those for Hindus and Mahomedans who form the bulk of the population. Of the Mahomedans less than one-eighth, and of the Hindus less than ness than our-region, and or all thinks are of the one-eleventh, reside in towns. In the case of the former the proportion rises to one-sixth if we exclude the figures for Bengal, where the majoriexcitate the higher for Dengal, where the majority of the Mahomedans are the descendants of local converts. Amongst the Hindus the higher castes have hitherto shown a greater predilection | quarter of its population.

for town-life than the lower. but the disproportion is gradually disappearing; modern industrial developments are attracting the lower castes to towns in ever-increasing numbers.

Urban and Rural.—The proportion of the urban to the total population has fallen during the decade from 9.9 to 9.5 per cent. The main explanation of this is undoubtedly the fact that plague has been far more prevalent in towns than in rural areas. This scourge has now spread to all parts of the Empire except the east and south. At the time of the census an epidemic was raging in many towns, especially in those of the United Provinces, Central India and the Central Provinces and Berar, and a large number of the regular ces and herar, and a large number of the regular inhabitants had gone away. In addition, however, to driving people away, plague has been responsible in many towns for a terribly heavy mortality. It is impossible to make any estimate of the direct and indirect effects of plague on the growth of towns but it is covide cortain. on the growth of towns, but it is quite certain that they have been enormous.

Urban Tendencies.-We cannot draw any conclusions as to the tendency to urban aggrega-tion from a comparison of the statistics of the present census with those of the previous one, when plague was still a new, and more or less local visitation, but there can be no doubt that there is a growing tendency for people to congregate in towns of a certain kind. The introduction of machinery is rapidly causing the old cottage industries to be replaced by mills and factories; and these are necessarily located at those places where there are the best facilities for collecting where there are the dest facilities for concerning the raw material and distributing the manufactured article. The jute industry is practically confined to the banks of the Hooghly near the port of Calcutta. Cotton mills are found chiefly in Western India and woollen and leather factories of Camprage and Dall. The increase factories at Cawnpore and Delhi. The increaslactories at Campore and Delin. The Increas-ing trade of the country and the improvements in railway communications also encourage the growth of towns. Not only are the great sea-ports attracting an ever-growing population, but various inland towns are benefiting from the same cause. The extent to which modern conditions of trade and industry are causing the growth of towns is obscured not only by plague, which is generally far more prevalent in towns than in rural areas, but also by the decay of old centres of population, which owed their importance to past political and economic conditions. Throughout India there are many former capitals of defunct dynasties whose population is steadily dwindling. During the last ten years, Mandalay, the last capital of the kings of Ava, has lost a quarter of its population. cause. The extent to which modern conditions

GROWTH OF THE INDIAN POPULATION-contd. 1911. 1901. 1891. 1881. 1872. ı. STATES AND AGENCIES 70,888,854 62,755,116 66,073,835 55,013,513 20,998,925 .. Assam State (Manipur) 346,222 284,465 221.070 •• Baluchistan States 420,291 428,640 Baroda State ... 2,032,798 1,952,692 2,415,396 2,182,158 1,997,598 . . Bengal States ... 822,565 740,299 716,310 698,261 567,827 • • Bihar and Orissa States 3,945,209 3,314,474 3,028,018 2,410,611 1,723,900 • • Bombay States 7,411,675 6,908,559 8,081,950 6,937,893 • • 6,797,970 Central India Agency 9,356,980 8,497,805 • • 10,136,403 9,261,907 Central Provinces States 2,117,002 1,631,140 1,712,562 928,116 ٠. 1,387,294 Hyderabad State 13,374,676 11,141,142 11,537,040 • • 9,845,594 Kashmir State 3,158,126 2,905,578 ٠. 2,543,952 Madras States .. 4,811,841 4,188,086 8,700,622 • • 3,289,392 3,344,849 Mysore State .. 5,806,193 5,539,399 • • 4,943,604 4,186,188 5,055,402 N.-W. F. Province (Agencies and Tribal areas) 1,622,094 ٠. 83,962 Punjab States 4,212,794 4,424,398 4,263,280 8,861,683 Rajputana Agency 10,530,432 9,853,366 12,171,749 9,934,255 Sikkim State ... 87,920 59.014 نهيه ٠. 30,458 United Provinces States 832,036 802,097 ٠, 792,491 741,750 638,720

CITIES.

as cities only those places which have a population of more than 100,000. According to this lation of more than 100,000. According to this standard there are in India only 30 cities, with a population of 7,075,782, or 2.2 per cent. of the population. Here there is an extraordinary difference between the Indian conditions and those of Western countries. In England the those of Western countries. In England due dities contain 45 per cent. of the total population, in Germany 21, and in France 14 per cent. But even in these countries the growth of cities is comparatively recent. In 1871 England had only 27 cities with 9.5 million inhabitants and Germany only 8 with 2 millions. There are signs that in India the growth will be more rapid signs that in india the growth will be more rapid in the future than it has been. The population of cities has risen since 1872 by 64 per cent, and the net increase, comparing like with like, is 43 per cent. The most rapid growth during this period is shown by Rangoon which has trebled its nounlation. Nat comes Kerschi with a rise its population. Next comes Karachi with an increase of 168 percent, and then Madura and Howrah with 168 and 113 per cent. respectively. Since 1901, two new places, Jubbulpore and Dacca, have entered the list of cities, while Baroda has disappeared from it. Eighteen cities have gained, and twelve have lost, population. Of the latter, a few like Mandalay are really decadent, but in most, such as Nagpur and Cawnpore, the loss was due wholly to the temporary influence of plague. The progressive cities are differentiof piague. The progressive cities are dimerantiated from those which are decadent by their large immigrant population. In Bombay, Calcutta and Howard this exceeds 70 per cent. of the total and in Rangoon and Karachi it is close on 60 per cent. In Patns, Mandalay and Bareilly, on the other hand, it is barely 10 per cent.

Calcutta.-In speaking of Calcutta we may mean Calcutta proper, or the area administered by the Calcutta Municipal Corporation with the you to the and canals, the population with the post of the service of the population of which is 896,00%, or this area plus the suburban muni-cipalities of Cossipur-Chityore, Manicktola and Garden Reach with 1,043,307 inhabitants, or Isst-ly Greater Calcutts, which also includes Howrah, with an aggregate population of 1,222,813. The suburban municipalities differ from Calcutta only in respect of their Municipal Government. From a structural point of view they cannot be distinguished. The buildings are continuous throughout, and there is nothing to show where one municipality begins and the other ends. A striking feature of the statistics is the large numstriking feature of the statistics is the large number of immigrants. Less than 29 per cent. of the inhabitants of Calcutta proper claim it has as their birthplace. The vast majority are immigrants, of whom 204,000 come from Bihar and Orissa and 90,000 from the United Provinces. Of the Bengal districts, the largest contributions are those from the 24 Parganas (88,000), Hooghly (48,000) and Midnapur (29,000). The volume of immigration is enably creat in the volume of immigration is equally great in the suburbs and Howrah,

The first regular census of Calcutta proper The first regular censur of cascines proper taken in 1872 showed a population of 6,33,009. In 1881 there was practically no change, but in 1891 a gain of 11 4 per cent, was recorded. In 1991 here was a further increase of 24.3 per cent., but part of this was due to improved enumer-

The general practice of statisticians is to treat | per cent | The falling off is due largely to the growing tendency of the inhabitants to make their home in the suburbs or even further afield. The suburban municipalities have grown during the decade by 45'3 per cent.

Rombay.—which has now a population of 979,445 was a petty town with about ten thousand inhabitants when it passed into the possession of the British in 1661. The population was estimated to be 100,000 in 1780, 180,000 in 1814 and 236,000 in 1836. At the first regular census in 1872 it had risen to 644,405, and nineteen years later, in 1891, it was 821,764. In the next decade plague, which first appeared in September 1896, caused a serious appeared in September 1896, caused a serious set back; and it is estimated that by 1901 this disease had already been responsible for 114,000 disease had already been responsible for 114,000 deaths. The census of that year showed a decrease of about 6 per cent., but this was not wholly due to deaths. At the time when the census was taken, a virulent epidemic was in progress, and large numbers of the permanent residents had sought safety in flight. A fresh enumeration taken in 1906 by the Health Department of the Mnicipality gave a nomilation of 955 537 Tha nicipality gave a population of 959,537. number now returned exceeds that of 1901 by 26 per cent. but it is only 2 per cent. more than it was at the time of the local enumeration of 1906. It is said that the census of 1911 was taken at a time when many of the immigrants from neighbouring districts had gone to their permanent homes for the Holi holidays, and that many of the cotton mills had closed and that many of the cotton mins had closed down temporarily owing to the prohibitive price of the raw material. Like other large trading and industrial centres, Bombay is peopled mainly by immigrants; and more than 80 per cent. of its inhabitants were born elsewhere. Most of them come from the neighbouring districts; more than one-fourth of the total number are from Ratnagiri, while four other districts together supply more than a third. There are 30,000 Goanese, most of whom are in domestic service. Of the immigrants from outside the province, some 50,000, chiefly mill hands, are from the United Provinces, and 12,000 mainly shop-keepers, from Rajputana. Of the immigrants from outside India the largest number (6,000) come from the United Kingdom.

Madras Unlike Calcutta and Bombay, Madras, which is handicapped by its distance from the coal-fields, has but few large industries. The indigenous handicrafts are decaying and their place is not being taken by factories of the modern type. Apart from its being the headquarters of the Local Government, Madras owes whatever importance it possesses to its position as a distributing centre. Of its total population (518,660), only one-third are immig-rants, and of these only 12 per cent. have come from places beyond the limits of the Madras Presidency. The great majority are natives of the four districts in the immediate vicinity of the city.

The population grew fatrly rapidly during the twenty years prior to 1901, but since then it has been almost stationary. There has been ation. At the present census the rate of an increase of about one per cent. In the number increase in Calcutta proper has dropped to 5.7

SUMMARISED GROWTH OF THE INDIAN POPULATION.

								· · · · · · · · · · · · · · · · · · ·			Net variation
	•		-	,			1901 to 1911.	1891 to 1901.	1881 to 1891.	1872 to 1881.	in period 1872 to 1911. Increase (+). Decrease (-).
IND	IA			••			+20,795,340	+7,046,385	+ 33,418,341	+47,733,970	1 100 001 001
Provi											+108,994,036
PROVI	NOES	••	••	••	••	••	+12,661,602	+10,365,104	+22,358,019	+13,719,382	+59,104,107
Ajmer-Merwara Andamans and Ni	cobars	::	::	::	::	::	+24,483 +1,810	-65,446 +9,040	+81,636 + 981	+64,391	+105,064
Assam Baluchistan	::		::		::	::	+871,757 +32,306	+364,576	+569,510	+757,023	+2,562,866
Bengal	••	••	••	••			+3,341,600	+3,051,845	+2,772,904	+2,197,263	+11,363,615
Bihar and Orissa Bihar	::	::	::	::	::	::	+1,247,301 +392,757	+366,226 -221,326	$^{+1,888,237}_{+1,163,171}$	+4,501,838 +2,682,740	+8,008,609 +4,017,349
Orlssa Chota Nagpur	r ::	::	::	::	::	::	+149,611 +704,933	+315,915 +271,637	+322,263 +402,803	+740,808 +1,078,290	+1,528,59 +2,457,66
Bombay (Presiden Bombay	icy)	::	::	::	::	::	+1,112,992 +808,276	-318,821 -654,526	+2,383,933 +1,916,671	+193,176 32,887	+3,371,286 +2,037,53
Sind Aden	••	::	::	••	::	::	+302,525 +2,191	+335,810 -105	+458,043	+210,492	+1,306,876
Burma	• •	••	••	••	••		+1,624,593	+2,768,571	+9,219 +3,985,282	+15,571 +989,623	+26,876 9,368,066
Central Provinces Central Provi Berar	and Be inces	rar	••	••	::		+1,944,856 +1,641,710 +303,146	1,077,520 934,045 143,475	+1,105,609 +880,791 +224,818	+1,992,095 +1,547,076 +445,019	+3,985,04 +3,135,53 +820,500
Coorg Mudras	::	::	::	• • • • • • • • • • • • • • • • • • • •	::	::	-5,631 +3,175,750	+7,552 +2,585,226	-5,247 +4,803,274	+9,990 -389,468	+6,664 +10,174,78
North-West Front tered Territorie	tier Pro s).	vince	(Distr	icts an c	Adm	inis-	+155,399	+184,015	+281,576	1	
Punjab	••	••	••	••	••	••	-355,381	+1,320,969	+1,734,771	+1,240,868	+1,562,21
United Provinces Agra Oudh	of Agra	• •	Oudh	••	••	••	-510,233 -235,069 -275,164	+786,765 +604,521 +182,244	+2,755,553 +1,402,401 +1,263,092	+2,147,955 +1,981,166 +166,789	+5,180,040 +3,843,079 +1,336,96

have been enumerated within the city limits. As compared with 1901 the net gain due to migration is less than 9,000. It is possible that the great demand for labour in Burma, where wages are very high, has attracted many of the labouring classes who would otherwise have sought their living in Madras.

Hyderabad.—Next to the three Presidency towns, the largest city in India is Hyderabad, the capital of the Nizam's Dominions. Its population is shown in the local Census Report the shown in the local Census Report the population is shown in the local Census Report of the shown in the local Census Report of the population is drawn from outside.

HOUSES AND FAMILIES.

are arranged round and open on to a courtyard. In spite of the joint family system the number of of families in the European sense. The total number of families in the European sense. The total number of houses is 63.7 million, and there are 64.6 million married females aged 15 and over. Except amongst the higher castes who

Generally speaking it may be said that the form but a small fraction of the total population labouring classes in India live in one, or at the most two, single room huts. The home of a well-to-do peasant consists of a public sitting room and a cook room and several apartments which the two sand cities, owing to the high rents, are recognized according to the conversal apartments which there is often a strong disruptive tendency. In the towns and cities, owing to the high rents, the unit for all below the middle class is the room, not the house.

	Avera	ge por	uiatioi	aper no	ouse.	
1881		• • • •			••	5.8
1891				• •	••	5.4
1901	• • •					5.2
1911					• •	4.9

MOVEMENT OF THE POPULATION.

According to the census returns, the total [population of India has increased by 7.1 per cent during the last decade, and by 52.9 per cent since 1872, but the real gain since the latter date since 1872, but the real gain since the latter date is very much less than this. Large tracts of country, including the Central India and Rajputana Agencies, Hyderabad and the Punjab States, which were omitted from the census returns of 1872, were included in those of 1881. In 1891 the greater part of Upper Eurma and Kashmir and several smaller units were enumerated for the first time. In 1901 the most important additions were a rection of Upper European Country and States and Country were a rection of Upper European Country and Country were a rection of Upper European Country and Country were a rection of Upper European Country and Country were a rection of Upper European Country and Country portant additions were a portion of Upper Burma and the greater part of Baluchistan. In 1911 the Agencies and tribal areas in the North-West Frontier Province, together with a few smaller areas, were included within the scope of the enumeration. The real increase in the population in the last 39 years is estimated at about 50 millions, or 19 per cent. This is less than half the increase which has taken place in the same period amongst the Teutonic nations of the same period amongst the Teutonic nations of Europe, but it considerably exceeds that of the Latin nations. In France the population has grown by less than 7 per cent since 1870, but this is because of its exceptionally low birth-rate. In India the birth-rate is far higher than in any European country; and it is the heavy mortality especially amongst infants, which checks the rate of increase.

Famine and Disease.—In addition to the causes which ordinarily govern the movement of the population, India is subject to two special factors-famine and epidemic disease. The decade preceding the census of 1911 was free from widespread famines such as those of the precedincaten years. In 1907 there was a partial failure of the moneoon which was felt over a wide area, extending from Bihar to the Punjab and Bombay, and causing actual famine in the United Bombay, and causing actual famine in the United Provinces and in a few districts elsewhere. Prices ruled high in most years and there was an extension of special crops, such as jute and cotton, which are more profitable to the cultivator than food grains. It was on the whole a period of moderate agricultural prosperity. From the point of view of public health, the censal period would have been an average one, but for the rayages of playse. Breaking out in but for the ravages of plague. Breaking out in

Bombay in 1896, it has by March 1901 caused a recorded mortality of half a million. Since then it has continued its ravages, especially in Bombay and Upper India. The mortality from it rose from about a quarter of a million in 1901 to 1.3 millions in 1907. It fell below a quarter of a million in each of the next two years, but in 1910 it exceeded half a million. The total number of deaths from plague during the decade was nearly 6.5 millions of which over one-third occurred in the Punjab and two-fifths in the United Provinces and Bombay, taken together. The disease fortunately has failed to establish itself in Bengal, Assam, and on the East Coast and in the extreme south of the Peninsula. This however is only the recorded mortality; in time of epidemic the reporting agency breaks down and large numbers of deaths escape registration. Plague attacks women more than men, and people in the prime of life more than the young and old. If plague is omitted, and it is assumed that the mortality of the decade would otherwise have remained normal, the population of the census of 1911 would have been greater than it was by at least 6.5 millions. In other words, the population would have increased by 9.3 instead of 7.1 per cent.

General Conclusions.—The most noticeable feature is the continuous rapid growth in Burms. Lower Burma has grown by 135 per cent. since 1872 and the whole Province including Upper Burma, which was annexed in 1886, by 37 per cent since 1891. In Assam including Manipur the increase since 1872 amounts to 70 and in the Central Provinces and Reparts 47 per cent. increase since 1872 amounts to 70 and in the Central Provinces and Berar to 47 per cent. In the other main provinces the rate of growth has been much slower. In some provinces, such as Burma, Assam and Bengal there has been continuous progress but others, at some time or another, have sustained a set-back. In the large-manufacture at least the internal presistions at least the internal presistions. ger provinces at least, the internal variations are also frequently considerable. In Bengal one district has at the present time a smaller population than it had in 1872, while four others have more than doubled their population since that date.

In British territory there has been a gain of 9.1 per cent. over about nine-tenths of the area,

			_				1901 to 1911.	1891 to 1901.	1881 to 1891.	1872 to 1881.	Net variation in period 1872 to 1911. increase (+). Decrease ()
States and	AG:	ENCII	zs	••			+8,133,738	-3,318,719	+11,060.322	+34,014,588	+49,889,929
Assam State (Manipur))	••	••				+61,757			••••	••••
Baluchistan States			••	••			8,349			••••	••••
Baroda State		••	••	••		••	+80,106	462,704	+233,238	+184,560	+35,200
Bengal States			••	••	••	••	+82,266	+23,989	+18,049	+130,434	+254,738
Bihar and Orissa State	s	••		••	••	••	+630,735	+286,456	+617,407	+686,711	+2,221,309
Bombay States		••	••	••	••		+503,116	1,173,391	+1,144,057	+139,923	+613,70
Central India Agency		••	••	••	••		+859,175	1,638,598	+874,496	••••	••••
Central Provinces Stat	es	••	••	••	••	••	+485,862	81,422	+325,268	+459,178	+1,188,886
Hyderabad State		••	••	••	••	٠	+2,233,534	-395,898	+1,691,446	••••	••••
Kashmir State		••	••	••	••		+252,548	+361,626		••••	
Madras States		••	••	••			+623,755	+487,464	+355,773	+55,457	+1,522,44
Mysore State		••	••		••	••	+266,794	+595,795	+757,416	-869,214	+750,79
NW. F. Province (Ag	enci	es and	l Triba	al areas)	••	+1,538,132	·		••••	••••
Punjab States		••	••	••			211,604	+161,118	+401,597	••••	••••
Rajputana Agency		• •	••	••	••		+677,066	-2,318,383	+2,227,494	••••	
Sikkim State		••	••	••			+28,906	+28,556		••••	••••
United Provinces Stat	es	••	••	••	••	••	+29,939	+9,606	+50,741	+103,030	+193,31

SUMMARISED GROWTH OF THE INDIAN POPULATION—contd.

with three quarters of the total population, and a loss of 5.3 per cent. in the remaining one-tenth of the area and one-fourth of the population. The contrast in different parts of the Native States is still more striking. The net increase of 10.3 per cent is the outcome of a gain of 14.3 per cent, in four-fifths of the total area and population, coupled with a loss of 6.2 per cent. elsewhere. The relatively greater net increase in the Native States as compared with British territory is explained by the fact that many of the States suffered severely from famine in the previous decade when they sustained a net loss of 5 per cent., while British territory gained 4.7

per cent. Apart from this, in ordinary circumstances a comparatively high rate of increase is to be expected in the Native States, as they are, on the whole, more undeveloped than British territory, and contain a much larger proportion of cultivable waste land. The net increase in India as a whole during the last decade is the resultant of a gain of 10.3 per cent. in an area of 1,517,000 square miles, with a population of 245 millions and a present density of 162 to the square mile, and a loss of 5.5 per cent. in an area of 218,000 square miles with a population of 68 millions and a density of 312 to the square

MIGRATION.

In India there are two currents of migrationminor and major. The chief of the minor move-ments is the custom, almost universal amongst Hindus, whereby parents seek wives for their sons in a different village from their own. Of the 28.5 million natives of India who were enumerated in a district other than that in which they were born, 16.5 millions, or 62 per cent. were born in a district adjoining that in which they were enumerated. The major currents of migration are governed by economic conditions. The most noticeable movements are the large streams of emigration from Bihar and Orissa, Madras, the United Provinces and Rajputana, and of immigration into Bengal, Assam and Burma. Owing to its fertile soil, Bengal is able to support practically the whole of its dense indigenous population by agriculture. It is necessary therefore to man the jute mills by imported labour, as also the tea gardens of Darjiling and Jalpaiguri and to draw the general labour supply from outside. In Bengal the net excess of immigrants over emigrants is close on 1,400,000. Of these about 236,000 are Natives of a district in Bihar and Orissa, or Assam, contiguous to the Bengal district in which Assam, contiguous to the Bengal distinct in vincer they were enumerated. Assam and Burma are sparsely populated and the land available for cultivation being ample, very few of the indigenous thabitants find it necessary to work for hire. The tea gardens of Assam and the rice mills and all walls of Burman have to obtain their cooling. oil wells of Burma have to obtain their coolies elsewhere. In Assam 12.5 per cent. and in Burma 5 per cent. of the population are immigrants.

On an average 51,000 labourers and dependants go each year to the tea gardens of Assam. In Burma, Madras supplies labourers for the rice-milling, oil and other industries, whilst many coolies flock into the province from Chittagong, chiefly for the rice harvest. The net loss to Bihar and Orissa on account of migration is about 1.5 millions. The United Provinces sustain a net loss of about 800,000 from migration, chiefy in the direction of Bengal. Madras being very backward from an industrial point of view, there is no great local demand for labour. At the same time there is an exceptionally large population of the "untouchable" castes, who have no scru-ples about seeking their livelihood oversea. It provides Ceylon with labour for its plantations, Burma with labour for its industries, and the Federated Malay States with labour for their rubber plantations. The enterprising Marwarl traders of Rajputana have penetrated to all parts of India and are to be found in very important bazars throughout Bengal and even in Assam. Bombay is industrially more advanced than Bengal, but as its a soil is less productive

there is a large local supply of labourers, chiefly from the southern coast strip called the Konkan. The United Provinces give more than four times as many labourers to Bengal as to Bombay. As for the migration between British India and Native territory, it involves a loss of 135,000 to the Native States.

Asiatic Immigration.—Of the 504,000 persons born in other Asiatic countries who were resident in India at the time of the census, more than half were natives of Nepal. Of the 22,000 immigrants from Afghanistan all but 11,000 were enumerated in Northern India. The rest were cold weather visitors who travel about the country peddling piece-goods and other articles of clothing. These Cabuli pedlars cause great trouble in Bengal by their truculence. The number of Chinese is 80,000. Most of these are found in Burma, but the Chinaman is making his way into Bengal, where he is appreciated as a shoemaker and carpenter. From Arabia come 23,000 immigrants, chiefly to Bombay.

Non-Asiatic Immigration.—The total number of immigrants from countries outside Asia is 146,265. Of these 131,968 come from Europe. The United Kingdom sends 122,919; Germany comes next with only 1,860 and then France with 1,478. As compared with 1901 there is an increase of about 25,000 in the number of immigrants from the United Kingdom. Of the British-born 77,628 were serving in the army as compared with 60,965 at the time of the previous census, when a strong contingent had been sent from India to reinforce the British garrison in South Africs. The rest of the increase is accounted for by the industrial development which has taken place, the extension of railways, and the growing extent to which Englishmen in India marry. The number of temales born in the British Islands and enumerated in India has risen during the decade from 14,663 to 19,494. The figures for other European countries do not call for any special comment.

Emigration from India.—The Indian census statistics naturally tell us nothing of the emigration from India to other countries. This emigration is of two kinds, the movement across the border which separates India from contiguous countries, such as China, Nepal, Afghanistan and Persia, much of which is of the casual type, and emigration to distant countries. No statistics are available regarding the emigration from India to the countries on its borders. There is probably, very little movement from Burma into China

VARIATION IN POPULATION OF THE 30 CHIEF TOWNS.

· · · · · · · · · · · · · · · · · · ·				1911.	1901.	1891.	1881.	1872.
CALCUTTA AND FORT *				896,067	847,796	682,305	612,307	633,009
BOMBAY			- ::	979,445	776,006	821,764	773,196	644.405
LADRAS AND CANTONMENT				518,660	509,346	452,518	405,848	397,552
Agra and Cantonment		• •		185,449	188,022	168,662	160,203	
Ahmedabad and Cantonment			- : :	216,777	185,889	148,412	127,621	149,008
Allahabad and Cantonment		•••		171,697	172,032	175,246	160,118	119,672
		٠	- ' ' 1	,	2,12,002	170,440	100,116	143,693
Amritsar and Cantonment		••		152,756	162,429	136,766	151.896	135,813
Bangalore Civil and Military St	ation †		1	100,834	89,599	100,081	93.540	81,810
Bareilly and Cantonment				129,462	133,167	122,837	115,138	104,533
Benares and Cantonment			1	203,804	213.079	223,375	218,573	
awnpore and Cantonment				178,557	202,797	194,048	155,369	178,300
Dacca				108,551	89,783	81,585	78,369	125,877
			- 1	, i	,	01,000	10,009	68,595
Delhi and Cantonment]	232,837	208,575	192,579	173,393	154,417
Howrah				179,006	157,594	116,606	90,813	
Hyderabad and Cantonment		••		500,623	448,466	415,039	367,417	84,069
Jaipur		••	!	137,098	160,167	158,787	142,578	• • • •
Jubbulpore and Cantonment				100,651	90,533	84,682		*****
Karachi and Cantonment		٠,		151,903	116,663	105,199	76,023	55,469
			1	·	220,000	100,100	73,560	50,753
Lahora and Cantonment		• •		228,687	202,964	176,854	157,287	
Lucknow and Cantonment			1	259,798	264,049	273,028	261,303	125,413
Madura				134,130	105,984	87,428	73.807	284,770
Mandalay and Cantonment				138,299	183,816	188,815	, , ,	51,987
Meerut and Cantonment		٠		116,227	118,129	119,390	99.565	*****
Nagpur		••		101,415	127,734	117,014		81,386
			- 1	1	,	117,014	98,299	84,441
Patna		• •		136,153	134,785	165,192	170,654	150,000
Poons and Cantonment		• •	1	158,856	153,320	161,390	129,751	158,900
Rangoon and Cantonment		• •	1	293,316	245,430	182,080	120,751	118,886
Srinagar and Cantonment		• •	- • •	126,344	122,618	118,960	134,176	98,745
Surat and Cantonment		• •	•••	114,868	119,306	109,229	109,844	10000
Trichinopoly and Cantonment			٠. ا	123,512	104,721	90,609		107,855
						20,009	84,449	76,530

The above figures for Calcutta exclude the population of Cossipore-Chitpur, Manicktola and Garden Reach. These places have a separate Municipal administration, but for all practical purposes they form an integral part of Calcutta. So also does Howah except that it lies on the opposite bank of the Hoogly. If the first-mentioned Municipalities be added, the population of Calcutta rises to 1,043,307. If Howah also be included, it comes to 1,222,313.

[†] Bangalore City and Bangalore Civil and Milltary Station are structurally a single unit, but for the purpose of the census they have been treated as separate places.

but, on the other hand, it is believed that the emigration into the somewhat sparsely peopled Nepal terai from some of the adjacent British districts, where the population is much congested, exceeds the countervailing immigration. Very few people go from British territory to settle permanently in Afghanistan or Persia, but at the time when the last census was taken owing to drought in Baluchistan, a considerable number of Nomad Brahuis from Chagai, and of Baloch from Mekran had passed over temporarily into Afghanistan Persia. At a rough guess the number of emigrants across the Indian Frontier may be taken to be about a fifth of a million.

Emigration to Distant Countries.—Of the emigrants to distant countries a certain number find their way to French or Dutch Colonies, such as Surinam, Martinique and Guadeloupe. But the majority go to other parts of the British Em-pire. The total number of emigrants from India to other parts of the British Empire slightly exceeds a million, of whom about two-thirds are males; more than four-fifths of the aggregate are Hindus and only one-tenth are Mahomedans. Of Hindus and only one-tenth are manomenans. On the total number, about 474,000 were cnumerated in Ceylon, 231,000 in the Straits Settlements and the Malay States, 88,000 in British Guiana, 73,000 in Natal, 51,000 in Trinidad, 35,000 in Mauritius, 29,000 in Figiand 8,000 each in Jamaica and Zanzibar. About one-fifth of these emigrants failed to specify their province of birth; of the remainder no less than 693,000 or 85 per cent. were from Madras, 32,000 from Bengal, about 20,000 each from the United Provinces and Bombay, 16,000 from Bihar and Orissa, 13,000 from the Punjab and Bihar and Orissa, 13,000 from the Punjab and 8,000 from the Mysore State. The number who emigrated from other parts of India was inconsiderable. Most of these emigrants to the colonies went as ordinary labourers in sugar, tea, coffee, rubber and other plantations, but a large number of those from Bombay and Bengal are lascars on ships, while many of the natives of the Punjab are employed in the army or military notice. the army or military police.

Ceylon.—The movement to Ceylon is of long-standing. Owing to the rapid expansion of tea cultivation, the number of natives of domestic callings.

India enumerated in that Island increased by 65 per cent. in the decade ending in 1901. Since then there has been a further increase of nearly 10 per cent, chiefly on account of the new rubber plantations. The great majority of these emigrants are from the southern districts of Madras. Mysore sends about 8,000, Travancore 7,000 and Cochin and Bombay 3,000 each. Most of them are temporary emigrants, who return after a time to their homes in Southern India. The total number of Tamils enumerated in Ceylon exceeds a million, but about half of them have been domiciled in the Island for many centuries and barely 100,000 are the offspring of recent settlers.

Malaya.—The emigration to the Straits Settlements and the Malay States is of quite recent growth, and is due almost entirely to the demand for labour on the rubber plantations. Most of the emigrants are temporary settlers, who return to their homes when they have saved a little money; and the total number of Indians enumerated there exceeds by only 12 per cent. the number who returned to India as their birthplace. Almost four-fifths of the total number are males. Here also Madras is the principal source of supply, the Punjab (8,754) being the only other province which sends an appreciable

South Africa.—In Natal, there has been a great deal of permanent settlement; and of the total number of Indians enumerated there, nearly half were born in the colony. Many of these have forgotten their native language and now talk only English. But it is in Mauritius that the process of colonisation has made most headway. The introduction of Indian coolies to work the sugar plantations dates from the emancipation of the slaves, three quarters of a century ago: and from that time onwards many of the coolies who have gone there have made the island their permanent home. Though it now contains only 35,000 persons who were born in India, the total number of Indians is 258,000, or about 70 per cent. of the whole population. A large part of the island is now owned by Indians, and they are dominant in commercial, agricultural and

RELIGIONS.

India is a land of many religions. All the was that which followed the Mahomedan great religious faiths of mankind are represented conquest, and that Christianity was first brought great religious raturs of manking are represented conquest, and that unristantity was first divided in its population by communities, whose origin to the country by the Portuguese. They also carries us back to the early history of their respective creeds. Hinduism and its offshoots, but the time of the Mahomedan conquest, Hinduism Buddhism and Jainism, are autochthonous, also field the foreign elements which found The Jews of Cochin have traditions which carry their way into the country. No doubt Greeks,

carries us receds. Hindung and Jainism, are autochthomorphisms and Jainism, are autochthomorphisms and Jainism, are autochthomorphisms and Jainism, are autochthomorphisms and Scythiaus for their escape from servitude under Cyrus in the sixth century B. C. The Syrian Christians of their escape from servitude under Cyrus in the sixth century B. C. The Syrian Christians of Malabar ascribe the introduction of Christianity and the establishment of their original Church to the Apostle St. Thomas, in the year 52 A.D. If we may hazard a conjecture, it would seem Nearly two centuries before the followers of Mahomed obtained a footing in India as conjecture, a peaceful trading colony of Arabs had observed in the case of immigrants by sea. The Malabar coast. The Paris rettlement of the country through the mountain passes in the North-West, and knew something of the land which lay a large to him, and those

STATISTICS OF RELIGIONS.

			Reli	gion				India.	British Provinces.	Native States.
IND	IA		••	••	•••			315,156,296	244,267,542	70,888,854
Hindu	••	••	••	• •	••	••	• •	217,586,892	163,621,431	53,965,461
Brahma: Arya		••			••	•••		217,337,943	163,381,380	53,956,563
Alya	••	••	••	••	••	••	••	243,445	234,841	8,604
Brahmo Sikh	••	••	••	••	••	••	••]	5,504 3,014,466	5,210 2,171,908	29 <u>4</u> 842,558
	••	••	••	••	••	••		0,014,400	2,111,000	042,000
Jain Buddhist	••	••	••	••	••	••		1,248,182 10,721,453	458,578 10,644,409	789,604 77,044
Duddinsv	••	••	••	••	••	••	•••	10,721,455	10,044,408	11,033
Zoroastrian (Parsi)	••		••	••	••		100,096	86,155	13,941
Musalman	••	••	••	••	• •	• •	• •	66,647,299	57,423,889	9,223,410
Christian						•••		3,876,203	2,492,284	1,383,919
Je₩	••	••		• •	••	• •	•••	20,980	18,524	2,456
Animistic	••	· 5°-11-		::				10,295,168	7,348,024	2,947,144
Minor Religio Not enumera				t retur	nea	••		37,101 1,608,556	2,340	34,761 1,608,556

POPULATION ACCORDING TO RELIGION AND EDUCATION (CENSUS OF 1911).

				Males.						
	Religions.			Total Population.	Illiterate.	Literate.	Literate in English.			
Hindu Sikh Jain Buddhist Parsi Muhammadan Christian Animistic Minor and Unsp			::	110,865,731 1,734,773 643,558 5,286 142 51,123 34,709,365 2,010,724 5,088,241 28,818 160,418,470	99,642,597 1,550,610 324,968 3,151,701 11,128 32,319,599 1,422,154 5,034,408 22,430 143,479,655	11,223,184 184,163 318,585 2,134,381 239,995 2,389,766 588,570 53,843 6,388	1,013,59 11,49 13,03 21,76 25,33 174,05 252,59 1,52 2,98			
Hindu Sikh Jain Buddhist Parsi Muhammadan Christian Animistic Minor and Unsp	ecified			106,720,714 1,279,667 604,629 5,435,086 48,973 31,883,812 1,865,472 5,129,303 29,263	105,905,904 1,262,387 580,509 5,117,748 17,755 31,746,005 1,613,177 5,126,316 26,355	814,810 17,280 24,120 317,338 31,218 137,807 252,295 2,987 2,908	23,650 238 209 1,383 8,347 3,940 112,643 74 1,533			
Total Females				152,996,919	151,396,156	1,600,763	152,026			
Total Population				313,415,389	294,875,811	18,539,578	1,670,387			

the same separate communities, and no attempt was made to incorporate them in the great mass of Hinduism. The prohition of seavoyage to members of the higher castes is another proof of the peculiar prejudice which ancient Indians cherished against inhabitants of countries divided from India by intervening seas.

Origin of Hinduism.—We have spoken alone of Hinduism as being autochthonous. The opinion generally held is that the ancestors of the Vedic Indians were immigrants from Central Asia. An Indian scholar of some repute has recently endeavoured to show that the received opinion is not borne out by the evidence available in the ancient literatures of India. Whatever may be the value attaching to his contention that the Vedic Indians were not immigrants or descendants of immigrants, but only a section of the indigenous population addicted to the cult of fire-worship, it is true, as he says, that there is no expression in the Vedas of a longing, lingering remembrance of a foreign homeland, such as one might expect to find in the literature of an immigrant race. This is all the more remarkable as an intense This is all the more remarkable as an intense attachment to the land they lived in is manifest in all their compositions. A Sanskrit couplet in which the names of the seven great rivers of India, the Ganges, the Junna, the Godavari, the Saraswati, the Nerbudda, the Indus and the Cauvery, are strung together in pious praise, is recited daily by millions of Hindus at their daily devotions, and helps to keep them in mind of the sanctity of the Indian Continent in Hindu eyes. If the ancient Hindus were immigrants, they not only took exceptional care to blot out all memories of the land from which they came from their own minds, but they also strove by every means in their power to bind the reverence and love in their power to bind the reverence and love of their posterity to India as the land par excellence of religion and morality, so much so that the name Hindu, in the orthodox accoptance of the term, is not applicable to anyone ceptance of the term, is not applicable to anyone who is not born in India. If the ancestors of the Hindus were foreigners in India, they must have set themselves, as a matter of deliberate policy, to intertwine the deepest affections and the highest aspirations of their race with the land in which they had settled, to the entire exclusion of the land whence they

Evolution of Hinduism.—Following_ from Evolution of Hinduism.—Following from the theory that the ancestors of the Hinduis were immigrants from Central Asia, is the explanation generally given of the varieties of religious beliefs and social practices to found within the pale of Hinduism. Hinduism, it is the common idea was gringing. it is the common idea, was originally a pure and simple creed which has had to compromise with the Animism of the population, amongst whom it spread, by accepting several of its whom it spread, by accepting several of its godlings and superstitions. The greatest obstacle in the way of this explanation is that

who came from beyond the sea were looked upon as beings of a different clay. They were Moreover, a compromise implies selection and treated hospitably, and in course of time they assimilated much of the influences of their neutrosted with the duty of selection. As Hindu environment. But they remained all a fact, however, we find that Hinduism has rejection and the existence of some agency entrusted with the duty of selection. As a fact, however, we find that Hinduism has exercised very little selection, and that it a fact, however, we must that a mindism has exercised very little selection, and that it covers practically all the beliefs and customs which prevail amongst the tribes who are included within its pale. Such a state of things is more consonant with the view that the owner forms of Hinduism are highly unland. the purer forms of Hinduism are highly evolved stages of the cruder forms which are still observed by the less educated and prosperous sections of the community. This view, namely, that the higher forms of Hinduism are evolved from lower ones, rather than that the latter are corruptions of the former, gains support from what is now generally accepted as being the true explanation of the origin of certain social customs. Twenty years ago, it was generally held that the custom of child marriages, for instance, was of sacerdotal origin and was most largely prevalent amongst the higher castes from whom it spread to the lower. Recently, however, it has been proved that child marriages are prevalent far more largely and in a far grosser form amongst the lowest castes than amongst the higher castes, and that amongst the latter, it is a survival from the times when the caste system was less rigid the times when the caste system was less rigid and intermarriages, that is to say, the taking of wives by the higher castes from the lower, were common. It may be added that the two most characteristic beliefs of Hinduism, namely, that in the transmigration of souls and in the law of Karma or retribution, are held with, if anything, more tenacity by the lower than by the higher castes.

> Scope of Hinduism.—From this point of view, the varying beliefs and customs which go under the name of Hinduism not only offer no difficulties, but furnish the right clue to the no difficulties, but furnish the right cite to the understanding of this unique socio-religious system. They explain why the term "religion" as applied to Hinduism does not adequately express its scope and method. Hinduism has no settled creeds which are obligatory on every Hindu "X" conference and add only wifern Hindu. It enforces no fixed and uniform moral standards on the innumerable sects and castes which bear its name. It extends its custes which bear its name, to extends to suffrages to monogamous, polygamous and even polyandrous unions between the sexes and, in the case of the so-called devadasis, countenances a life of open irregularity. An Indian newspaper recently instituted an interesting discussion on the question "Who is a Hindu." An eminent Hindu lawyer, who subsequently trees to be a sufface of one of the is a Hindu." An eminent Hindu lawyer, who subsequently rose to be a judge of one of the Indian High Courts, laid down that a Hindu was one to whom the Indian Courts would apply the Hindu law. The learned lawyer, however, forgot that there are Mahomedan castes which follow the Hindu law in regard to the inheritance of a the Hindu law in regard to the inheritance of and succession to property.

And yet, though Hinduism refuses to conform to almost every one of the ideas which we usually associate with the term "religion," it is impossible to deny that it occupies a unique there is no evidence whatsoever of any organised missionary activity among the Hindus at any time. The immense distances and the state of the world and the reason why it does not fit into our definition of religion is that it represents a fundamentally different that the results of religious states and the state of the world of at any time. The immense distances and the is that it represents a fundamentally different absence of means of communication, would line of evolution in the history of religious

OCCUPATIONS OF THE INDIAN PEOPLES.

-											
	INDIA	••		••	••	••		••	••		313,470,014
A.—PRO	DUCTION OF	RAW M.	ATERL	ALS							227,030,092
	xploitation of t			the Eart	h						226,550,483
	asture and ag		,	••	••	••	••	••	••		224,695,900
(a)	Ordinary cult Growing of sp	ivation ecial pro	ducts	and me	rket i	zarden	ing	• • •	••	::	216,787,137 2,012,508
	Forestry	••	•••	••	•••	••				-:-	672,098
	Raising of far										5,176,104
(e) Fisl	Raising of sma	allanima ing	als	••	::	••	••	••	••	::	48,063 1,854,583
	Extraction of B	_								Ì	529,609
11,	Mines	• •		••	::	• • •	• • •	::	••		375,927
	Quarries of h Salt, etc.		s	••	••	••	••	••	• •	••	75,424 78,258
			••		••	••	••	••	••	••	
B.—PRI	EPARATION AN	D SUPPI	X OF	MATER	IAL ST	JBSTA1	NCES	••	••	••	58,191,121
III.—	-Industry	••	• •	••	••	••	••	••	••	•••	35,323,041 8,306,501
	Textiles Hides, skins a	and hard	mate	rials fro	m the	anima	l kingd	lom	::	::	698,741
	Wood									- 1	3,799,892
	Metals	::	::	::	::	::	::	::	••		1,861,445
	Ceramics	• •	••	••	••	٠.,	••	• •	• •	••	2,240,210
	Chemical pro		operly	so calle	ed, and	d anal	ogous	••			1,241,58 7 3,711,675
	Food industries of	ies dress an	d the	toilet	• • •	• • •	• • • • • • • • • • • • • • • • • • • •	::	::		7,750,609
	Furniture ind	lugt ri es									39,268
	Building indu	ıstries	••	••		::	::	::	::	::	2,062,403
	Construction Production	of mean and trai	s of tr smiss	ansport	: ohvsic	al forc	es (hea	t, light.	electi	rici-	66,056 14,384
	tv. motive	power, e	etc.).								2,141,665
	Industries of sciences.					; w no	eracute	аши и	anus	inu	
	Industries co	ncerned	with 1	refuse m	atter		••	••	••	••	1,388,515
IV.	Transport .	••		••		• •	••				5,028,900
	Transport by Transport by			::	::	<i>::</i>		••	• • •	::	982,766 2,781,938
			••	. ••	••	••					1,062,498
	Transport by Post Office, t	ran elegraph	and t	telephon	e serv	ices	• • • • • • • • • • • • • • • • • • • •	••	::	::	201,781
v4	Prade										17,880,102
72	Banks, estab					e and			::	::	1,220,187
	Brokerage, co	mmissic	n and	export		••	••	••	••		240,858
	Trade in text		•• ,		••	••	••	••	• •		1,277,469 296,712
	Trade in skin		er and	turs	::	••	• • • • • • • • • • • • • • • • • • • •	••		::	224,838
	Trade in met	-1-	•								59,766
	Trade in pot		••	::	••	••	::	::	::		101,981
	Trade in che	mical pr	oducte	3	••	••	••	••	••	••	171,927
	Hotels, cafes						••		••		719,052 9,478,868
	Other trade in Trade in clot				в.	• •	• • •	••	::		306,701
	Trade in fur	iture			••	::		••	••		178,413

thought. In other races the line of evolution was from polytheism to monotheism, but in ladia. If was from polytheism to the higher pantheism. Contrasting the development of the Judaic idea of God with that of the Hindus, br. Harold Haffding observes "With the Hindus for Hardley and College of God with that of the Hindus, br. Harold Haffding observes "With the Hindus flinds rere was no God who claimed sole sole sway; they went back to the power which makes all gods what they are, to the inner asking and needs which find vent for themselves in prayer and sacrifice. Following aspirations and needs which find vent for themselves in prayer and sacrifice. Following an extremely remarkable line of thought that which drives men to worship gods was little fregarded as the true divine power. Brahma meant originally the magical, creative word of prayer, but it atterwards came to denote the principle of existence itself, so that we have a transition from the idea or motion towards to that of its goal, from prayer to the object addressed in prayer." The Indian philosopher saw the whole universe transfused and overspread with Deity. He perceived how evil was being perpetually transformed to good in the cosmic process spreading out before the ownich the secret was known only to the Supreme being. No European writer has caught the first of the non-reality of the phenomenal universe, but they did not discard faith and service than on knowledge, but they did not discard the path not of alternative service than on knowledge, but they did not discard the path of service conneived the more of Hinduism that the phenomenal universe, laid more stress on faith and service than on knowledge, but they did not discard the path of service had more trees of faith and service than on knowledge, but they did not discard the path of service conneived the manth of path of the present misformed to good in the cosmic process spreading out before the process of which the secret was known only to the Supreme Being was the process of the non-realit

Before beginning, and without an end, As space eternal and as surety sure, Is fixed a Power divine which moves to good.

Only its laws endure.

It is not marred nor stayed in any use, All liketh it; the sweet white milk it brings To mothers' breasts, it brings the white drops too.

Wherewith the young snake stings. It slayeth and it saveth, nowise moved Except unto the working out of doom; Its threads are Love and Life; Death and Pain

The shuttles of its loom.

It maketh and unmaketh, mending all;

What it hath wrought is better than had
been:

Slow grows the splendid pattern that it plans

Its wistful hands between.

The ethical values of Hinduism are not different from those of other great religions. Like them it attaches little importance to the qualities which make for wordly success, and most importance to self-sacrifice, humility and kindiness to all. Only its methods differ. On the whole, however, the Hindu socioreligious scheme, owing to its tendency to make the individual human being a passive instrument in the hands of a Higher Power instead of an active co-operator with it, has favoured stability at the expense of progress.

Hindu sects.—Hinduism is made up of many sects and cults. It is usual to speak of Hinduism as it was before Buddhism, as a single creed, but this is because the literature that has come down to us is the literature of the sect that came to superseig elicity.

the lines, discover the existence of rival sects. Even the Vedas themselves are the literature probably of one of several sects which happened to be gifted with a talent for letters. The rapid multiplication of sects, however, was undoubtedly encouraged by the introduction of idol worship in imitation of the practice of decadent Buddhism. Hindu religious philosophers recognised three ways of salvation. philosophers recognised three ways of salvation, namely, the way of knowledge, the way of faith and the way of service. Every sect of flinduism recognises the value of all these three ways, but it differs as to the relative importance to be attached to each. The sect of the great philosopher, Sankaracharys, who maintained that the Supreme Being was the only Reality and that all the phenomenal universe was Maya or illusion, and that salvation came from the realisation of this fact, did not discard faith and service altogether, but only gave these a subordinate position in his scheme of religion. Ramanuja, Madhya in his scheme of religion. Ramanuja, Madhva and Vallabhacharya who followed him and, in more or less degree, refuted his doctrine of the non-reality of the phenomenal universe, laid more stress on faith and service than on knowledge, but they did not discard the path of knowledge altogether. It should be mentioned here that it has been the great misfor-tune of Hinduism that the path of service has come to mean the path not of altruistic service to mankind but the path of service conceived in a ceremonial sense to priests, religious recluses and mendicants and to idols. It is the great aim of the modern religious reform movements such as the Arya Samaj and the Brahma Samaj to rescue the path of service from this spurious interpretation and to make altruistic social service an integral part of religion. The question of sect, however, does not play a important part in Hinduism. Except very important part in Hinduism. Except in Southern and to a much smaller extent, in Western India, the great mass of the Hindus are not sectaries. In Southern India, the Vaishnavas and Madhvas will on no account, worship Shiva or visit a temple dedicated to him. The Lingayaths are a Shiva sect found in the Karnatak districts of the Bombay and Madras Presidencies, and in Mysore, and they have an invincible repugnance to the worship of Vishnu. But these are exceptional instances. But so far as the bulk of the Hindus are con-cerned, they resort to the nearest shrine whether it be dedicated to Shiva or Vishnu. The attitude of Hinduism to other religions is that they are each of them the most suitable path to salvation for the people who are born in them—that they are all several roads which lead to Heaven. For this reason Hinduism has never been a proselytising religion. This has proved a disadvantage to it face to face with such religions as Mahomedanism and Christianity which not only admit converts, but are actively engaged in seeking them. The proportion of Hindus to the total population has steadily diminished during the last forty years, partly owing to conversions to other religious particularly from amongst the lower classes. Conversions from famong members of the higher and literate classes have practically ceased. cally ceased.

the sect that came to supersede all others. Hinduism.—The Hindus number 217,586,892 or 69.4 per cent. of the total population of

OCCUPATIONS OF THE INDIAN PEOPLES-ctd.

	Trade in	buildi	ngm	aterial	s _.	• • •	• • •	• •			• •	84,618
	Trade in	mean	of tr	anspo	rt	• •	••	• •	• •	• •	• •	239,396
	Trade in	fuel		••	••	• •	••	••	••	••	•	524,962
	Trade in arts an	article d scie	es of l	uxury	and	those	pertair	ning to	letters	and th	10	522,130
	Trade in			er								3,695
	Trade of	other	sorts		•••	- ::	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		: .	::1	2,192,584
						• • •	• • •	•••		-	- 1	_,,
C.—PUB	LIC ADMI	nistr	ATION	S AND	LIBI	BRAL A	RTS		••			10,912,128
VI	Public Fo	rce										2,398,586
	Army		••	••	•••							665,278
•	Navy						• • •		• • •			4,640
	Police .		• •	••	••	• •	••	••	••			1,728,669
VII.—	Public A	lmini	tratio	n		••	••					2,648,005
VIII	-Professi	ons as	d Táb	eral A	ris			••			i	5,325,857
	Religion					::	::	• • • • • • • • • • • • • • • • • • • •	::	• • • • • • • • • • • • • • • • • • • •	::	2,769,489
	Law .		••	••	••	•••		::		::	::	303,408
	Medicine										ł	202.000
	Instruction		• •	••	••	••	••	• •	• •	••	••	626,900
	Letters a			datana	••	••	• •	• • •	• •	••	• • •	674,393
	recters at	iu art	s and	scienc	es	••	••	••	••	• •	• • •	951,167
IX	Persons liv	ring p	rincip	ally on	their	Incom	e	••	• •	••	••	540,175
D -Mis	CELLANEO	us	••	••	••	••	••	••	••	••		17,286,678
X.—D	omestic Se	rvice		••	••	••	••	••	••		•-	4,599,080
XI.—I	[nsufficien	tly des	cribed	Occup	pation		••	••	••	••		9,236,210
X11	Unprodu	ctive										3,451,381
	Inmates o	of jails	, asyl	ums a	nd ho	spitals			• • • • • • • • • • • • • • • • • • • •		.:	132,610
	Beggars,	vagra	ıts an	d pros	titute	8	•••	•••	•••	•••		3,318,771
		_		-						-		

DISTRIBUTION OF THE POPULATION.

·	-				India.	British Provinces.	Native States.
1					2	3	4
Area in square miles					1,802,657	1,093,074	709,588
Number of Towns and Villages					722,495	538,800	183,686
(a) Towns					2,153	1,452	701
(b) Villages	• •	••	• •		720,342	537,857	182,985
Number of Occupied Houses					63,710,179	49.140.947	14,569,232
(a) In Towns	• •		• • •		6,037,456	4,409,121	1,628,335
(b) In Villages					57,672,723	44,731,826	12,940,897
Total Population	•••	•••			315,156,396	244,267,542	70,888,854
(a) In Towns	::	- ::	::		29,748,228	22.817.715	6,930,513
(b) In Villages	•••		::		285,408,168	221,449,827	63,958,341
Males	•••	::	• • • • • • • • • • • • • • • • • • • •		161,338,935	124,873,691	36,465,244
(a) In Torma		• • • • • • • • • • • • • • • • • • • •	::	• • • • • • • • • • • • • • • • • • • •	16,108,304	12,525,830	3,582,474
/h) In Willower	••			• • • • • • • • • • • • • • • • • • • •	145,230,631	112,347,861	82,882,770
Pamalan	••	••	• • •	::	153,817,461	119,393,851	34,423,610
(a) In Torms	••	••	::		13,639,924	10,291,885	8,348,039
(b) In Villages	••	::	::	::	140,177,587	109,101,966	31,075,571

India. Buddhists and Jains together number 11,969,635. Thus 229,556,527 or about 73 per cent. of the Indian people depend for their spiritual sustenance on Hinduism and its offshoots.

The Buddhist population is mostly Burmese, Buddhism having ceased a thousand years ago to count as a leading religion in the land of its birth. Several reasons are usually given to account for the hestility of Hinduism to Buddhism, such as that Buddha denied the authority of the Vedas and the existence of God and of the human soul jainism did all this, and yet Jains to-day occupy a recognised position in the Hindu social system. The real reason for the Hindu social system. The real reason for the Hindu social system influenced by in the later years of its prevalence in India, the alien Mongolian consciousness. Hinduism has always been extremely tolerant of indigenous heresies, but it is jealous of outside influence. Indian Buddhism, too, had become extremely corrupt and superstitious long before Hinduism re-established itself as the religion pre-eminently of the Indian people.

Other Indigenous Religions.—Buddhism and Jainiem were originally only sects of Hinduism. Jainism even now is not so sharply divided from the latter religion as Buddhism is. Jains are everywhere a recognised section of Hindu Society, and in some parts of the country there has been an increasing tendency on their part to return themselves at the Cansus as Hindus. The outstanding feature of Jainism is the extreme sanctivy in which all forms of life are held. The Jains are generally bankers and traders. Their number at the last Census was 1,248,182, the apparent decline being due to the tendency noted above for Jains to return themselves as Hindus. Buddhism is professed but by few persons in India. The Buddhist population of the Indian Empire is mainly Burmese. Their number is 10,721,433. The founders of Buddhism and Jainism are believed to have been contemporaries, whose date is assigned somewhere in the 5th Century B.C. Sikhism which is the next important indigenous religion, had its origin many centuries later. The founder of Sikhism,

Guru Nanak, flourished in the latter half of the 15th Century of the Christian era. teaching amounted to nothing more than pure Theim. He taught that there is only one true God, he condemned idolatry, proclaimed the futility of pilgrimages and rites and cere-monics, and declared that the path to salvation lies through good deeds combined with devotion to the Supreme Being. He preached the brotherhood of men. Sikhism continued to exist as a pacific cult till about the end of the seventeenth century, when the persecutions of Aurangzeb had the effect of converting it into a militant creed. This momentous change was accomplished under the direction of Guru Govind, the tenth and last of the Gurus: "I shall send a sparrow," he once exclaimed and "lo! the imperial falcons will fly before it." On his death-bed, he exhorted his followers to regard the Granth, the sacred book of the regard the Granth, the sacred book of the Sikhs, as their Guru, to look upon it as the person of the living Guru. After his death, Sikhism passed through a period of deepest gloom, but it soon recovered and in 1758 the Sikhis entered Lahore in triumph. The teach-ings of Guru Nanak have profoundly affected Hindu thought and life in the Punjab, though the number of persons professing the Sikh religion is only 3,014,466 according to the 1911 Census. This represents an increase of over Census. This represents an increase of over 40 per cent. since 1901. Two other religious movements, offshoots of Hinduism, remain to be mentioned, namely, the Brahmo-Samaj and the Arya-Samaj. Both of them are less than one hundred years old. The founder of the former was Raja Ram Mohan Roy, and of the latter, Swami Dayanand Saraswati. The Brahmo-Samaj does not believe in an infallible scripture, while the Arya-Samaj accepts the Vedas as Divinely revealed. Both the movements are opposed to idolatry and favour social reform. The Brahmo movement, appealing as it does to the cultured intellect, has not been making as much progress as the Arya-Samaj. The number of persons professing each of these creeds is 5,504 and 243,445 respectively. The stronghold of the Arya-Samaj is the Punjab, that of the Brahmo-Samaj, Bengal.

Non-Indian Religions.

Mahomedanism.—Of non-Indian religions, that is, of religious which had their origin outside India the religion which has the largest number of followers in this country is Mahomedanism. One hundred years before the Mussulmans obtained a foothold in Sind by right of conquest, they were settled in Cochin as traders and missionaries. The author of Cochin Thles and Castes refers to a tradition that in the 7th Century, a Mahomedan merchant named Malak Medina, accompanied by some priests, had settled in or near Mangalore. The Kollam era of Malabar dates, according to popular tradition, from the departure of Cheruman Perumal, the last of the Perumal Kings, to Arabia, on his conversion to Islam. The date of the commencement of the era is the 25th August 825 A.D. For about twelve Centuries, Islam has existed in India side by side with Hinduism. During that period it has been greatly influenced by Hindu ideas and institutions. Moreover, the Indian converts to Mahomedanism have to a large extent retained

the customs and beliefs of Hindulsm. The writer of the article on religions of India in the new edition of the Imperial Gazetter observes of Islam in India: "If it has gained some converts from Hinduism it has borrowed from it many of those practices which distinguish it from the original faith of Arabla. By degrees the fervid enthusiasm of the early raiders was softened down; the two religions learned to live side by side; and if the Mahomedan of the later days could never conceal his contempt for the faith of his 'pagan' neighbours, he came to understand that it could not be destroyed by persecution. From the Hindus Islam derived much of its demonology, the belief in witchcraft, and the veneration of departed Pirs or Saints. The village Musulman of the present day employs the Hindu astrologer to fix a lucky day for a marriage, or will pray to the village god to grant a son to his wife. This is the more natural; because conversion to Islam, whenever it does occur, is largely from the lower castes." Mahomedanism has

two main and several minor sects. The major | sects are the Shiah and the Sunni. The great | majority of Indian Mussulmans are of the latter sect. The Punjab and Sind in the North-West and East Bengal in the North-East are the strongholds of Islam in India. The Mussulman population of India, according to the Census of 1911, is 66,647,299. Of this number no less than 24 millions are in Bengal, about 12 millions in the Punjab, and about 5 millions in the United Provinces. Amongst Native States, Kashmere has the largest Mussulman population, about 24 millions.

Christianity.-Indian Christianity has an Christianity.—Indian Christianity has an even longer history than Indian Mahomedanism. According to the tradition prevailing among the Syrian Christians in Malabar, the introduction of Christianity and the establishment of the Original Church in Malabar in the year 52 A.D. are ascribed to the Apostle St. Thomas. whollanded at Cranganore or Musiris, converted many Brahmins and others, ordained two Presbyters, and also founded seven churches, six in Travancore and Cochin, and the seventh in South Malabar (Cochin Castes and Tribes, Vol. II. Chapter XVI, p. 435). The history of Roman Catholicism in India dates from the beginning of the sixteenth Century. The first Protestant mission was established two centuries later by the Lutherans who started their work in Tranquebar in South India under Danish protection. The Christian population, according to the last Census, numbers 3,876,203. Nearly 24 millions are inhabitants of the Madras Presidency and the Native States connected with it. Bihar and Bombay have each over 200,000 Christians.

Zoroastrianism .- This religion was brought or brought back to India in 717 A.D. by Parsis who, fleeing from persecution at the hands of the Mussulman conquerors of their native land, arrived at the little port of Sanjan, sixty miles north of Bombay in that year. According to the Indian antiquarian scholar, the late Rajen-draial Mitra, the ancestors of the Hindus and Parsis dwelt together in the Punjab, when a religious schism led to the latter retracing their steps to Persia. This theory derives probability from the names of the beneficient and malefic deities referred to in the Hindu and Parsi sacred books: "What is most striking in the

relations of the two faiths, is," writes Mr. Crooke in his article on the Religions of India in the Imperial Gazetteer: "that in the Avesta the evil spirits are known as Dacva (modern Persian Div), a term which the Indo-Aryans applied, in the form Deva, to the spirits of light. By a similar inversion, Asura, the name of the gods in the Rig Veda, suffered degradation and at a latter date was applied to evil spirits; but in Iran, Ahura was consistently applied in the higher sense to the delty, especially as Ahura Mazdıs, the wise, to the Supreme (ied." The Parsis have two sects. The principal difference between them appears to be that the contrepect between them appears to be that the holy days of the one precede those of the other by about a month. The number of Parsis, according to the last Census, is 100,096. The majority of the Parsis live in Bombay.

Jews.—The Beni-Israel at Kolaba, in Bombay and the Jews at Cochin are descendants of ancient Colonies. The Kolaba Colony

dates back to the sixth century, and the Cochin colony to the second century A.D. Both Jewish colonies recognize a white and black section, the latter being those who have more completely coalesced with the native population. The Jews numbered 20,980 at the Census of 1911.

Animists.—Since the Census of 1891, an attempt has been made to enumerate the "Animists" separately from Alexander (Animists) separately from Alexander (Animists) "Animists" separately from the Hindus. 10,295,168 persons are classed as Animists, according to the last Census. The difference between Animism and Anthropomorphism has been stated by Professor Westermark, to be that, while the animist worships inanimate objects as gods, Anthropomorphism consists in the worship of such objects as representatives and reflection of the Deity. As a subtle dis-tinction of this kind is not within the grasp tinction of this kind is not within the grasp of the average enumerator, the category of Animists in the Census Schedules is largely onjectural. Mr. Crooke in the Imperial Gazetteer observes "Such a classification is of no practical value, simply because it ignores the fact that the fundamental religion of the majority of the people—Hindu, Buddhist, or even Mussulman is mainly Animistic. The pressure may nompulie working the construction peasant may nominally worship the greater gods; but where trouble comes in the shape of disease, drought, or famine, it is from the older gods that he seeks relief."

SOCIAL INSTITUTIONS.

Uniformity of Indian Social Life.— Though India is a land of many religions and though each religious community has, as a rule, lived apart from the other communities for centuries, still there is a considerable uniformity in the arrangements and institutions of their social life. The social system of the Hindus is the type to which all other communities domiciled in the country have hitherto tended to conform. To a large extent, this uniformity of social arrangements is clearly due to the fact that, amongst the Mahomedans and Indian Christians, for instance, the converts from Hinduism continued to retain their old ideas in regard to social conduct. To a smaller extent, the motive which influenced life of the Indian population as whole. It them to conform to Hindu social ideal has been the convenience thereby caused in business intercourse with their Hindu neighbours.

Thus, we find, there is scarcely any community in India which has not been more or less infected by the caste spirit. The Jews, the Paris, the Christians, and even the Mahomedans have been influenced by it. Other Hindu social institutions and customs which have exerted a similar influence are the joint family system, the custom of child marriages, and of enforced widowhood, and the feeling that contact with persons engaged in certain occupations is polluting. In view of this general similarity of the social institutions of the several

made by many of the Indian communities | to which reference is made in the foregoing made by many of the Indian communities to discard whatever is in disaccord with the original simplicity of their respective faiths. But this movement has as yet touched no more than the highly educated fringe, and even among the latter, there are thoughtful men who distrust "revivals" as substitutes for reform.

Caste.—The most conspicuous social institution of India is Caste. Caste is based on birth. The effect of caste is to divide society into a number of vertical sections, and not as in modern countries, into horizontal sections. The economic and cultural differences among the members of each caste are great. The millionaire and the pauper, the scholar and the illiterate of one caste, form a social unit. The rich man of one caste must seek a husband for his daughter among the poor of his caste, if he cannot find one of a corresponding position in life. He can on no account think of marrying an life. He can on no account think of marrying her to a young man of another caste, though as regards culture and social position, he may be a most desirable match. Thus, each caste is, within itself, a democracy in which the poor and the lowly have always the upper hand over the rich and the high-placed. In this way, the system of caste has, in the past, served as a substitute for State relief of the poor by means of special laws and institutions. To some extent, this is the case even now, but the economic pressure of these days, and the influence of Western education, are profoundly modifying the conception of caste. The growth of the English-educated class on the one hand, and of the modern industrial and commercial class of Indians, on the other with common aspirations and interests, is a factor calculated to undermine the importance of caste. Although for purely social purposes, it will, no doubt, inger for many years longer, it is bound ultimately to collapse before the intellectual and economic influences which are moulding and economic inhuences when are motioning modern India. The question how caste originated has been discussed by several learned Orientalists, but the latest and most authoritative opinion is that its rise and growth were due to several causes, the principal of them being differences of race and occupation. The occupation. The four original castes of the Hindus have multiplied to nearly two thousand, owing to the fissiparous tendencies of Hindu social life. fissiparous tendencies of timou social life.

Some large castes consist of many thousands
of families, while others, notably in Gujarat,
comprise scarcely a hundred houses. Among
Indian Mahomedans, there are several communities which are virtually castes, though
they are not so rigidly closed as Hindu castes. they are not so rigidly closed as mindu castes, Indian Christian converts, in some parts of the country, insist on maintaining the distinctions of their original castes, and in a recent case, one caste of Indian Christians contested, in a Court of Law, a ruling of their Bishop distinctions of the castes of their country that original castes of their castes of thei allowing the exclusive use of a part of their church to members of that caste. The Parsis are practically a caste in themselves. The observations regarding caste apply more or less to the institution of the joint family of which really the former is an extension. institution is rapidly breaking-up, though the rigidity of the Hindu law of succession operates wholly in its favour.

paragraph, had its origin in efforts made by the Government of India, with the co-operation and support of enlightened Hindus, in the and support or enigntened rindus, in the early part of the last century to put down the practice of sati, that is, burning the widow along with her dead husband. This cruel practice, which prevailed particularly among the high caste Hindus in Bengal, was eventually suppressed by legislation. But the discussions suppressed by legislation. But the discussions which ensued in connection with sati question led to the exposure of the hard lot of Hindu widows as a class. Remarriage was prohibited and as child marriages were common, several young girls were condemned to lead a life of celibacy on the death of their husbands. This led to immorality and infanticide by young widows, who were anxious to hide their shame was not infrequent. Led by the Pandit Ishwar Chandra Vidyasagara, a very learned Sanskrit scholar, a movement began which had for its object the removal of the ban on the remarriage of Hindu widows. The Pandit was able to prove from the Hindu religious books that the prove from the Hindu religious books that with remarriage of widows had the sanction of antiquity. But it was necessary in order to establish the validity of the remarriage of Hindu widows beyond doubt, to have a law passed by the Legislative Council of the Governor-General of India. The Pandit and his followers memorialised Government. There was strong opposition from the orthodox masses, but the Government of the day were convinced that justice was on the side of the reformers, and the Hindu Widow Remarriage Act was passed. The controversy on the question of the remarriage of widows led to other consequences. It was felt that the age at which girls were married was absurdly low, and that child married was absurdly low, and that child marriages were at the root of many social evils. It was also realised that the general illiteracy of Indian women was the greatest obstacle in the way of reforming social customs, and that education of women should be the first plank in the social reform platform. The carliest social reformers in India were the Brahmo Samajists who discarded idolatry and caste. Other reformers since then have endeavoured to propagate ideas of social reformentirely on a secular basis. The Indian National Social Conference is their principal organisation, and it is supported by Provincial and District Conferences and Associations. Social reform ideas have made considerable headway during the last twenty-five years. Widow marriages are of weekly occurrence in some provinces. The restrictions of caste as to inter-dining and sea-voyage have lost much of their force. The age at which girls are married is steadily, if slowly, rising. The education of girls is making rapid progress. An increasing number of them go to high Schools and Colleges every year. But the most significant testimony to the spread of Brahmo Samajists who discarded idolatry most significant testimony to the spread cf social reform ideas in the country is the remarkable diminution in the volume and weight of the opposition to them. The number of journals devoted to the social reform cause is increasing, and some of the newspapers which had made themselves conspicuous by their virulent opposition to social reform twenty The Social Reform Movement.—The years ago, now recognise its utility and imsocial reform movement among the Hindus portance.

SEX.

In India as a whole the proportion of females per thousand males rose steadily from 954 in 1881 to 963 in 1901. It has now fallen again to exactly the same figure as in 1881. The important aspect of these figures is the great important aspect of client lighted is the glacu-contrast they show between India and Europe, where the number of females per thousand males varies from 1,093 in Portugal, and 1,068 in England and Wales, to 1,013 in Belgium, and 1,003 in Ireland. In drawing attention to this disparity the Chief Census Officer argued that the relatively high mortality amongst females was sufficient to account for the difference stated. Then in summarising the causes of this relatively higher mortality he said: "In Europe, boys and girls are equally well cared for. Consequently, as boys are constitutionally more delicate than girls, by the time adolescence is reached, a higher death-rate has already obliterated the excess of males and produced a numerical equality between the two sexes. Later on in life, the mortality amongst males remains relatively high, owing to the risks to which they are exposed in their daily avocations; hard work, exposure in all weathers and accidents of various kinds combine to make their mean duration of life less than that of women, who are for the most part engaged in domestic duties or occupations of a lighter nature. Hence the proportion of females steadily rises. In India, the conditions are altogether different. Sons are earnestly longed for, while daughters are not wanted. This feeling exists everywhere, but it

varies greatly in intensity. It is strongest amongst communities such as the higher Rajput clans, where large sums have to be paid to obtain a husband of suitable status and the cost of the marriage ceremony is excessive and those like the Pathans who despise women and hold in derision the father of daughters. Sometimes the prejudice against daughters is so strong that abortion is resorted to when the midwife predicts the birth of a girl. Formerly, female infants were frequently killed as soon as they were born, and even now they are very commonly neglected to a greater or less extent. The advantage which nature gives to girls is thus neutralised by the nature gives to girrs is thus neutralisate by the reatment accorded to them by their parents. To make matters worse, they are given in marriage at a very early age, and cohabitation begins long before they are physically fit for it. To the evils of early child-bearing must be added unskilful midwifery; and the combined result is an excessive mortality amongst young mothers. In India almost every woman has to face these dangers. Lastly, amongst the lower classes, who form the bulk of the population, the women often have to work as hard as, and sometimes harder than, the men, and they are thus less favourably situated in respect of their occupations than their sisters in Europe." It is but fair to say that this conclusion has been challenged by many Indian writers, who attri-bute far greater importance than the Chief Census Officer to the omission of females at the enumeration.

MARRIAGE.

Although recognised in some backward parts, polyandry is now rare in India. With orthodox Hindus marriage is a religious sacrament which cannot be revoked. The Mahomedans allow a man to divorce his wife without any special reason, but he then becomes liable to pay her dower. The permission is seldom acted upon. The Buddhists of Burma regard marriage merely as a civil contract, and either side can annul it. The Hindu law places no restriction on the number of wives a man may have; but most castes object to their members having more than one wife, except for special reasons. A Mahomedan may have four wives, but he also in practice is generally monogamous.

Marriage Statistics.—In the population of ages and roligions, about haif the males and one-third of the females are unmarried; 46 per cent. of the males and 48 of the females are married, and 5 and 17 per cent. respectively are widowed. A reterence to the age statistics shows that the great majority of the unmarried of both sexes are very young children, three-quarters of the achieving being under 15 years of age, while a somewhat larger proportion of the spinsters are under 10; only one bachelor in 24 is over 30, and only one spinster in 14 is over 15. At the higher persons suffering from some infirmity or disfigurement, beggars, prostitutes, concubines, religious devotees and mendicants and a few members of certain hypergamous groups who have been unable to effect alliances of the kind which alone are permitted to them by the rules of their community. It is the persons of the above class

ses who contribute the 4 per cent. of the males over 40, and the 1 per cent. of the females over 30 who are not, and never have been married.

Marriage Universal.—This universality of marriage constitutes one of the most striking differences between the social practices of India and those of Western Europe. It has often been explained on the ground that, with the Hindus, marriage is a religious necessity. Every man must marry in order to beget a son who will perform his funeral rites and rescue his soul from hell. In the case of a girl it is incumbent on the parents to give her in marriage before site reaches the aco of puberty. Failure to do so is punished with social ostracism in this world and hell fire in the next. But it is not only with the Hindus that marriage is practically universal; it is almost equally so with the Malnomedans, Antimists and Buddhists.

Early Marriage.—Another striking feature of the Indian statistics as compared with those of Western Europe is the early age at which marriage takes place. According to M. Sundbarg's table showing the average distribution by age and civil condition of the people of Western Europe according to the censuses taken about the year 1880, of the population below the age of 20, only one male in 2,147 is married and one female in 142. In India on the other hand, 10 per cent. of the male, and 27 per cent. of the female, population below the age are married. The number of males below the age of 5 who are married is small, but of those aged 5 to 10, 4 per cent. are married, and of those aged 10 to

15, 13 per cent. At '15-20' the proportion rises to 32, and '20-30' to 69 per cent. Of the females under 5, one in 72 is married, of those between 5 and 10, one in ten, between 10 and 15, more than two in five, and between 15 and 20, four in five. In the whole of India there are 21 million wives under 10, and 9 million under 15 years of age. The Hindu law books inculcate marriage at a very early age, while many of the aboriginal tribes do not give their girls in wedlock until after they have attained puberty.

Widowhood.—It is only when we come to a consideration of the widowed that we find a state of things peculiarly Indian one that seems to be derived from prescriptions of the Hindu lawgivers. The proportion of widowers (5 per cent. of the total male population) does not differ greatly from that in other countries, but that of the widows is extraordinarily large, being no less than 17 per cent. of the total number of females, against only 9 per cent. in Western Europe. When we consider their distribution by age, the difference becomes more still striking, for while in western Europe only 7 per cent. of the widows are less than 40 years old, in India 28 per cent. are below this age, and 1.3 per cent. (the actual number exceeds a third of a million) are under 15, an age at which in Europe no one is even married.

The large number of widows in India is due partly to the early age at which girls are given in marriage, and partly to the disparity which often exists between the ages of husband and wife, but most of all to the prejudice against the re-marriage of widows. Many castes, especially the higher ones, forbid it altogether, and even where it is not absolutely prohibited, it is often unpopulationally and the statement of th lar. Although widow marriage is permitted by their religion, and the Prophet himself married a widow, the Mahomedans of India share the prejudice to some extent. How the re-marriage of widows first came to be objected to, it is impossible to say, but it seems highly probable that the interdiction originated amongst the Aryan Hindus, that it was confined at first to the higher castes, and that it has spread from them downwards.

infant Marriage.—It is difficult to draw from the statistics any definite conclusion as to whether infant marriage is becoming more or less common, but so far as they go, they point to a slight diminution of the practice. The figures for 1901 were abnormal owing to the famines of 1897 and 1900, and it is safer to take the year 1891 as the basis of comparison. There are now 18 Hindu girls per mille who are married at the age of '0-5' as compared with only 16 at that time, but at the age '5-10' the proportion has fallen from 146 to 132 and at 10-15' from 542 to 488. Amongst Mahomedans the proporthe atthe first mentioned age-period has fallen from 7 to 5, at the second from 83 to 65 and at the third from 474 to 393

The practice has been denounced by many social reformers, since Mr. Malabari opened the campaign a quarter of a century ago; and the Social Conference which holds its meetings annually in connection with the National Congress has made the abolition of child marriage one of the leading planks in its platform. It is, as we have seen, strongly discouraged by the Brahmos in Bengal and the Aryas in Northern India. The more enlightened members of the higher castes who do not allow widows to re-marry are beginning to realise how wrong it is to expose their daughters to the risk of lifelong widowhood, and a feeling against infant marriage is thus springing up amongst them.

In two Native States action has been taken. In Mysore an Act has been passed forbidding the marriage of girls under eight altogether. and that of girls under fourteen, with men over fifty years of age. The object of the latter provision is to prevent those unequal marriages of elderly widowers with very young girls which are popularly believed to be so disastrous to the health of the latter, and which in any case must result in a large proportion of them leading a long life of enforced widowhood. The Gaekwar of Baroda, the pioneer of so much advanced legislation, has gone further. He passed for his State in 1904, in the face of a good deal of popular opposition, an "Infant Marriage Pre-vention Act", which forbids absolutely the vention Act", which forbids absolutely the marriage of all girls below the age of nine and allows that of girls below the age of twelve and of boys below the age of sixteen, only if the par-ents first obtain the consent of a tribunal con-sisting of the local Sub-Judge and three assessors of the petitioner's caste. Consent is not supposed to be given except on special grounds, which are specified in the Act.

Widow re-marriage.—The prohibition of widow marriage is a badge of respectability. Castes do not allow it rank higher on that account in social estimation. There is a strong tendency amongst the lower Hindu castes to prohibit, or at least, to discountenance, the marriage of widows. At the other end of the social structure there is a movement in the opposite direction. Many social reformers have inveighed against the condemnation of virgin widows to perpetual widowhood, and have pointed out that the custom is a modern innovation which was unknown in Vedic times. In many provinces recently there have been cases in which such widows have been given in marriage a second time, not only amongst Brahmos and Aryas, who naturally lead the way, but also amongst orthodox Hindus. A number of such marriages have taken place amongst the Bhatias of the Bombay Presidency. It is said that in the United Provinces considerably more than a hundred widows have been re-married in the last ten years. The actual results no doubt are small so far, but the first step has been taken and the most violent of the opposition has perhaps been overcome.

EDUCATION.

The general education policy of the Government of India, and its results, are discussed in a special article Education (q. v.) But we may conveniently here indicate some of the education tendencies revealed in the census returns. Of the total population of India, only 59 persons

per mille are literate in the sense of being able to write a letter to a friend and to read his reply. The number who can decipher the pages of a printed book with more or less difficulty is no doubt much larger. Throughout India there are many Hindus who though unable to write can drone out at least the more familiar parts of the Mahabharata or Ramayana to their neighbours, who feel that it is meritorious to listen to the recital of the sacred texts, even though they, and possibly the reader also, may not always fully understand the meaning. Similarly there are many Mahomedans, especially in Northern India, who can read the Koran, though they cannot write a word. Of this minor form of literacy the census takes no count. The number of persons who are literate in the sense in which the term was used at the present census is divided very unequally between the two sexes; of the total male population, 100 per mille are able to read and write, and of the female only 10. In other words there is only one literate female to every eleven males. If we leave out of account children under 15 years of age, the number of literate males per mille is 149, and that of literate females 12.

Education by Provinces.—Thanks to the free instruction imparted in the monasteries and the absence of the pardah system which hampers the education of females in other parts of India. Burma easily holds the first place in respect of literacy. In the whole population 222 persons per mille are literate and the proportion rises to 314 amongst persons over 15 years of age. In every thousand persons of each sex, 376 males and 61 females are able to read and write. Of the other main British provinces, Bengal and Madras come next with 77 and 75 literate persons per mille respectively. Bombay follows closely on their heels. Then after a long interval, come Assam, Bihar and Orissa and the Punjab. At the bottom of the list are the United Provinces and the Central Provinces and Berar, with 34 and 33 literate persons per mille respectively. Differ-ences similar to those noticed above sometimes have their counterpart within provincial boundaries. Thus in Bihar and Orissa, the Orissa natural division has 64 literate persons per mille and the Chota Nagpur plateau only 28. In the Central Provinces and Berar, the proportion ranges from only 6 per mille in the Chota Nagpur States to 54 in the Nerbudda Valley,

Native States.—Education is more widely diffused in British provinces than in the Native States, which, taken as a whole, have only 79 males and 8 females per mille who are alterate, as compared with 113 and 11 in British territor. The three Native States of Cochin, Travancore and Baroda, however, take rank above all British provinces except Burma, while in respect of female education Cochin divides with Burma the honours of first place. The Kashmir State where only 21 persons per mille can read and write, is in this respect the most backward part of India.

By Religion.—Of the different religious communities excluding the Brahmos and Aryas whose numbers are insignificant, the Parsis easily bear the palm in respect of education. Of their total number 711 per mile are literate, and the proportion rises to 831, if persons under 15 years of age are left out of account. Of the males nearly four-fifths are literate, and of the females nearly two-thirds. Amongst those over 15 years of age only 8 per cent. of the males and 28 per cent. of the females are unable to read and write. The Jains, who are mostly traders, come next, but they have only two literate persons to every five amongst the Parsis. Half the

males are able to read and write, but only 4 per cent. of the females. It is noticeable, however, that whereas the proportion of literate males is only slightly greater than it was at the commencement of the decade, that of literate females has doubled. The Buddhists follow with one person in nd write. Here also closely on the Jains, with one four able to read and write. we see the phenomenon of a practi-cally unchanged proportion of literate males (40 per cent.) coupled with a large increase in that of literate females, which is now 6 per cent. compared with 4 per cent in 1901. The Christians (22 per cent. literate) are almost on a part with the Buddhists, but in their case the inequality between the position of the two sexes, is much smaller, the proportion of literate females being nearly half that of males. In order to ascertain how far the high position of Christians is due to the inclusion of Europeans and Anglo-Indians, the figures for Indian Christians have been worked out separately. The result is some-what surprising; for although the Indian converts to Christianity are recruited mainly from the aboriginal tribes and the lowest Hindu castes, who are almost wholly illiterate, they have, in proportion to their numbers, three times as many literate persons as the Hindus and more than four times as many as the Mahomedans. than four times as many as the Mahomedans, One Indian Christian in six is able to read and write; for males the proportion is one in four; and for females one in ten. The influence of Christianity on education is stri-kingly illustrated by the figures for the province of Bhar and Oriss, where the proportion of Bhar and Oriss, where the proportion of per mile, compared with only 6 per mile amongst their animistic congeners. It has to be remembered, moreover, that many of the Indian Christians had already passed the schoolgoing age at the time of their conversion; the proportion who are able to read and write must be far higher amongst those who were brought up as Christians.

The Sikhs come next in order of morit, with one literate person in every fifteen; for males the ratio is one in ten and for females one in seventy. Here again, while the proportion for males shows only a slight improvement, that for females has doubled during the decade. The Hindus have almost as large a proportion of literate males per mille (101) as the Sikhis, but fewer literate females (8). The Mahomedans with only 69 and 4 per mille respectively, stand at the bottom of the list, except for the Animskic tribes of whom only 11 males and 1 female in a thousand of each sex are able to read and write. The low position of the Mahomedans is due largely to the fact that they are found chiefly in the northwest of India, where all classes are backward in respect of education, and in Eastern Bengal where they consist mainly of local converts from a depressed class. In the United Provinces, Madras and the Central Provinces and Berar they stand above or on an equality with the Hindus and the same is the case in Bombay excluding Sind. In Sind the Mahomedan population is exceptionally illiterate, but in the rest of the Presidency it consists largely of traders, and education is much more widely diffused amongst them than amongst Hindus. The figures for Hindus again are a general average for all castes, high and low. It will be seen further on that some of the higher Hindu castes

are better educated than the Buddhists while others are even less so than the Animists.

Increase of Literacy.—The total number of literate persons has risen during the decade from 15.7 to 18.6 millions or by 18 per cent. The number of literate males has increased by 15 and that of literate females by 61 per cent. The proportion who are literate per thousand males has risen from 98 to 108 and the corresponding proportion for females from 7 to 10. If persons under 15 years of age be excluded, the proportions are 138 and 149 for male and 8 and 13 for females. The great improvement in the proportion of literate females is most encouraging. It is true that too much stress should not be laid on this when the actual number is still so small, but, on the other hand, it must be remembered that the rate of increase was equally great in the previous decade, so that it has now been continuous for twenty years. The total number of females over 15 years of age who can read and write is now a million and a quarter compared with less than half a million twenty years ago.

Progress.—Before leaving these statistics at the clouds and scholars we may glance briefly at the progress which they show is being made. The total number of scholars in all kinds of educational institutions in 1891 was only 3.7 millions. In 1901 it had risen to 4.4, and in 1911 to 6.3 millions. 17.7 per cent. of the population of school-going age were at school in 1912 as

compared with 14.8 per cent. in 1907. Between 1891 and 1911 the number of students in secondary schools and Arts Colleges has doubled. and the number in primary schools has increased by 67 per cent., the proportion ranging from 39 per cent. in Bombay to 204 per cent, in the United Provinces. Excluding Madras, where a school final examination has recently taken the place of the Matriculation, or Entrance, examination of the University, the number of persons passing that examination has risen from 4,079 in 1891 to 10,512 in 1911. Including Madras the number who passed the Intermediate examination in Arts or Science has risen during the same period from 2,055 to 5,141, and that of those who obtained a degree in Arts, Science, Medicine or Law from 1.437 to 5.373. The gene-Medicine or Law from 1,437 to 5,373. ral conclusion appears to be that, while the general rate of progress is far greater than would appear from a comparison of the census returns of 1901 and 1911, it is most marked in respect of secondary education.

There was a continuous fall, both in the number and the proportion of persons afflicted from 1881 to 1901; and this has now been followed by a move in the other direction. Though the proportion is smaller the number of the insane and the deaf-mutes is now about the same as it was thirty years ago. The number of lepers and blind however is less by about a sixth than it then was.

Infirmities.

The total number of persons suffering from each infirmity at each of the last four censuses is shown in the following table:—

-				.	Number afflicated.							
1	nfirmity	•		ļ	1911	1901	1891	1881				
Insane	••				81,006	66,205	74,279	81,132				
Deaf-mutes	••	••]	199,891	23 153,168	196,861	35 197,215				
Blind		••			64 443,653	52 854,104	75 458,868	86 526,748				
Lepers		••	••	••	109,094 35	97,340 33	167 126,244 46	229 134,968 57				
Nore -			otal		833,644 267	670,817 229	856,252 315	937,063 407				

Note.—The figures in heavier type represent the proportion per 100,000 of the population.

Insanity.—In respect of the prevalence of insanity, India compares very favourably with European countries. According to the latest returns, the proportion of persons thus afflicted in England and Wales is 364 per hundred thousand of the population, or fourteen times the proportion in India. This may be due partly to the fact that the English statistics include the weak-minded as well as those who are actively insanidated as well as those who are actively insanidated are confined in asylums; but the main reason no doubt is to be found in the comparatively tranquil life of the native of India. It is well known that insanity increases with the spread of civilisation, owing to the greater

wear and tear of nerve tissues involved in the struggle for existence.

The total number of insane persons exceeds by 9 per cent. that returned in 1891, but their proportion per hundred thousand of the population has fallen from 27 to 26. The decline is fairly general, the chief exceptions being the United Provinces, theNorth-West Frontier Province and four Native States in the peninsular area. In the United Provinces the number of the insane per hundred thousand of the population has risen from 12 to 18. No satisfactory explanation of this large increase is forthcoming.

Denf-Mutes.—By deaf-mutism is meant the congenital want of the sense of hearing which, in the absence of special schools, such as are only just beginning to appear in India, necessarily prevents the sufferer from learning to talk. Clear instructions were given to the enumerators to enter only persons who were congenitally afflicted. Some few, perhaps, may have been included in the return who had lost the power of speech or hearing after birth, but the total number of such mistakes is now very small. In India as a whole 74 males and 53 females per hundred thousand are deaf and dumb from birth. These proportions are much the same as those obtaining in European countries.

Blindness.—In India as a whole fourteen persons in every ten thousand of the population are blind, as compared with from eight to nine in most European countries and in the United States of America. It is a matter of common observation that blindness is ordinarily far more common in tropical countries than in those with a temperate climate. It is, however, less common in India than in parts of Eastern Europe; in Russia, for instance, nineteen persons in very ten thousand are blind.

Lepers.—In India as a whole 51 males and 18 females per hundred thousand persons of each sex are lepers. Of the different provinces, Assam suffers most, then Burma, and then in order Bihar and Orissa, the Central Provinces and Berar, Madras, Bengal, Bombay, the United Provinces, the Punjab and the North-West Frontier Province. In the two last-mentioned provinces there are only 17 male and 8 female lepers per hundred thousand of each sex. The occurrence of leprosy is very local and its prevalence varies enormously within provincial boundaries.

The number of lepers has fallen since 1891 from 126 to 109 thousand, a drop of more than 13 per cent. When it is remembered that the number of persons suffering from the other three infinities taken together has remained almost stationary, it may be concluded that the decrease in the reported number of lepers is genuine and indicates a real diminution in the prevalence of

the disease. It is possible that this is partly the result of the improved material condition of the lower castes, amongst whom leprosy is most common, and of a higher standard of cleanliness. The greater efforts which have been made in recent years to house the lepers in asylums may also have helped to prevent the disease from spreading. The total number of asylums in India's now 73, and they contain some five thousand inmates, or about 4.7 per cent, of the total number of lepers. This may not seem much, but it has to be remembered that the movement is still in its infancy and that progress has been very rapid in recent years. Com-plete statistics for 1901 are not readily available, but it is known that in the two provinces of Bengal and Bihar and Orissa, the number of lepers in asylums was then only about half what it is now. The greater part of the credit for the provision of asylums for these unfortunate persons belongs to the Mission for Lepers in India and the East, which receives liberal help from Government. Its latest report shows that there are 3,537 lepers in the forty asylums maintained by the Society.

The belief is growing that leprosy is communicated from one human being to another by some insect, and two South African doctors have recently published papers implicating the bed bug (acanhica lectularia). If this theory be correct it is obvious that the segregation of lepers in asylums must reduce the number of foci of the discase, and to that extent prevent it from spreading. It is worthy of note that in many of the districts where the discase was most prevalent in 1891, there has since been a remarkable improvement. Chamba which in 1891 had 34 lepers in every ten thousand of its population, now has only 15; in Birbhum the corresponding proportion has fallen from 35 to 16, in Bankura irom 36 to 23, in Simla 29 to 18, in Dehra Dun from 20 to 11, in Garhwai from 17 to 10, in Burdwai from 22 to 14 and in North Arakan from 28 to 20.

OCCUPATIONS.

Nowhere are the many points of difference in the local conditions of India, as compared with those of western countries, more marked than in respect of the functional distribution of the people. In England, according to the returns for 1901, of every hundred actual workers, 58 are engaged in industrial pursuits, 14 in domestic service, 13 in trade and only 8 in agriculturer, whereas in India 71 per cent. are engaged in pasture and agriculture and only 29 per cent. in all other occupations combined. The preparation and supply of material substances afford a means of livelihood to 19 per cent. of the population (actualworkers) of whom 12 per cent.arc employed in industries, 2 in transport and 5 in trade. The extraction of minerals supports only 2 persons per mille; the civil and military services support 14, the professions and liberal arts 15, and domes-tic service 18, persons per mille. The difference tic service 18, persons per mille. The difference is due to the extraordinary expansion of trade and industry which has taken place in Western Europe during the last century in consequence of the discovery of the steam engine, and to the great improvement in means of transport and the use of mechanical power in factories of all kinds which have resulted therefrom. In Germany, sixty years ago, the agricultural population was

very little less than it is at the present time in India. There are, as we shall see further on, indications that in the latter country also great changes are impending; and it is not unlikely that, as time goes on, the functional distribution of the people will become less dissimilar from that now existing in Europe.

The village,—Until the recent introduction

The village,—Until the recent introduction of western commodities, such as machine-made cloth, kerosine oil, umbrellas and the like, each village was provided with a complete equipment of artisans and menlals, and was thus almost wholly self-supporting and independent. Its chamars skinned the dead cattle, cured their hides, and made the villagers' sandlas and thongs. Local carpenters made their ploughs, local blacksmiths their shares, local potters their utensits for cooking and carrying water, and local weavers their cotton clothing. Each village had its own blarbers and scavengers. Where this system was fully developed, the duties and remuncration of each group of artisans were fixed by custom and the caste rules strictly prohibited a man from entering into competition with another of the same cast.

all had their own definite circle within which they worked, and they received a regular yearly payment for their services, which often took the form of a prescriptive share of the harvest, apportioned to them when the crop had been reaped and brought to the threshing floor.

Village sufficiency declining.—Even in India proper the village is no longer the self-contained industrial unit which it formerly was, and many disintegrating influences are at work to break down the solidarity of village life. The rising spirit of individualism, which is the result of modern education and western influences, is impelling the classes who perform the humbler functions in the economy of village life to aspire to higher and more dignified pursuits. There is also a tendency to replace the prescriptive yearly remuneration by payment for actual work done. In many parts for instance, the village Chamar is no longer allowed the hides of dead cattle as his perquisite, but receives instead a payment for removing the cattle and for skinning them; and the hides are then sold to a dealer by the owner of the animal. Improved means of communication have greatly stimulated migration and the consequent disruption of the village community, and by facilitating and lowering the cost of transport of commodities, have created a tendency for industries to become localised. The extensive importation of cheap European piecegoods and utensils, and the establishment in India itself of numerous factories of the western type, have more or less destroyed many village industries. The high prices of agricultural produce have also led many village artisans to abandon their hereding the production of the control cary craft in favour of agriculture. The extent to which this disintegration of the old village organisation is proceeding varies considerably organisation is proceeding varies considerably in different parts. The change is most noticeable in the more advanced provinces, whereas in comparatively backward tracts, like Central India and Rajputana, the old organisation remains almost intact.

Agriculture.—India is pre-eminently an agricultural country. Of its total population 72 per cent. are engaged in pasture and agriculture, viz., 69 per cent. in ordinary cultivation and 3 per cent. in market gardening, the grow-ing of magical products forester and the relation ing of special products, forestry and the raising of farm stock and small animals. The 217 of farm stock and sman annuals. Inc 244-million persons supported by ordinary cultiva-tion comprise nearly 8 million landlords, 107 million cultivators of their own or reneed land, over 41 million farm servants and field labourers and less than a million estate agents and managers and their employes.

On the average, in the whole of India, every hundred cultivators employ 25 labourers, but the number varies in the main provinces from 2 in Assam, 10 in the Punjab, 12 in Bengal and 16 in the United Provinces to 27 in Burma, 33 in Bihar and Orissa, 40 in Madras, 41 in Bombay and 59 in the Central Provinces and Berar. These local variations appear to be independent alike of the fertility of the soil and of the density of population. The conclusion seems to be that the differences are due to social, rather than economic, conditions, and that those provinces have most field labourers which contain the largest proportion of the depressed castes who are hereditary agrestic seris.

Of the two million persons supported by the growing of special products rather more than half were returned in tea, coffee, cinchona, indigo, etc., plantations and the remainder in fruit, vegetable, betel, vine, arecanut, etc. growers. Of those in the former group, nearly nine-tenths were enumerated in the tea-gardens of Assam (675,000) and Bengal (248,000) and most of the remainder in the coffee, tea, rubber and other plantations of Southern India.

Of the 16 persons per mille who were classed under Raising of farm stock, nearly four-fifths were herdsmen, shepherds, and goatherds, rather more than one-seventh were cattle and buffalo-breeders, and keepers and one-eleventh sheep, goat and pig breeders.

Fishing and Hunting.-In the whole of India about 2 million persons, or 6 per mille subsist by fishing and hunting. Of these, all but a small fraction are fishermen. About half the total number are found in the two provinces of Bengal (644,000) and Madras (313,000). The number who live by this occupation is exceptionally small in the United Provinces (38,000) and Punjab (10,000). The Punjab Superintendent says that, owing to the destruc-tion of immature fish and fry and the obstruction of the free passage of fish to their spawning grounds, the five thousand odd miles of large rivers and major canals in his Province probably produce less food than an equal volume of water in any other part of the world. The sea fisheries of India, though now known to be very valuable, are at present but little exploited.

Mines.-In the whole of India only 530,000 persons or 17 in every ten thousand are supported by the extraction of minerals. Coal mines and petroleum wells account for about half the total number (277,000). The coal fields of Bihar and Orissa support 127,000 persons and those of Bengal 115,000. In the Manbhum district which control the Manbhum district with the control the Manbhum and the statement of the Manbhum and the statement which control the Manbhum and the statement which control the Manbhum and the statement which control the Manbhum and the statement which control the Manbhum and the statement which control the Manbhum and the statement which control the statement which we can be statement which control the statement which we can be statement which will be state district, which contains the Jherria, and part of the Ranigani coal field, 111,000 persons or 7 per cent. of the inhabitants are supported by work in the collieries. Though the Ranigani coal field was discovered as far back as 1774 many years elapsed before much use was made of the discovery. In 1840 the total quantity of coal sent to Calcutta was only 36,000 tons. It rose to 220,000 tons in 1858 and to six million It rose to 220,000 tons in 1808 and to six minuse tons in 1901. Since then the growth has been very rapid. The output in 1911 from the coal mines of Bengal and Bihar and Orissa exceeded eleven million tons. In the same year the total yield for all India was twelve million tons. Of the latter quantity nearly one million tons were exported, and four million were used by the railways. The total output however is still trivial compared with that of the United Kingdom, which amounted in 1911 to 272 million tons. Most of the persons employed in the mines of Bengal and Bihar and Orissa are aborational riginal or quasi-aboriginal; about half are Bauris and Santals, and many of the remainder Bauns and Santais, and many of the remaindabelong to the Bhuiya, Chamar or Mochi, Kora, Rajwar, Dosadh and Musahar castes. The great majority are recruited locally. The coal mines of Hyderabad, Assam, the Central Provinces and Berar, and the Punjab support between them only about 27,000 persons.

Metals.—Of the 98,000 persons supported by mining for metals, more than half were returned in the Mysore State, and of these the great majority were employed in the gold mines of Kolar, where for some years past the value of the gold produced has been about £2,000,000 per annum. The mines in the Central Provinces and Berar, which support 21,000 persons, are principally for the extraction of manganese. The mining of this ore was greatly fostered by the Japanese War, which caused Russia to discontinue her exports of it for the time. There has since been a period of depression, which seems now to have come to an end. Manganese is extracted elsewhere also, e. g., in Mysore and Madras. In Burma than all lead are extracted as well as silver and wolfram in small quantities. Iron ore is worked in various places, but chiefly in Mayurbhanj which supplies the raw material for Messrs. Tata and Company's ironworks at Sakchi.

Of the 75,000 persons supported by work in quarries and mines for non-metallic minerals, other than coal and salt, two-fifths were enumerated in Bombay, where the quarrying of stone and limestone is an important business chiefly in the neighbourhood of Bombay city. In Bihar and Orissa and Madras mica mining is of some importance.

The extraction of salt and saltpetre supports 78,000 persons. Nearly a third of the total number are found in Bihar and Orissa where the Nuniyas are still largely employed in digging out and refining saltpetre. This industry is carried on also in the Punjab. Rock salt is mined in the same province and in Rajputans.

The total number of persons employed in the extraction of minerals has risen during the decade from 235 to 517 thousand. The most noticeable increase is in Coal mines and petroleum wells which enbrass nearly three times as many persons as in 1901. The bulk of the increase has occurred in Bengal and Bihar and Orissa, but it is to be noted that Hyderabad and the Central Provinces and Berar which now contribute about 12,000 persons to this group gave practically none ten years previously. Miners for metals are 22 times as numerous as they were in 1901.

Industries.—Of the 35.3 million persons dependent on Industrial occupations, nearly one-fourth, or 2.6 per cent. of the total population, are supported by textile industries. Of these, the most important, from a numerical point of view, are industries connected with cotton. The number of persons supported by cotton spinning, sizing and weaving is close on 6 millions, and another half million are employed in ginning, cleaning and pressing the raw material. The proportion of the population supported by cotton spinning, sizing and weaving is 37 per millie in the Punjab, 29 in Bombay and Rajputana, 27 in Madras, 22 in the Central Provinces and Berars and 18 in the United Provinces. In Burma, Bihar and Orissa, Bengal and Assam it is much smaller, ranging only from 8 to 11 per mille. Nearly two-fifths of a million persons are supported by rope, twine and string making, and more than a third of a million by jute spinning, pressing and weaving, of ther important textile Industries are wool spinning and weaving, and dyeing and printing, etc., each of which supports from a quarter to a third of a million persons. It is clear there

fore that so far as India is concerned, in spite of the growing number of cotton mills in the Bombay Presidency and elsewhere, the hand industry still, to a great extent, hold its own. Only 13,000 persons are employed in silk spinning and weaving factories, 7,000 in woollen factories including those for the making of carpets and even smaller numbers in other factories of this class. Some of these textile industries are very local. Those connected with jute are practically confined to Bengal, in which province nine-tenths of the persons supported by them were enumerated. More than half the persons dependent on rope, twine and string making and on working in 'other fibres' chiefly coir, and palmyra fibre were enumerated in Madras and its Native States and a quarter of those supported by wool industries in Hyderabad. Half the silk spinners and weavers are found in two provinces. Bengal and Madras. The dyeing, bleaching and printing of textiles and lace, crape and similar industries are almost unknown in Assam, Bengal, Burma and the Central Provinces and Berar.

Growth of Industry.—As compared with 1901 there has been a decrease of 6'1 per cent. in the number of persons supported by textile industries. This is due mainly to the almost complete extinction of cotton spinning by hand. Weaving by hand has also suffered severely from the competition of goods made by machinery both in Europe and in this country. There has been a large increase in the number of Indian cotton mills, but as the output per head in factories is far greater than that from hand-looms, the addition of a given number of factory hands involves the displacement of a far larger number of hand workers.

Hides.—As compared with 1901, a large decilue in the number returned as general workers in hides is partly compensated for by an increase in shee, boot and sandal makers. In the two heads taken together there has been a drop of about 6 per cent. During the same period the number of hide dealers has more than doubled. Owing to the growing demand for hides in Europe and America and the resulting high prices, the export trade in hides has been greatly stimulated. The local cobler, on the other hand, having to pay more for his raw material and feeling the increasing competition of machine-made goods has been tempted to abandon his hereditary craft for some other means of livelihood, such as agriculture or work in factories of various kinds.

Woodworkers.—Wood cutting and working and basket making support 2.5 and 1.3 million persons, respectively, or 3.8 million in all. The number of factories devoted to these industries is still inconsiderable. Saw mills and timber yards each employ some 12,000 persons and carpentry works about 5,000. There is only one cane factory with 46 employes.

Metal workers.—The workers in metals are only about half as numerous as those in wood and cane. About three-quarters of the persons in this order are general workers in Iron, and one-seventh are workers in brass, copper and bell-metal.

The total number of persons dependent on metal industries shows a decline of 6.6 per cent. as compared with 1901.

Earthenware.—The manufacture of glass. bricks, and earthenware supports in all 2.2 mill on persons. Seven-eights of these are the ordinary village potters who make the various earthenware utensils for cooking and storing water which are required by the poorer classes, as well as tiles, rings for wells and the like. In most parts of India the potter, like the carpenter, oil-presses, blacksmith and cobbler, is found in practically every village.

Chemicals.—In a country like India, whose economic development is still backward, it is not to be expected that a large number of persons should be engaged in industries connected with chemical products. The total number returned as supported by these industries exceeds a million but it shrinks to less than 100,000 if we exclude manufacture and refining of vegetable and mineral oils. The 1'1 million persons included in this group are almost entirely village artisans who extract oil from mustard, linseed, etc., grown by their fellow villagers.

Food Industries.—Of the 3·7 million persons supported by food industries the great majority follow occupations of a very primitive type. Rice pounders and huskers and flour grinders number 1·6 million, grain parchers, etc. 0·6 million, and toddy drawers about the same. There are 352,000 butchers, 281,000 sweetmeat makers, etc., and 97,000 bakers and biscuit makers. The other five heads of the scheme contain between them only 227,000 persons. The principal factories in connection with food industries are flour and rice mills, which employ 42,000 persons, sugar factories 8,000, opium, ganja and tobacco factories 7,000 and breweries 5,000.

Dress.—In all 7.8 million persons are supported by industries of dress and the toilet. Of these 1.8 millions are grouped under the head tailors, millions, dressmakers, etc. and 2.1 million under each of the heads (a) shoe, boot and sandal makers, (b) washermen, cleaners and dyers, and (c) barbers, hair-dressers and wig-makers.

Transport.—Transport supports about five million persons, or 16 per mille of the population, viz., transport by water one million, transport by race at 2.8 million, transport by ration en million, and the post, telegraph and telephone services 0.2 million. Transport by water, about three-fifths are owners of country boats and their boatmen; nearly one-sixth are employed on inland steamers and ocean-going vessels of all kinds, one-sixth are engaged in the construction and maintenance of canals, and one-twentieth in the management and upkeep of harbours. Transport by road includes one million carters and cart-owners, more than half a million porters and east-owners and considerably less than that number of owners and drivers of pack animals. Palld where sand beaters number 202,000 and persons engaged on road construction and maintenance 653,000.

Trade.—The number of persons dependent on trade for their livelihood is 17.8 millions, or 8 per cent. of the population. Of these, more than half are supported by trade in food stuffs, including 2.9 million grocers and sellers of vegetable oil, salt and other condiments, who are for the most part the petty village shop-keepers, commonly known as salt and oil sellers; 2.2 million grain and pulse dealers; 1.6 million betch leaf, vegetables and fruit sellers, and nearly a million fish vendors. Trade in textiles is the

next most important item, supporting 4 per mille of the population. In connection with these figures, it is necessary to draw attention to the great difference which exists between the economic conditions of India and those of Europe. In Europe the seller is almost invariably a middleman, whereas in India he is usually the maker of the article, and is thus classified under the industrial and not the commercial head.

Professions.—The public administration and the liberal arts support 10.9 million persons or 35 per mille; namely, public force 2 4 million, public administration 2.7 million, the professions and liberal arts 5.3 million, and persons of independent means about half a million. The head Public force includes the Army (0.7 million), the Navy (less than 5,000) and the Police (1.6 million). India has practically no navy and her army is exceptionally small, as compared with those of European countries. The number of persons actually employed in it is only 384,000 or 1 per mille of the population, as compared with 4 per mille in England and 10 in Germany. The figures for Police include village watchmen and their families. The real number in this group is greater than that shown in the census tables: many of these village officials have other means of susbsistence, and the latter were sometimes shown as their principal occupation. Under the head Public administration are classed only those persons who are directly engaged in the Executive and Judicial administration and their establishments, whether employed directly under Government or under a municipality or other local body. Employees of Government and local bodies who have a specific occupation of their own, such as doctors, printers, school-masters, land surveyors, etc., are shown under the special heads provided for these occupations. Of the 5-3 million persons supported by the professions and liberal arts, Religion accounts for rather more than half, Letters and the arts and sciences for more than a sixth, Instruction and Medicine for one-eighth, and Law for one-eighteenth. The main head Religion contains 1.6 million priests, ministers, etc., 0.7 million religious mendicants, 0.4 million pilgrim conductors, circumcisers and persons engaged in temples, burial or burning ground service, and 0.06 million catechists and other persons in church and mission service. Of Law, more than half are lawyers, law agents and mukhtiars and the remainder lawyers' clerks and petition writers. More than two-thirds of the persons under the Medical head are medical practitioners of various kinds, including dentists: the remainder are midwives, vaccinators, com-pounders, nurses, etc. The real number of per-sons who act as midwives must exceed considerably that shown in the return. This service is usually performed by the wife of the village scavenger or other person of low caste; and she must often have been returned under her husband's occupation. Nearly three-fourths of the persons classed under Letters and the arts and sciences are found in Music composers and masters, players on musical instruments, singers, actors and dancers. The bulk of these are village drummers, whose services are invariably requisitioned on the occasion of marriages and religious festivals.

Factories.—There are in the whole of India 7,113 factories employing 2.1 million persons, or 7 per mille of the population. Of these per-

sons, 810,000, or two-fifths of the total number are employed in the growing of special products, 558,000 in textile industries, 224,000 in mines, 125,000 in transport, 74,000 in food industries, 125,000 in transport, 74,000 in 1000 industries, 171,000 in metal industries, 40,000 in glass and earthenware industries, the same number in industries connected with chemical products and 45,000 in industries of luxury. Of the special products, tea (703,000 employees) is by far the most important. The number of tea gardens is not much more than double that of coffee plantations, but twelve times as many persons are employed on them. The coffee plantations are four times as numerous as indigo concerns and employ twice as many labourers. Of the labourers on tea gardens, 70 per cent. are returned by Assam and 27 per cent by Bengal. Madras, Mysore and Coorg contain between them practically all the coffee plantations, and Bihar and Orissa all the indigo factories. Of the persons working in mines, 143,000, or 64 per cent. are found in collieries, eight-ninths of them being in the two provinces of Bihar and Orissa and Bengal. The number of persons engaged in gold mines is about one-fifth of the number in the coal mines: nine-tenths of them were returned from Mysore. Of the 558,000 workers, in textile industries, cotton mills contribute 308,000 and jute, hemp, etc. 222,000. About two-thirds of the persons employed in cotton mills are found in the Bombay Presidency, from 8 to 9 per cent. in the Central Provinces and Berar and Madras, and about half this proportion in the united Provinces and Bengal. Jute mills are a monopoly of Bengal. Of the industries connected with transport, railway workshops are by far the most important, and afford employment to

99,000 persons, or 70 per cent. of the total number of persons engaged in these industries: about one-fourth of them are found in Bengal and one-sixth in Bombay. Of the factories connected with food industries, the most prominent are rice and flour mills. These employ 42,000 persons, of whom nearly three-fourths are engaged in the rice mills of Raugoon and other places in Burma.

Indians and Europeans.—The proportion of Indians to Europeans varies considerably in different classes of factories. The great majority of the larger concerns are financed by European capital, and in such cases management or direction is generally European, and the Indians shown under this head are engaged for the most part on supervision and clerical work. In Assam where 649 tea gardens are owned by Europeans and 60 by Indians, there are 536 European and 73 Indian managers. In the coffee plantations of Madras and Mysoro the same principle is apparent. The jute nillis of Bengai are financed by Europeans; while in Bombay where Indians own 110 of the cotton spinning and weaving mills and share 25 with Europeans, and the latter own exclusively only 12, all but 43 of the managers are Indians. Sometimes the proportion of Europeans employed in supervision, etc., varies with the character of the work. In the gold mines where the planning and control of the deep underground workings require a high degree of skill, Europeans outnumber Indians in the ratio of nearly 4 to 1, whereas in the collieries Indians are twelve times as numerous as Europeans.

Indian Education.

Indian Education* is unintelligible except | Western thought; and (2) the obvious utility through its history. Seen thus it affords the of a system whose object should be, in part at spectacle of a growth which, while to one it least, to assist Indians to a development of will appear as a huge blunder based on an initial their capacities and sympathies on lines which error of judgment easily avoided, to another stands out as a symbol of sincerity and honest endeavour on the part of a far-sighted race of rulers whose aim has been to guide a people alien in sentiments and prejudices into the channels of thought and attitudes best calculated to fit them for the needs of modern life and western ideals. A careful survey of the history of Indian Education will reveal the opposition between two tendencies whose struggle for supremacy was finally decided by Lord Macaulay's Minute of 1835. The be-ginnings of public education in India belong ginnings of public education in India belong to a generation before Macaulay's regime. But it was not till Macaulay poured such emphatic contempt on Oriental learning that the Government in India in general definitely chose the path of English education as the road to future progress. Macaulay's Minute crystallises a point of view which had already some years before begun to impress itself upon educationists in this country. And when we find a statesman of the acumen of Lord Curzon saying "Ever since the cold breath of Macaulay's rhetoric passed over the field of the Indian lays income passed over the man of the interest and indian text books, the elementary education of the people in their own tongue has shrivelled and pined," we must not suppose that he regarded Macaulay as solely responsible for the trend which modern education has taken. It needs but a cursory glance at the history of education in India under British rule to make clear once for all that education on Western lines was necessary as an answer to a growing demand which none but callous rulers could refuse, as also for the very forcible rulers could reruse, as also for the very forcible reason that without some kind of organised training of Indians in English composition and ideas the practical work of administration which demands an ever-increasing number of clerical assistants to meet the needs of steadily

might be of service in the actual government of the country. With reference to this last point the following consideration may be urged. point the following consideration may be urged. The object of our great Universities and Public Schools in England is generally admitted to be something more than the satisfaction of purely theoretical interests. They are meant to be the training ground of capable public servants. Let us once admit this to be a necessity in England; if then we recognise the impossibility of administering the great Indian Engire through Englishmen along there Empire through Englishmen alone, there seems to be no adequate reason for refusing to apply the same methods to India. And as there is nothing in Indian History to show the particular value of any Oriental system of education as a training for public service, the logical conclusion is that Indians should be educated in English along Western lines. If an observer were confronted with a country ruled observer were contronted with a country rules by foreign administrators backed up by a foreign army, he would infer on a priori grounds that the said foreign power had included in its legislation a system of education analogous to its own—if his opinion of it had not led him to suppose that it had adopted the scentical to suppose that it had adopted the sceptical or ungenerous policy of not educating its subjects at all. That would present itself as the only possible alternative. And the problem of Indian education may be said to resolve itself into a doubt which of the two policies preferable, that of non-education or that of English education. Yet the doubt itself has only to be stated to be solved. And the task of explaining Indian education becomes in the end simply one of showing how the initial encouragement on the part of British rulers of Oriental learning did not so much begin educaideas the practical work of administration which demands an ever-increasing number of clerical sasistants to meet the needs of steadily accumulating office work, could never have been carried on. These two points give one the clue to the main features of Indian education will be to show (1) Indian education in the clue to the main features of Indian education will be to show (1) Indian education in the allowed to substitute for their own lifetiess learning the progressive culture of modern

THE BIRTH OF INDIAN EDUCATION.

The seeds of an interest in education may be pernor-General's Council in 1835 that it was The seeds of an interest in education may be said to have been sown by the foundation of the Calcutta Madrasa by Warren Hastings in 1781 and the Sanskrit College at Benares by Jonathan Duncan in 1791. Whatever interest there was in learning during this period was directed solely to the encouragement of Sanskrit and Arabic. Even the Act of 1813 which set spart a lakh of rupees for "the revival and promotion of ilterature and the encouragement of learned matives of India, and for the introduction and promotion of a knowledge

definitely discussed whether it might not accord with the meaning of the Act of 1813 to cord with the meaning of the Act of 1813 to use at least part of the money for the encouragement of the study of English. But other forces had been already at work. In 1817 the Hindu College was opened at Calcutta with the express object of instructing "the sons of Hindus in the European and Asiatic languages and sciences," English being assigned the most prominent position. The moving spirit which led to the foundation of this institution was Rais Ram Mohan Row who in the work. ragement of learned natives of india, and for the introduction and promotion of a knowledge of the sciences in the British territories of which led to the foundation of this institution of the sciences in the British territories of which led to the foundation of this institution India. Was Interpreted as a scheme for the of Mir. H. R. James in his important book encouragement of Sanskrit and Arable; and "Education and Statesmanship in India," it was not till the famous meeting of the Gov-

This term is in common use for "Education in India," just as "English Education" means in India, education through the medium of English in Western learning.

	1907-08.	1908-09.	1909-10.	1910-11.	1911-12.	1912-13.
Area in square miles	1,151,022	1,144,105	1,145,728	1,152,894	1,135,513	1 105 404
Population Male	128,249,577	123,249,836	122,699,630	130,113,723	130,408,551	1,137,686
Female	119,570,056	119,570,469	119,017,958	124,706,893	124,960,002	130,302,188
Total Population	242,819,633	242,820,305	241,717,588	254,820,616		124,851,633
Public Institutions for Males.				204,020,010	255,868,553	255,153,821
Number of arts colleges	126	123	128	100		
Number of high schools*	1.169	1,174	1,190	128	130	128
Number of primary schools	104,354	106,329	107,463	1,203 108,144	1,219	1,278
Male Scholars in Public Institutions				100,144	110,692	113,955
In arts colleges	19,384	18,788	22,912	04.000		
In high schools •	301,565	815,905	344.647	24,806 364,704	29,369	32,931
In primary schools	3,626,014	3,786,462	3,888,671	8,936,419	390,881	428,182
Percentage of male scholars in public institu-	23.1	25.15	26.2	25.31	4,202,631	4,428,531
tions to male population of school-going age.				20.91	26.8	28.4
Public Institutions for Females. Number of arts colleges				 -		
Number of high schools*	8]	. 7	8	8		
	114	124	125	180	10	10
Female Catalana to Date	10,845	11,511	11,753	12,027	135 12,886	144
Female Scholars in Public Institutions. In arts colleges					12,000	13,694
In high schools	175	185	217	244		
In primary schools	12,924	13,654	14.257	14,864	279	318
Percentage of female scholars in public Institut	570,540	631,906	668,636	689,471	16,884	18,515
tions to female population of school-going age.	3.6	4.0	4.2	14.2	785,511 4.7	832,962
TOTAL SCHOLARS in public institutions (Male				** 4	4.7	5.0
TOTAL SCHOLARS in public institutions { Male	4,428,175	4,650,134	4,826,554	4,930,084	5,253,065	5 550 041
Total	647,786	720,342	763,580	793,646	875,660	5,559,841 928,983
	5,075,961	5,370,476	5,590,134	5,723,730	6,128,725	
TOTAL SCHOLARS (both male and female) in all institutions.	5,699,146	5,972,204	6,203,305	6,345,582		6,488,824
Ernendibung Co. 43			-,=00,000	0,040,082	6,780,721	7,149,663
Expenditure (in thousands of rupees). From provincial revenues						
	1,98,54	2,12,42	2,34,30	2,42,08	0.00.00	
From municipal hands	1,01,86	1,17,24	1,02,24	1,00,32	2,69,59	3,39,25
	22,22	24,27	24,56	28.00	1,05,80	1,23,08
From fees	3,22,62	3,53,93	3,61,10	3,70,40	29,84	33,28
From other sources	1,57,30	1,69,37	1,85,42	2,00,67	4,05,23	4,95,61
GRAND TOTAL OF EXPENDENCE	1,21,67	1,35,18	1.40,24	1,47,61	2,19,09	2,40,52
OF MAPENDITURE	6,01,59	6,58,48	0,86,76	7,18,68	7,85,93	1,65,96

High schools include vernacular high schools also, in some provinces.
 The percentages for 1910-11, being reckoned on the new Census figures are slightly misleading for purposes of comparison with previous This remark applies throughout all the Tables.

Indians to desire and work for English Edu-cation." From that time forward the far-sighted observer must have realised that a imbued with their own original and peculiar movement had begun which whether we would character." Elphinstone's interest in educamovement had begun which whether we would or not we could no longer check. The same or not we could no longer cheek. The same phenomenon was witnessed on the Western side of India: and Mountstuart Elphinstone's Minute on Education, dated March 1824, de-serves particular notice for its recognition of the necessity of introducing a knowledge of European sciences into any scheme of education as well as for its wise restraint in dealing with Oriental learning. For though his declared object was to establish English schools and encourage the natives in the pursuit of European sciences, he repudiates the idea that the

character." Elphinstone's interest in educational matters was sufficiently appreciated by the citizens of Bombay who in 1827, the year of his departure, resolved to found two professorships in his memory "to be held by gentlemen from Great Britain until the happy period when natives shall be fully competent to hold them." It is sufficiently clear not only that an interest had been aroused in Furlish advanting but that support had English education but that some attempts had Oriental tearning. For though his declared object was to establish English schools and encourage the natives in the pursuit of European sciences, he repudiates the idea that the purely Hindu side of education should be totally abandoned. In his own words: "It would surely be a perposterous way of adding to the intellectual treasures of a nation to begin by the destruction of its indigenous literature; and I cannot but think that the future attainments of the natives will be increased in extent

GROWTH AND ORGANISATION OF ENGLISH EDUCATION IN INDIA.

It is, of course, just the possibility of lish language is a strong argument in his favour engratting modern western knowledge on the This utilitarian motive for English education old Indian stocks that is open to doubt. Here-in lies the significance of Macaulay's famous tirade on Oriental science, which deserves quoting for the contrast it forms to the juster estimate of Mountstuart Elphinstone. It is perhaps more offensive to Indian cars for the element of truth it contains, though the en-tirely unsympathetic form in which he expresses himself is a sufficient stumbling-block presses himself is a sumcient soumoing-noce, in itself. "The question before us," he writes, "is simply whether, when it is in our power to teach this language—English—we shall teach languages in which, by universal confession, there are no books on any subject to lession, there are no booss on any sucreto-be compared to our own; whether, when we can teach European science, we shall teach systems which, by universal confession, wher-ever they differ from those of Europe, differ for the worse; and whether, when we patronise sound philosophy and true history, we shall countenance at the public expense, medical doctrines which would disgrace an English farrier, astronomy which would move laughter in the girls at an English boarding-school, history abounding with kings thirty feet high and reigns thirty thousand years long, and geography made up of seas of treacle and seas of butter." The reiterated phrase 'by universal confession' is beyond the mark; but Macaulay was surely right in his valuation of ancient Hindu science as science or history as history. Where he was surely wrong was for the worse; and whether, when we patronise as history. Where he was surely wrong was in his implied condemnation of Indian litera-

This utilitarian motive for English education lurks often unconscious and unrecognise under the whole progress of Indian education—to its detriment as some think, for the great charge against the modern Indian student is that he regards a career in Government school and colleges not so much as education and an end in itself as a mere means to more or less lucrative employment in Government offices. Be that as it may, we shall probably not be far wrong in saying that the famous Minute far wrong in saying that the famous Minute of 1835 was in spirit right but in expression wrong. Its result was that the Government of Lord William Bentinek made the following momentous Resolution: "His Lordship in Council is of opinion that the great object of the British Government ought to be the promotion of European literature and science among the natives of India, and that all the funds appropriated for the purposes of education would be best employed on English education alone." cation alone."

Universities Established.

Macaulay's period of service on the Committee of Public Instruction (first formed in 1824) gave considerable impetus to the movement he advocated, as figures will show. Whereas the Committee had no more than fourteen institutions under its control in Bengal fourteen institutions under its control in hongs, when he joined it, this number was more than trebled by the end of 1837, the larger part heing Anglo-Vernacular schools or colleges. Progress continued along these lines in Bengal, and more slowly in other Presidencies, until in 1852 the numbers under instruction in 1852 the numbers un in his implied condemnation of Indian literature as literature. From that point of view and more slowly in other Presidencies, until you might just as well condemn Homer for his mythology (as indeed Plato does in the Republic). Where, again, he was possibly wrong was in his vehement antipathy to the view that, if modern science is to be taught, it should be taught through the medium of Indian languages. Yet here too he represents an attitude which was fast becoming that of enlighted Indians. And, if there were no other reasons, the ultimate utility to the Government itself of Indians trained in the Eng-

Statement of Educational Progress in MADRAS.

	1907-08.	1908-09.	1909–10.	1910–11.	1911–12.	1912–13,
Area in square miles Population	No change,	No change.	No change.	141,866 20,152,916 20,770,668 40,923,584	142,491 20,389,666 21,029,264 41,418,930	No change.
Public Institutions for Males. Number of arts colleges Number of high schools Number of primary schools Male Scholars in Public Institutions.	93 170 21,929	32 169 22,412	30 172 23,108	30 172 23,426	30 168 24,044	29 171 25,223
In arts colleges In high schools In primary schools Percentage of male scholars in public institu- tions to male population of school-going age.	4,283 64,185 659,716 27·4	4,227 66,189 689,817 27*8	3,911 72,673 739,933 30·8	3,709 69,543 766,884 29 • 7	4,893 71,394 829,331 30 8	5,491 77,581 889,393 33·1
Public Institutions for Females. Number of arts colleges Number of high schools* Number of primary schools Female Scholars in Public Institutions.	2 28 893	1 32 862	1 31 886	1 32 900	2 33 1,162	2 32 1,281
In arts colleges In hith schools In primary schools Percentage of female scholars in public institutions to female population of school-going age.	37 3,808 127,107 5·4	38 4,981 135,784 5*8	37 4,212 147,910 6·2	32 4,027 156,027 6·1	46 4,510 199,719 6·6	56 4,689 223,835 7*4
TOTAL SCHOLARS in public institutions { Male Female Total	775,450 156,948 932,398	813,056 168,167	870,505 181,461	896,701 190,861	943,369 209,517	1,011,753 234,197
TOTAL SCHOLARS (both male and female) in all institutions,	1,057,170	1,099,615	1,051,966	1,087,562	1,152,886 1,280,065	1,245,950 1,362,182
Expenditure (in thousands of rupees). From provincial revenues From local funds From municipal funds Total Expenditure from public funds From fees	28,40 16,69 2,95 48,04	27,79 20,91 3,84	39,07 11,45 3,17	43,16 11,24 3,21	44,22 12,28 3,15	58,20 17,27 4,15
From fees From other sources GRAND TOTAL OF EXPENDITURE	31,98 26,89 1,06,91	52,54 32,50 32,37 1,71,41	53,69 34,89 30,81 1,19,39	57,61 37,29 32,78 1,27,68	59,65 37,90 38,10 1,35,65	79,62 41,44 36.56 1,57,62

Include also vernacular high schools for girls.

concession to the utilitarian view and a fatal misdirection of public attitude towards edu-

Meanwhile educational institutions had so multiplied throughout India that the time was becoming ripe for the decisions arrived at in Sir Charles Wood's Despatch of 1854. at in Sir Charles Wood's Despatch of 1894.
The old idea had been that the education imparted to the higher classes of society would gradually 'filter down' to the lower classes. How little true it is that education could ever lilter down to the masses in India by its own recognition. percolative properties is evident enough even now when our wide system of schools entirely now when our wide system of schools entartly fails to touch the majority of India's population. The Despatch of 1854 marks a departure from the 'filtration' policy and a recognition on the part of an enlightened Government of educational duties, even towards criment of educational duties, even towards sections of the population who had never entertained the idea of Government obligations in their direction. The result of the Despatch was the formation of Departments of Public Instruction on lines which do not differ at all essentially from Departments of Public Instruction of the present day. They represent a direct desertion of the laisses fairs or filtration policy and an attemnt on the part of tion policy, and an attempt on the part of Government to "combat the ignorance of the people which may be considered the greatest people which may be considered the greatest curse of the country." Another feature of the Despatch was an outline of a 'University' system, which formed the basis of the scheme adopted in 1857 when Acts were passed for the incorporation of three Universities, one for Calcutta, one for Bombay and one for Madras. As Lord Curzon said: "The Indian Universities may be described as the first fruits of the broad and liberal policy of the Education Despatch of 1854." He might have gone further and said that the scheme outlined in it not only originated universities but contained suggestions for their proper conduct whose value has only recently been understood. In its proposal of a distinction between "common degrees" and "honours" degrees it anticipates the actual procedure of at least one University, that of Bombay, by nearly sixty years. sixty years.

Private Agencies.

The Despatch of 1854 and the orders based on it, together with later resolutions and based on it, together with later resolutions and modifications, organised education into something like the present system. Government took the whole thing into its own hands and established Universities, colleges, high schools and middle schools. Efforts were made to extend elementary education so as to reach the masses and also to establish a system of inspection with a view to guaranteeing the efficiency of private institutions which should be allowed grants-in-aid as well as Government institutions themselves. Expansion under control sums up the aims of this combined system of grants-in-aid and inspection. As Mr. James puts it: "Local management

life would see in this Resolution a fatal inspiration of the Commission of 1882 appoint inspiration of the Commission of 1982 appoint ed to inquire into the way in which the recom-mendations of the Despatch of 1854 had been carried out. The result of the Commission was to relax the control exercised by Govern-ment over education. Government's withment over education. Governments withdrawal was intended to refer only to secondary instruction. The idea was to encourage private enterprise in the founding of secondary schools. But though the recommendations of the Commission included much talk of control of the commission included much talk of control of the commission included much talk of control of the commission included much talk of control of the commission included much talk of control of the commission included much talk of control of the control of ditions and cautions and of the necessity of ditions and cautions and or the necessity of maintaining a high standard, the addition of a further recommendation that the managers of aided schools and colleges be permitted, if they wished, to charge less fees than Government schools of the same class led in the result to a general deterioration of standard. The recommendations of this Commission appear to some as a charter of inefficiency. They are the avenue to educational institutions run are the avenue to educational institutions run as a business proposition. Meanwhile perhaps the most creditable feature of the Commis-sion's Report was its insistence on the impor-tance of Primary Education and its recommen-dation "that primary education be declared to be that part of the whole system of Public Instruction which prossesses an almost, exclu-Instruction which possesses an almost exclusive claim on local funds set apart for education and a large claim on provincial revenues. The least creditable feature is its recommendation "that preference be given to that system which regulates the aid given mainly according to the results of examination." To pay by results is wilfully to encourage the cramming institution.

Great Expansion.

The period from 1882 to beginning of the new century is one of phenomenal expansion. There was a general stampede for education, and no proper regard was paid to the standard or quality of the product. It is this period which if any deserves the opprobrium incurred by education in India. And it is the universities which stand out as the chief sinners. There can be no reasonable doubt that students were being turned out with degrees attached were being turned out with degrees attached to their names who could not be regarded as educated from any respectable standpoint. As a man who is doubtful whether an act of his really is so praiseworthy as the general chorus of congratulation had led him to suppose an added by with terrors of the him to suppose an added by with terrors of the theory of the suppose and the suppose pose, suddenly, with tremors at the thought of the revulsion of opinion that is sure to follow the revulsion or opinion that is sure to follow if he turns out to have done wrong, feels certain of his error, so our Governors and Chancellors and Vice-Chancellors of this period gradually arrived at the conviction that something was wrong with the seemingly excellent product of the Despatch of 1884 and the Commission of the Despatch of 1854 and the Commission 1882. Criticism began from without, but finally it invaded the sphere of Convocation addresses. At last in 1901 the Vice-Chancellor of the University of Calcutta made this statement: "For the first time, the Chancellor asks the University to consider the possibility of constitutional reform." In September of that year an educational conference was comunder Government inspection stimulated by grants-in-aid, was to supplement and finally, perhaps, in large measure, to supersede direct management by Government." (p. 48) The latter part of the sentence may have been the

	tomont of Dan	Cutional Flos.	Cas III DOMD			
	1907-08.	1908-09.	1909–10.	1910-11.	1911–12.	1912-13,
trea in square miles opulation Total Population	No change.	No change.	No change.	188,826 14,006,375 13,071,673 27,078,048	188,826 14,013,522 13,074,273 27,087,795	No change.
Public Institutions for Males. Number of arts colleges Number of high schools Number of primary schools	11 115 9,602	11 112 9,900	11 114 10,686	11 117 11,267	11 129 11,609	11 138 12,169
Male Scholars in Public Institutions. In arts colleges In high schools In primary schools Percentage of male scholars in public institutions to male population of school-going age.	2,567 83,079 516,382 29·4	2,613 36,921 539,513 80·9	2,958 37,707 580,927 33·2	3,177 39,569 593,197 31·8	3,643 41,325 630,427 33·6	3,850 45,385 678,031 36·2
Public Institutions for Females. Number of arts colleges Number of high schools Number of primary schools Female Scholars in Public Institutions	28 1,026	25 1,050	26 1,104	24 1,121		30 1,199
In arts colleges In high schools In primary schools Percentage of temale scholars in public institutions to female population of school-going age.	58 2,555 92,158 5.8	60 2,859 101,328 5.8	76 2,929 109,606 6·3	2,987 112,105 6·1	76 8,662 126,703 6·9	91 4,095 136,378 7•4
TOTAL SCHOLARS in public institutions { Male Female	578,348 98,799	607,537	658,704	667,469	707,328	761,435
Total	677,147	108,176 715,713	116,731	119,596	184,981	145,392
TOTAL SOROLARS (both male and female) in all institutions.	749,391		770,435 850,293	787,065 868,535	842,309 922,877	906,827 987,685
Expenditure (in thousands of rupees). From provincial revenues From local funds From municipal funds Total Expenditure from public funds From fees	8,72 7,08 60,70	10,77 7,34	49,04 10,34 7,50 56,88	46,60 10,84 9,54	58,98 10,76 10,14	68,82 11,62 9,85
From other sources	21,81	29,40	23,96		74,88 26,27	90,29 26,86
GRAND TOTAL OF EXPENDITURE					35,02 1,86,17	36,83 1,53,48

Education in Bombay.

UNIVERSITIES ACT AND PRESENT SITUATION.

irom the control of Government within certain limits and of allowing colleges and secondary schools conducted by private enterprise to reduce their fees, though in many details it made admirable proposals, yet by its general policy led to a general inefficiency and lowering the tradegraph in higher adjusting M. 2000. of standard in higher education. In some matters it anticipated all that has hitherto been done. For example, in suggesting that there should be two sides in secondary schools, "one leading to the entrance examination of the Universities, the other of a more practical character, intended to fit youths for commercial and other non-literary pursuits," it still anti-cipates Government action by many years. The Universities Commission of 1902 proposed to make the School Final examination a preliminary test for certain professions and posts in Government service and to substitute it for the Matriculation as a general qualification, for the matriculation as a general qualification, even, if possible, as a test of fitness to enter the University. The latest statement of Government policy (dated Feb. 1913) re-asserts and emphasises these proposals, which are an attempt to enforce the suggestion of the Commission of 1882. But the general relaxation of Government control seemed to Lord Curzon the radical evil of his day.

New Senates

Not to speak of the lowering of efficiency consequent on the lowering of fees in schools and colleges by private enterprise, we may mention among the more glaring defects which mention among the more glaring defects which Lord Curzon had to face the maladministration of the Universities due to the mistake of their composition. All kinds of people had crept into the Senates of Universities who from the true educational point of view had not have there there. The numbers had become no business there. The numbers had become unwieldy so that it was impossible to get passed even necessary reforms. The progress of education was retarded and modern innovauniversities have revised their regulations and though they have not ceased to be examining universities they have taken upon themselves the necessary function of inspecting themselves the necessary function of inspecting the colleges affiliated to them. They have also received powers of becoming teaching bodies. Little has yet been done to make them that; but it may be judged from utterances in their Senates that they are becoming increasingly conscious of their possibilities or duties in this direction. In the last Resolution on Education (Feb. 1913) it was decided that the principle of an examining and affiliating University must still be maintained. Nevertheless a movement is promised in the direction of "new local teaching and residential Universities within each of the provinces in harmony with the best modern provinces in harmony with the best modern opinion as to the right road to educational efficiency." Under the present system it is no longer impossible to pass radical changes. The Senate of each University has been reduced to one hundred in number; and the Act lays down that in the election of members of the Syndicate, the executive body in the University, a certain number of those actively engaged in educational work should be selected.

The Commission of 1882, which favoured the policy of withdrawing higher education the control of Government within certain tation on the Syndicate, to this extent that tation on the Syndicate, to this extent that among the elected members of the Syndicate a number not falling short by more than one of a majority must be heads or professors of colleges. One University has required by its regulations that a majority of the elected members of the Syndicate shall be heads or professors of Colleges." It is evident then that the working bodies in the Universities have been cleaned up and are now so constituted as to contain the obviously essential educational element.

Policy of 1913.

The influence of Lord Curzon on educational progress has been generally salutary. For though his reforms had the air of restriction unough his reforms had the air of restriction and raised a general outcry in India—"the least that Lord Curzon was charged with was a deliberate attempt to throttle higher education in India." ("Indian Unrest" by Valentine Chirol)—it is now recognised by enlightened thinkers that all branches of education required careful review. Before any quantitative increase took place, it was necessary to reform the qualitative basis. A glance at the work done as summarised by the last to retorm the qualitative basis. A games at the work done as summarised by the last Quinquennial Review will show how the ma-chinery has been cleaned. The Universities are now respectable; secondary schools have been improved and placed under stricter con-ditions of recognitions extention though inbeen improved and placed under streets con-ditions of recognition; attention, though in-sufficient, has been paid to the training of teachers; in primary schools examinations have been simplified, buildings improved, the pay of teachers raised, the courses of studies revised and widened. In these circumstances revised and widened. In these circumstances the Government Resolution of 1913 was justified in its aims to extend educational institutions on every side. It proposed to double the number of primary schools (a scheme which may be regarded as a compromise between the policy of laissez faire and that of compulsory education), and to encourage the establishment of a greater number of secondary schools on the lines of private enterprise dary schools on the lines of private enterprise by increased grants on conditions of submisby increased grants on conditions of submis-sion to Government inspection, recognition, and control. One of the most interesting features of the Resolution is Government's desire to develop the hostel system. In the words of the Resolution: "The Government of India desire to see the hostel system develop mentil there is advants residential accompauntil there is adequate residential accommodation attached to every college and secondary school in India." Altogether the Resolution school in India." Altogether the Resolution of February 1918 ranks as a notable pronouncement, ranging as it does over every conceivable topic, from the Universities to what is often called Female Education, with a depth of insight and a readiness to face the most complex problems of finance and organisation that augurs well for educational progress. There is reason to hope that our educational system is India will stand out as one of the most rein India will stand out as one of the most remarkable achievements in the history of imperial politics.

Statement of Educational Progress in BENGAL.

Statement of Educational Flogiess in Beltoni.											
	190708.	190809.	1999–10	1910–11.	1911-12.	1912–13.					
Area in square miles	124,432 26,674,767 27,097,147	No change. 28,675,026 27,097,560	124,492 26,124,820 26,545,049	124,492 27,436,187 27,587,153	}No change.	78,699 23,365,225 22,117,852					
Total Population	53,771,914	53,772,586	52,669,869	55,023,340	·	45,483,077					
Public Institutions for Males. Number of arts colleges	32 397 33,960	29 397 34,480	29 396 35,201	29 399 35,437	29 398 36,342	31 532 28,107					
Male Scholars in Public Institutions. In arts colleges In high schools In primary schools Percentage of male scholars in public institutions to male population of school-going age.	5,455 80,380 934,121 28·6	4,613 82,822 968,939 30·2	7,107 87,172 992,103 32.0	8,255 94,844 997,953 31·4	9,635 103,096 1,047,769 33·2	12,791 164,244 999,110 40·9					
Public Institutions for Females. Number of arts colleges Number of high schools Number of primary schools Female Scholars in Public Institutions.	2 15 3,384	2 17 3,029	3 17 3,065	3 21 3,052	3 19 3,124	3 21 6,798					
In arts colleges	38 1,631 127,803 3·5	1,974 139,904 3.9	47 2,046 145,233 4·2	63 2,301 146,223 4·2	81 2,423 158,616 4·6	105 3,090 205,784 6*8					
TOTAL SCHOLARS in public institutions { Male	1,146,567 141,974	1,208,718 159,562	1,254,914 167,505	1,290,621 173,207	1,364,946 189,971	1,485,452 227,313					
TOTAL SCHOLARS (both male and female) in all institutions.	1,288,541 1,338,190	1,368,280 1,421,389	1,422,419 1,475,376	1,463,828 1,518,239	1,554,917	1,662,765 1,718,623					
Expenditure (in thousands of rupees). From provincial revenues From local funds From municipal funds	41,38 11,19 1,31	49,79 11,56 1,32	49,93 11,36	50,16 11,64	54,76 11,64	64,97 15,88					
Total Expenditure from public funds	53,88 46,31	62,67 52,71	1,41 62,70 56,19	1.58 63,38 61,02	1,70 68,10 67,88	1,56 82,41 86,62					
GRAND TOTAL OF EXPENDITURE	25,37 1,25,56	29,20	32,00	36,31	36,04	33,68					
TOTAL OF EXPENDITURE	1,23,30	1,44,58	1,50,89	1,60,71	1,72,02	2,02,7					

nor-General is the Chancellor of the University of Calcutta and the head of the provincial Government the Chancellor of each of the other Universities. The Vice-Chancellor is nominated by each head of Government. The executive body is the Syndicate which is now organised so as to contain a larger educational element. Over this body the Vice-Chancellor presides, all other members being elected by the various Faculties except the Director of Public Insraculties except the Director of runne flas-truction who is a member ex officio. The is secretarial work of all university business is done by an officer appointed by the Senate, the majority of whom are nominated by Gov-the Registrar. The *legislative* body is the Senate which is divided into faculties, a Fa-senate which is divided into faculties, a Fa-culty being a section of the Senate appointed dustes of the University.

to control the work of a particular subject. The Faculties are in most cases those of Arts; science, law, medicine and engineering. There is an oriental faculty in the Punjab University alone. Each of the main branches of study in a University is represented in addition by a Board of Studies, that is, an advisory body where the curricular and recommend text books or books which represent the standard of knowledge required in the various examinations. The Senate

UNIVERSITIES.

Constitution .- There are in British India five Universities with the following territorial limits (V. Fifth Quinquennial Review P. 7)-

				Territorial Limits.					
University.				Province (including any Native State under its political control and any foreign possession included within its boundaries).	Native State or Colony.				
Calcutta Madras	••		•••	Bengal, Burma and Assam. Madras and Coorg	Hyderabad. Mysore and				
	••	••	••		Hyderabad, Mysore and Ceylon.				
Bombay	• •		• •	Bombay and Sind	Baroda.				
Allahabad	••	••	••	United Provinces of Agra and Oudh, the Central Provinces (including Berar) and Ajmer- Merwara.	The States included in the Rajputana and Central India Agencies.				
Punjab	••	••	••	Punjab, North-West Frontier Province and British Balu- chistan.	Kashmir and Baluchistan.				

Courses and Examinations.

entrance to a University. After matriculation, if the student decides to graduate in Arts, he must take a four years' course. After two years he takes the Intermediate Examination. After another two years he may appear for the Examination for Bachelor of Arts. The regulations with regard to Honours vary in the different Universities. In Calcutta the honours and pass courses are separate. In Bombay the honours student takes in addition to the pass three extra papers. In Madras the honours course is taken the year after and the honours course is taken the year after and in addition to the pass course. The degree of Master of Arts requires a further examination (except in Madras) which is taken one or two years after the examination for the B. A. degree. If the student elects to take science, his course is one of four years. In some Universities he receives the degree of B. A. in others a scenarte degree of B. Sc. B. A., in others a separate degree of B. Sc. Where the separation between Arts and Science is clearly defined, the student takes the Inter. Examination in Science two years after Matriculation, and two years after this examina-tion appears for that of B.Sc. Those students

The Matriculation Examination is the test for culture, medicine or engineering, must in most transe to a University. After matricula- cases first attend an Arts College for one or two years before proceeding to the professional college. The student who has graduated as Bachelor at a University can graduate as a Bachelor of Law in two years.

The average annual output of graduates is reckoned in the Fifth Quinquennial Review at 1935, and the proportion of students who graduate in the four main faculties is given as follows :-

> Arts 85% 20% Science . . Medicine 9% Engineering 4%

But it should be remembered than in some universities the Arts degree is given for Science subjects.

Dacca University.

One of the most interesting features of the last Government Resolution on education is the themselves and two years after this examina-tion appears for that of B.Sc. Those students who choose a professional course, e.g., agri-themselves willing to sanction under certain

Statement of Educational Progress in BIHAR and ORISSA.

				1911-12.	1912-13.
				1011-12.	1012-10,
Area in square miles				98,170]	
(Male				18,032,708 }	No change.
Population { Female				18,827,328	
•	Total Popul	ATION	[36,860,036	
Public Institut	ions for Male	s.			·········
Number of arts colleges			1	7	7
Number of high schools			::	93	95
Number of primary schools	:	:: ::		21,990	22,452
Male Scholars is	Public Instit	utions.	i	<u>'</u>	
In arts colleges]	1,430	1,722
In high schools		:: ::	::	25,402	28,110
In primary schools	n minhlio inotis	melana ea ma		567,341	592,242
Percentage of male scholars is population of school-going	age.	utions to ma	16	24.8	20.0
Public Institut	ions for Fema	les.	j-		
N I am of anta colleges	*		- 1	1	
Number of arts colleges Number of high schools	••	••	::1	3	3
Number of primary schools	:: ::	:: ::	::	1,250	1,498
Female Scholars	in Public Inst	itutions.	j		
In arts colleges					
In high schools				286 78,076	297 82,254
In primary schools Percentage of female scholars i	n public insti	tutions to fer	male	17,010	04,441
population of school-going	age.	tuoiona co	_	3.2	8.4
TOTAL SCHOLARS in public	institutions	∫ Male	••	669,921	704,485
TOTAL SCHOLARS IN PUBLIC	1110010401040	} Female	••	90,953	95,281
		COTAL		760,874	799,766
FOTAL SCHOLARS (both male	and female) in all inst	itu-	804,658	847,244
Expenditure (in	thousands of a	unees)	i~	i	
	www.cursus Uj T	wpocej.	ł	***	pg 11
From provincial revenues			••	19,55 7,25	$23,11 \\ 8,24$
From local funds From municipal funds	:: ::	:: ::	:: _	52	52
Fotal Expenditure from publi	c funds			27,32	31,87
•			- !	17,35	18,11
From fees From other sources	:: ::	:: ::	::	11,27	11,90
			!		
	TOTAL OF EX	DEMONSTREE D	1	55,94	61,88

versities at Augarh and Benares and eisewhere as occasion may demand. This experiment may be regarded as an initial attempt to get away from the affiliating and examining type of University and to conform to that ideal of a University which requires it not only to confer degrees but to supervise the training of intellect and character as closely as possible. A University of this type will turn out graduates who may be trusted to have in their degree satisfactory credentials about their general character and ability. Under the existing system the University turns out graduates of whom it knows absolutely nothing beyond what it learns in examinations.

Colleges.

Affiliated to the University are colleges, which the Universities have power to inspect and regulate. In 1907 the number of colleges affiliated to the Indian Universities colleges affiliated to the Indian Universities is given as 176, of which 161 are Arts Colleges, three Law Colleges (including the Law School in Bombay), four Medical, three Engineering, one Orlental, one Agricultural, and three Teachers' Colleges. All colleges, whether under Government or private management, are inspected by the Universities. Colleges receive financial aid from public funds, both provincial and Imperial. Under the Universities Act the Universities are removered to make a very the Universities are empowered to make regulations about the residence of college students. The rule now is that students who do not reside with parent or guardian must reside either in a boarding house under supervision or in an approved lodging house. The result has been a larger provision of college residential buildings. The hostel system is definitely encouraged by Government and in the latest Resoinged by Government and in the laws account into (Feb. 1913) Government express the desire to see the hostel system extended to all colleges and secondary schools. The number of students in Arts Colleges in 1907 was

Schools.

Government policy with regard to schools has been to provide a small number of institutions which are to be regarded as models for private enterprise. At the same models for private enterprise. At the same time they insist on a careful inspection of all schools, whether they are run by municipa-lities or local boards, by private individuals or by missionary or other societies. Private enterprise is encouraged by an extensive system of grants-in-aid, which are dependent on the efficiency of the school and its expenditure on teachers and general equipment.

Secondary Schools.

There is some difficulty in the classification of schools, secondary and primary. Here the Fifth Quinquennial Review is followed as issuing from the Director General of Education. Secondary schools are divided into English and Vernacular schools are divided into English is a subject of instruction in the lower part and the medium of instruction in the upper part of the

conditions the establishment of similar uni-versities at Aligarh and Benares and elsewhere within three years of that in high schools, as occasion may demand. This experiment Thus there are four kinds of schools, English, High and Middle, and Vernacular, High and Middle. Of these the first two are often called Anglo-Vernacular as they combine instruction through the medium of the vernacular with instruction through the medium of English. But as there are so small a number of vernacular high schools that they are hardly worth in-cluding in a classification, and further as the vernacular middle schools are simply the highest stage of vernacular education and should therefore be included in the primary school system, the Review regards the distinction between English High and English Middle schools as a satisfactory classification. The distinction between these two is slight. A middle school in the words of the Review, "is middle school in the words of the Review, "in othing more than a high school with two or three top classes cut off." Secondary schools in 1907 numbered 3,285 with 473,130 pupils. They are regulated both by Government and by the Universities. There are now two examinations which a boy may take at the end of his school career.—(1) The Matriculation examination, (2) the School Final. In order to prevent the evils arising from setting a University examination as a test for a school educaversity examination as a test for a school education, Government now insist on the School Final as a test for certain professions and posts in Government Service. The latest Government Resolution lays particular stress on this point.

Primary Schools.

Here again there is a difficulty of classification owing to the different systems prevailing in the different provinces. However they are divided generally according to grade into lower primary and upper primary. Middle vernacular schools, classed usually among secondary schools, are classed usually among secondary schools, are really only superior primary schools and bear little relation to the systems prevailing in secondary schools. Primary schools, as the Review points out, have been defined as the education of the masses through the vernacular. If the medium of instruction be taken as the differentiation, the state of the state differentiation, then clearly middle vernacular schools ought to be classed as primary. In 1907 the number of these schools was 102,947. In the number of these schools was 102,947. In the Government Resolution of Feb. 1913 is found the following statement: "It is the desire and hope of the Government of India to see in the not distant future some 91,000 primary public schools added to the 100,000 which already existed for boys and to double the silland of suntile who now resolve leatured to millions of pupils who now receive instruction in them." Middle vernacular schools in 1907 numbered 2,039 with 184,132 pupils.

Primary to Anglo-Vernacular.

The transition from Primary to Anglo-The transition from Primary to Angio-Vernacular schools, that is, from primary to secondary education, is comparable to the transition from a Board school in Eng-land to a secondary school under the authority of a Municipality or County Council. But there is a difficulty owing to the different sys-tems prevailing in different Presidencies. medium of instruction in the upper part of the school. In the latter English is not taught in any way. In the second place these schools are divided into high and middle schools. In the former instruction in its highest branches leads to the standard of matriculation for a University;

Statement of Educational Progress in the UNITED PROVINCES.

	1907-08.	1908-09.	1909–10.	1910-11.	1911–12,	1912-13.
Area in square miles	}No change.	No change.	No change.	107,164 24,628,344 22,565,048 47,193,392	107,267 24,641,831 22,540,213 47,182,044	No change.
Public Institutions for Males. Number of arts colleges	23 104 9,717	24 108 9,598	31 112 9,267	31 113 9,067	32 115 9,258	32 117 10,158
In arts colleges In high schools In primary schools Percentage of male scholars in public institu- tions to male population of school-going age.	3,424 26,470 447,726 14·6	3,519 28,647 450,309 14·6	4,150 32,085 436,675 14·6	4,180 33,192 432,497 14·4	4,602 34,257 470,953 15·5	4,869 35,804 537,551 17 • 4
Public Institutions for Females. Number of arts colleges Number of high schools Number of primary schools Female Scholars in Public Institutions.	4 22 850	4 22 938	4 23 936	4 20 941	5 20 957	5 21 1,008
In arts colleges In high schools In primary schools Percentage of female scholars in public institu- tions to female population of school-going age.	42 1,833 38,968 1·2	38 1,827 39,316 1·3	45 1,960 36,017 1·2	51 1,824 37,365 1 · 3	54 1,804 41,340 1·4	55 1,984 42,943 1:5
TOTAL SCHOLARS in public institutions. { Male Female. Total	537,633 43,166 580,799	539,414 44,319 583,733	533,175 41,529 574,704	530,341 43,066	573,194 48,394	643,900 50,269
TOTAL SCHOLARS (both male and female) in all institutions.	654,527	658,348	647,581	573,407 645,787	621,588 712,000	694,169 788,298
Expenditure (in thousands of rupees). From provincial revenues	18,44 26,81 2,36	21,76 30,25 2,81	29,45 27,69 3,01	31,33 24,74 3,17	37,50 26,54	48,04 26,57
Total Expenditure from public funds From fees From other sources	47,61 14,04 12,11	54,82 15,03 14,67	60,15 17,32 15,76	59,24- 18,59 15,56	3,54 67,58 20,50 19,85	3,72 78,33 23,32 19,55
GRAND TOTAL OF EXPENDITURE	73,76	84,52	93,23	93,39	107,93	1,21,20

must begin in the vernacular schools before proceeding to the secondary schools; in other provinces children may do so." (The Italics are ours). "The point at which the teaching of English is begun in the secondary schools is usually the highest point in the secondary schools which children from vernacular schools can be drafted; but in the United Provinces and the Punjab there are special arrangements made to facilitate the transition from the vernacular school system to the secondary school system to the secondary school system to the secondary school system to the secondary school system to the secondary school system to the secondary school system to the secondary school system to the secondary school system to the secondary school system to a higher point than this." (p. 97). It may be useful to describe the actual procedure in one Presidency. In Bombay, before proceeding to an Anglovernacular school a boy must have passed standard IV. The curriculum of the first three standards of an Anglo-vernacular school is very similar to that of the last three standards of a vernacular school (Standards V, VI and VII)—except that in the Anglo-Vernacular school English is added as a subject, though not used in those standards as the medium of instruction.

Rural Schools.

In the provinces of Bombay, Bengal, the Punjab and the Central Provinces a distinction is drawn between rural and urban primary schools. The curriculum differs primary schools. The curriculum differs according to this distinction. In the Central Provinces the distinction was, up to the time of the publication of the last Review, one of time mainly, to allow the boys to spend half their time in agricultural work. The object of rural schools is not a work. ject of rural schools is not so much to teach agriculture as to train the minds of prospective agriculturists in an elementary way. In 1905 an attempt was made in Bombay to introduce agricultural text-books, the effect of which may only have been to destroy the faith of the may only have been to destroy the father of the boys in their father's primitive methods without having any appreciable influence on the improvement of agricultural practices. About a year ago a meeting of educational inspectors decided against this experiment. The whole question of remodelling the rural school course has been reconsidered, and in Bombay of least that and the ordinary primery course. at least that and the ordinary primary course have been brought closer together. A boy who starts in a rural school can now complete the whole primary course in the same time as a boy who starts in an urban school. The idea is that boys educated in rural schools should not be put at a disadvantage. At the same time—and this is important—an attempt has been made to make rural education, however elementary, form a system of elementary education which should be complete in itself. education which should be complete in itself.
Hence the differences between rural education and ordinary primary education are unimportant and indefinite, in Bombay at least.
The last Government Resolution declares itto be "not practicable at present in most
to be the difference of the property

must begin in the vernacular schools before proceeding to the secondary schools; in other as proceeding to the secondary schools; in other as provinces children may do so." (The Italies provinces children may do so." (The Italies are ours). "The point at which the teaching possible." Such differentiation in the courses will be provinced in the secondary school of English is begun in the secondary schools of the village map. As competent teachers become available as provinces children the courses will be prescribed by such differentiation has long been found a perplexing problem, and it may be is usually the highest point in the secondary school of which children from vernacular schools definite differences can be introduced.

Professional and Technical Education.

Industrial schools are to be found dotted about India, some maintained by Government, others by municipalities or local boards and others by private bodies. One of the mosy important institutions of this type is the Victoria Jubilee Technical Institute in Bombay. There is also the well-known Thomason College of Engineering at Roorkee, the College of Science at Poona, and the Sibpur College in Bengal. There are Schools of Art in the larger towns of India, where not only architecture and the fine arts are studied but also practical crafts like pottery and iron-work. There is also a school of Forestry at Dehra Dun in the north of India. Besides these there are many medical schools and colleges which prepare students for the medical degrees of the various Universities and of which the Grant Medical College in Bombay may be taken as a good example. There are agricultural colleges, the most important of which is the Pusa Agricultural College and Research Institute, which trains experts in specialised branches of agricultural science, such as agricultural chemistry, economic botany, mycology and entomology. We may also mention the Indian Institute of Science at Bangalore, the product of generous donations by the Tata family. Two institutions mark the progress of educational interest in the Bombay Presidency, the Government Institute of Science—for whose capacious building (not yet completed) the Government is indebted to the generosity of Sir Cowasil Jehangir, Sir Jacob Sassoon, and Sir Currimbhoy Ebrahim—and the College of Commerce, instituted of supply teaching in connection with the establishment of a Faculty of Commerce in the University.

Colleges for Teachers.

There are training colleges for secondary teachers in various parts of India, and what are called in some cases Training Colleges, in others normal schools, for the training of vernacular teachers. As there has been considerable dissatisfaction on account of the defective qualities and pay of teachers in schools, Government are now wakening to the importance of paying more careful attention to these institutions and the last Resolution provides for a better scheme of pay for teachers.

Education of Girls.

tion and ordinary primary education are unimportant and indefinite. In Bombay at least, the last Government Resolution declares it to be "not practicable at present in most parts of India to draw any great distinction between the curricula of rural and of urban primary schools," but in the latter class of schools there is special scope for practical teaching of geography, school excursions, etc., and the nature study should vary with the environment and some other form of simple knowledge of the locality might advantageously

Statement of Educational Progress in the PUNJAB.

	1907-08.	1908-09.	1909-10.	1910–11.	1911–12.	1912-13.
Area in square miles Population { Male	No change.	97,272 No change.	No change.	97,213 10,992,067 8,982,889 19,974,956	No change.	No change,
Public Institutions for males. Number of arts colleges Number of high schools* Number of primary schools	10 93 3,343	10 94 3,408	10 98 3,345	11 98 3,321	11 101 3,417	9 102 3,689
Male Scholars in Public Institutions. In arts colleges	1,725 82,048 146,290 13·3	1,860 34,971 149,542 13°8	2,022 40,895 157,946 14-9	2,270 44,893 164,081 15.6	2,659 47,740 179,410 16·9	2,770 46,999 197,230 18*1
Public Institutions for Females. Number of arts colleges Number of primary schools Female Scholars in Public Institutions.	 11 586	12 600	12 602	 15 599	 16 637	 15 709
In arts colleges In high schools In primary schools Percentage of temale scholars in public institu- tions to female population of school-going age.	929 21,615 1`8	944 22,672 1·9	1,007 26,309 2·2	1,244 26,174 2·4	1,605 20,269 2•7	1,526 32,118 2.9
TOTAL SCHOLARS in public institutions $\left\{ egin{array}{ll} \text{Male} & \dots \\ \text{Female} & \dots \end{array} \right.$	218,592 25,679 244,271	226,502 27,282 253,784	245,722 30,995 276,717	257,432 32,186 289,618	279,492 - 36,675 316,167	298,014 39,838 337,852
TOTAL SCHOLARS(both male and female) in all institutions. Expenditure (in thousands of rupees).	302,863	302,576	329,466	846,940	381,113	410,491
From provincial revenues	20,78 11,48 2,78	17,66 12,43 3.06	18,61 12,39 3,43	18,63 12,31 4,05	22,79 12,44 3,53	29,79 16,17
Total Expenditure from public funds From fees	35,02 11,23 10,11	33,15 11,98 10,46	34,43 13,34 10,66	34,99 15,20 10,38	38,76 17,75 12,14	3,96 49,92 20,67 13,61
GRAND TOTAL OF EXPENDITURE	56,36	55,59	58,43	60,57	68,65	84,20

specially for women, it seems to be generally (service. A small number of personal allow-recognised that there ought to be, particularly ances was arranged in 1896, when the service when one remembers how important it is to was re-organised and received its title. There bring the influential class of women and mothers round to some sympathy with modern thought and ideals. It may be presumed that Governside of education until Indians themselves demand such a move. Most Indians object to invasions on their family life and take a different attitude to women from that of West-

in India and they are inspected by Government inspectors specially appointed for the control of European schools and for the allocation of grants to schools under their sphere of influence. The education of the domiciled communities has been found a singularly perplexing problem, and in 1912 a special conference was summoned to consider the matter. The difficulty is that they are a thing apart from the general system of education devoted to Indians proper.

Educational Services.

These are divided into (a) the Indian Educational Service, (b) the Provincial Educational Service, (c) the Subordinate Educational Service.

(a) Indian Educational Service. The Indian Educational Service is comprised of dis-tinguished graduates of Universities of the United Kingdom, chiefly from Oxford and Cambridge. At the head of the Educational Department in each Presidency is the Director of Public Instruction, who is a member of the Service drawn from one of its branches of the Service drawn from one of its branches and ex officio a member of the Legislative Council of his Presidency. Under him are Educational Officers in three branches, (a) Iuspectors, (b) Principals and Professors of colleges, (c) Headmasters of High Schools. Under the present system it is still possible for an English graduate sent out from home to start in one branch of the service and pass from one to another at the will of Government. At present also a Headmaster of a High School is brought out under less satisfactory condistart at the pay of Rs. 500 per mensem with an annual increment of Rs. 50 per mensem an annual increment of its, 50 per mensem. But Head-masters stop at the pay of Rs, 750 per mensem, while other members of the service go up to Rs. 1,000 per mensem, the Director of Public Instruction being put on to the salary of Rs. 2,500 per mensem. On the other hand, headmasters as a rule are transferred to the Instructoral before they read to the Instructoral before they read to the Instructoral before they read to the Instructoral before they read to the Instructoral before they read to the Instructoral before they read to the Instructoral before they read to the Instructoral before they read to the Instructoral before they read to the Instructoral before they read to the Instructoral before they read to the Instructoral before they read to the Instructoral before they read to the Instructoral before they read to the Instructoral before they are they are the Instructoral before they ar

service. A small number of personal allowances was arranged in 1896, when the service was re-organised and received its title. There are lower allowances of Rs. 200 to Rs. 250, higher allowances of Rs. 250 to Rs. 500, and an allowance of Rs. 100 after fifteen years ment will pay very limited attention to this of approved service to those who do not get any of the other allowances. Except for the Director of Public Instruction, the limit of the prospect of a member of the Indian Educational Service is Rs. 1,500 a month, the average en races. Still there are schools for girls and female inspectresses employed by Government.

European Schools.

There are schools for Europeans and Eurasians in India and thou are inspected by Government. or the most important in the country has not been rightly estimated, though its members are as a rule men of more real culture than members of the Indian Civil. Hence the great difficulty of recruitment. The number of posts in this service in 1907 throughout India was 157. Additions have been made since was 157. Additions have been made since then, but it is clear that the Service is underthen, but it is clear than the setting and importance of its work. Hitherto higher educational work has been little appreciated in India, particularly by Englishmen. Now-a-days much is said of its importance, but little done for those who carry it out.

At the head of all Educational departments in India, at the seat of Government, is the Member for Education who sits in the Viceroy's Executive Council.

(b) Provincial Educational Service.-In this service also are found principals and professors of colleges, headmasters and inspectors of schools, and, in addition, translators to Government and members engaged in other exceptional posts. This service is composed of Indians and recruited in India, the pay scheme being arranged on a much lower scale than that of the Indian Service in accordance with the qualifications and the cheaper rates of living of natives of India. The maximum pay is Rs. 700, the minimum pay Rs. 200. There is a general division between two branches, collegiate and general. The number of posts in 1907 was 265.

(c) Subordinate Educational Service.—The majority of this service are headmasters (a few), assistant deputy inspectors and all the assistant masters in Government high and middle schools. In Bengal a number of poorly paid teachers have been converted into a "lower subordinate service." The pay and The pay and prospects of this service are not good, and much complaint is made of the inferior nature of the teaching in schools run by its members. In 1907 the figures for this service stood at 6025. the other hand, neadmassers as a role are transferred to the Inspectorate before they reach the maximum of Re. 750, and are then put ander the same conditions as the rest of the Rs. 30, but is now Rs. 40 per mensem.

STATISTICAL RESULTS.

The statistical table of educational progress and Bihar and Orissa (43,000). in British India published in March 1914 gives the following results :-

The grand total of pupils in all institutions (including private institutions) has risen by

The Percentage of pupils in public institutions to children of school-going age (reckoned at 15 per cent of the population) has risen, in the case of boys from 20.8 to 28.4, in that of girls from 4.7 to 5.0 in that of both from 10.0 to 17.0. The percentage of both boys and girls (Including private institutions) has risen by 365,948 to 7,149,060. The largest increases occurred in Bengal (109,000), Madras (82,000), the United Provinces (76,000), Bombay (65,000), in public and private institutions together has

Statement of Educational Progress in BURMA.									
	1907-08.	190809.	1909–10.	1910–11.	1911–12	1912–13.			
Area in square miles Population { Male	tion $\begin{cases} \text{Male} & \dots & \dots & 5,342,033 \\ \text{Female} & \dots & \dots & 5,148,501 \end{cases}$		No change.	236,738 6,144,301 5,913,604 12,057,905	230,839 6,183,494 5,931,723 12,115,217	No change.			
Public Institutions for Males. Number of arts colleges Number of high schools Number of primary schools	2 29 5,113	2 31 5,261	2 35 5,163	2 39 4,895	2 36 4,764	2 39 4,733			
Male Scholars in Public Institutions. In arts colleges In primary schools Percentage of male scholars in public institutions to male population of school-going age.	133 9,366 130,677 22 9	148 8,893 136,687 24·1	232 9,599 131,386 24·1	201 10,368 124,377 20·4	302 10,034 125,552 20 9	336 10,888 126,877 21 · 8			
Public Institutions for Females. Number of arts colleges	** 8 532	 9 616	9 619	 11 553	 11 552	13 588			
Female Scholars in Public Institutions. In arts colleges In primary schools Percentage of female scholars in public institutions to female population of school-going age.	5 1,862 52,613 8·6	7 1,683 55,606 9-1	12 1,694 53,779 9·1	17 1,974 53,291 8·1	2,135 55,854 8·5	8 2,440 57,479 9°0			
TOTAL SCHOLARS in public institutions.	183,180 66,220	192,628	192,862	188,129	194,401	202,108			
Female Total	249,400	70,358 262,986	70,106 262,968	71,032 259,161	75,909 270,310	80,325 282,433			
TOTAL SCHOLARS (both male and female) in all institutions.	423,819	433,211	433,973	429,992	445,255	459,593			
From provincial revenues	18,79 3,14 3,31	17,45 3,71 3,35	17,03 4,07 3,40	16,71 4,08 , 3,48	18,98 4,22 3,68	22,31 4,44			
Total Expenditure from public funds From fees	25,24 9,71 4,37	24,51 10,32 4,48	24,50 13,77 4,44	24,27 14,53	26,38 15,09	3,88 30,63 16,53			
GRAND TOTAL OF EXPENDITURE	39,32	39,31	42,71	4,83	5,40 47,37	6,20 53,36			

the whole population from 2.6 to 2.8. Madras, Bombay and Bengal show from 33 to 40 per cent. of boys of school-going age at school in cent. of boys of school-going age at school in public institutions; Assam over 30 per cent. Burma, Bihar and Orissa, and the Central Provinces from 21 to 26 per cent.; in the United Provinces, the Punjab, and the North-West Frontier Province, the percentages range from 15 to 18. The highest figures for girls are 17 4 per cent. in Coorg and 9 0 per cent. in Burma. Burma.

The increase in collegiate and higher institutions has been 69,164 against 28,687 last year. The figures for higher institutions are as follows :-

Male. Female. Total. 40,370 414 40,784 .. 428,182 18,515 446,697 .. 494,085 48,252 542,337 In colleges In high schools In middle schools In primary schools the figure has risen by 273,351 and now stands:— 4,428,531 Male . .

832,962

The total of those under primary instruction in public and private schools (including primary departments of secondary schools, other schools and private institutions where a vernacular is taught (was 6,007,196 at the end of 1911-12, and is now 6,331,355. The number of those under training for the

profession of teaching has risen from 13,354 to 15,531; and 6,027 passed the prescribed tests during the year.

The number of pupils in technical schools has decreased from 12,064 to 11,465.

The number in schools for Europeans and the domiciled community now stands at 33,900 an increase of 180.

The increase in Muhammadan pupils amounts to 64,308. Secondary schools and colleges show an increase of 16,607 and elementary schools of 36,680. The total in institutions of the former kind stands at 191,008, in those of the latter 1,059,448. Other public institu-tions account for the remainder of the increase. The complete total in public institutions is 1,381,306. Nearly half of this number is contributed by Bengal.

Expenditure.

The total expenditure was Rs. 9.02,00,000, an increase of Rs. 1,16,16,000 over that of the preceding year. To this increase public funds have contributed Rs. 90,38,000 against an increase under this head of Rs. 34,83,000 in the increase under this ness of its. 53,05,100 in the year before. Of the total, roughly 495 lakins are now met from public funds (against 405-lakins in the preceding year), viz., 339 lakins (against 270 lakins) from provincial, 123 from district and 33 from municipal funds. Of the control of t 406 lakhs from private sources, fees contributed 240 lakhs.

Among the larger provinces, the highest expenditure is in Bengal, 2021 lakhs; the lowest in Assam, 10 lakhs. Save in Bengal, public funds contributed more than private.

The average annual cost of educating a pupil has risen to Rs. 13.9. This calculation includes

indirect expenditure.

Principal developments.—In the year 1912-13,

the following additional allotments from Imperial funds were announced for education in provinces and politically administered areas-

risen from 17.7 to 18.7, and the percentage to 319 lakhs non-recurring from the surplus revenue of that year, and 55 lakhs recurring from the revenue of the year 1913-14. The developments of the five preceding years have been described in the quinquennial review. Compared with the figures for 1910-11, the increase during the past two years in pupils of public institu-tions has amounted to 13.4 per cent. and that in expenditure to 25.5 per cent.

Among special features of the period are the establishment of a Faculty and the scheme for a college of Commerce in the Bombay University. A generous gift of 10 lakins to the University of Calcutta was made by Dr. Rash Bihari Ghose. A committee worked out a scheme for the Dacca University, a project which has subsequently received the general approval of the Secretary of State. The reports on education in the various provinces show that in Madras the rules for grant-in-aid have been made more elastic and the amount given as grant-in-aid has increased by nearly 5 lakhs. In other provinces improvements have been made in secondary education; and in the Bom-bay Presidency the pay of assistant teachers in Government secondary schools has been increased. The pay of primary school teachers has sed. The pay of primary school reachers has likewise been improved; in the Punjab, graded scales of salaries from Rs. 12 to Rs. 30 a month are being generally introduced; in Bihar and Orissa the stipends paid to aided school teachers have been regulated; in the Central Provinces a sum has been carmarked for rendering pens onable the pay of all masters drawing Rs. 11 and over. Among developments in Muhammadan education the foundation of an Islamia College at Peshawar has been conspicuous. A committee considered the foundation of a Technological Institute in Calcutta. Other important committees deliberated during the period on primary education, the education of Muhammadans and other important subjects. It should be observed that the Statistical

tables differ from those given last year in the new arrangement necessitated by the rearrangement of the provinces of Bengal and Bihar and Orissa.

Recent Developments.

The main developments of the last and of immediately preceding years have been describ-ed in the resolution which appeared in the Gazette of India published on the 22nd February 1913, which also laid down the policy of the Govern-ment of India. The year witnessed the assertion at the Imperial Durbar by com-mand of His Most Gracious Majesty the King-Emperor of the predominant claims of educational advancement, the announcement of a recurring Imperial grant of 50 lakhs for the promotion of truly popular education, and the high expression of his hopes and wishes for the expansion and improvement of education delivered by His Majesty the King-Emperor in denvered by Instantony an address presented by the Calcutta University. In addition to the recurring grant of 50 lakhs a recurring grant of 50 lakhs are unring grant of 50 lakhs are unring grant of 50 lakhs was sanctioned for university and higher education, and a non-recurring grant of 65 lakhs was also made. There has been of lakhs was also made. There has been expansion in expenditure accompanied by an increase of those under instruction. Other features of the year have been the

collection of materials for the preparation of

Statement of Educational Progress in CENTRAL PROVINCES and BERAR.

	1907-08.	1908-09.	1909-10.	1910–11.	1911-12.	1912-13.
Area in square miles	180,174 6,793,832 6,965,191 13,759,023	No change.	No change.	130,174 7,764,777 7,832,712 15,597,489	117,935 7,766,007 7,833,993 15,600,000	No change.
Public Institutions for Males.		i		20,001,400	10,000,000	
Number of arts colleges	3 31 2,777	34 2,892	3 35 3,019	3 35 3,094	35 3,195	$\begin{array}{c} 4\\39\\3,471\end{array}$
Male Scholars in Public Institutions. In arts colleges In primary schools Percentage of male scholars in public institutions to male population of school-going age.	381 2,305 187,387 23.2	457 2,657 199,526 25·4	479 3,059 212,857 26 · 2	514 3,236 216,750 23·1	608 3,102 228,255 24 · 2	705 8,547 248,439 25 9
Public Institutions for Females. Number of arts colleges	 261	4 287	· · · 4	 4 301	 5 309	
Remale Scholars in Public Institutions. In arts colleges	26 20.801 2·2	20 23,230 2·5	24 26,669 2.8	23 26,033 2·4	28 27,948 2·6	322 51 30,389 2.8
TOTAL SCHOLARS in public institutions Maic	234,859	250,602	266,850	269,062	282,257	302,077
Femalc	23,156	25,831	29,373	28,452	30,729	32,854
Total	258,015	276,433	296,223	297,514	312,986	334,931
TOTAL SCHOLARS (both male and female) in all institutions.	258,308	276,700	296,305	297,620	313,205	335,248
Expenditure (in thousands of rupees.) From provincial revenues	8,89 9,19 1,65	. 9,98 11,74 1,58	10,92 10,65	11,48 11,05	10,64 12,08	11,87 13,88
Total Expenditure from public funds	19,73 1,65	23,30 1,79	1,59 23,16 1,95	1,88 24,41 2,29	2,93 25,61	3,70
From other sources GRAND TOTAL OF EXPENDITURE	3,38	3,87	3,81	4,15	2,84 4,16	8,67 4,76
GRAND TOTAL OF EXPENDITURE	23,10	20,90	28,92	80,85	82,65	37,88

Indian Education in the Central Provinces.

extensive schemes for the spread of elementary education, and, in certain provinces, for the improvement of secondary education; the growth of new ideas regarding university teaching, which has resulted in the proposal for at teaching and residential university at Dacca, and the establishment of Frofessorships, Readerships, and Lectureships in Universities like those of Calcutta and Bombay; the generous gifts of Sir T. N. Palit and Dr. Rash Behari Ghose to the University of Calcutta; the creation of a department of community.

Statement of Educational Progress in ASSAM.

						1911-12.	1912-13.
Area in square miles						61,471	1
Population }	•• ••	••	••	• •		8,638,287	No change.
Female	•	• •				3,421,570]
		Тота	L POP	ULATION	r -	7,059,857	
Public Insti	tutions for .	Males.			-		·
Number of arts colleges						2	1 .
Number of high schools	••	••	••	••	::!	27 27	27
Number of primary scho	ools		::	• • •		3,469	3,534
. Male Schola	rs in Publ	ic Institu	utions.				
In arts coneges In high schools	••	••	• •	• •		295	360
In primary schools	••	••	• •	• •	[8,723 132,151	9,985 138,236
Percentage of male Scho population of school-g	lars in pul oing age.	blic inst	itutio	ns to 1	nale	29 · 1	30.8
Public I	nstitutions f	or Fem	iles.		-		¦
Number of arts colleges	, -						}
Number of high schools Number of primary scho				••		1	2
		••	• •	• •		242	256
Female Schola	rs in Public	Institu	tions.				
In arts colleges							
In high schools In primary schools	••	••	٠	• •		201	352
Percentage of female	scholara i	nnublic		::		16,836	17,845
female population of s	school-going	age.	ın st	itutions	to	3.5	3.7
TOTAL SCHOLARS in	public inst	itutiona	ĴМ	ale		159,101	168,364
	-		∫Fe	male		17,931	19,085
			Tora			177,032	187,449
TOTAL SCHOLARS (be	oth male ar	d femal	e) in a	ll instit	u	182,112	194,288
Expenditure (in	ı thousands	of mmee	ماه		-		
From provincial revenue From local funds	ев	•••	•,•		1	E 0#	
From municipal funds	··. ··		••	::	::	5,87 5,03	7,71 5,82
		• •	• •			14	16
Total Expenditure from From fees	public fun	ds 1			j-		
From fees From other sources		:: ∻		••	·• i	11,04	13,69
_			• • • • • • • • • • • • • • • • • • • •	• •	::	2,79 2,26	3,02
GRAND TOTAL OF EXPER	ND FFETTO W			. •	-	2,20	2,33

of Educational Progress in the NORTH-WEST FRONTIER PROVINCE.

	1907-08	1908-09.	1909–10.	191011.	1911–12.	1912–13.
Area in square miles Population	16,466 1,159,306 966,174, 2,125,480	No change.	No change. {	13,193 1,182,102 1,014,831 2,196,933	No change.	No change.
Public Institutions for Males. Number of arts colleges	1 12 256 22 3,562 11,271 10·0	1 12 254 22 3,617 11,415 10·1	1 12 267 19 4,255 12,069 11 · 2	1 12 264 22 4,486 13,034 11.8	1 12 260 38 5,146 14,129 13 · 1	1 12 335 37 5,438 16,899
to male population of school-going age. Public Institutions for Females. Number of arts colleges Number of primary schools Number of primary schools Female Scholars in Public Institutions. In arts colleges In primary schools In primary schools	24 1,337	23 1,301	25 1,576	27		20
Percentage of female scholars in public institu- tions to female population of school-going age. TOTAL SCHOLARS in public institutions. { Male	17,323 1,548 18,871 29,243	1 · 1 17,630 1,605 10,235 28,891	1 · 3 19,589 1,873 21,462 30,045	20,910 2,093 23,012 31,891	23,236 2,247 25,483 34,011	27,34 27,34 2,390 29,740 38,47:
Expenditure (in thousands of rupecs). From provincial revenues From local funds From municipal funds From municipal funds From fees From other sources GRAND TOTAL OF EXPENDITURE	*58 95 45 1,98 40 32 2,70	*80 83 55 2,18 40 61 3,19	*58 91 53 2,02 45 65	11,35 92 01 2,88 47 53	99 1,42 68 3,09 56 63 4,28	‡{ 3,68 3,90 1,77 8,50 69 44 9,68

Imperial Revenues.
 Including Rs. 58,215 from Imperial Revenues.
 Including Rs. 2,60, 1,60 and 1,04 in thousands respectively from Imperial grants.

Statement of Educational	Progress i	in	COORG.
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State	ment of Late					· · · · · · · · · · · · · · · · · · ·
	1907-08.	1908-09.	1909–10.	1910-11.	1911–12.	1912–13.
Area in square miles	1,582 100,258 80,349 180,607	No change.	No change.	No change. {	1,582 97,279 77,697 174,976	No change.
TOTAL POPULATION Public Institutions for Males.	180,007					
Number of arts colleges	 81	 82		 1 81	1	1 84
Male Scholars in Public Institutions.						
In arts colleges In high schools In primary schools Percentage of male scholars in public institutions to male population of school-going age.	298 2,929 22·5	288 3,427 25 · 7	240 3,688 27 · 2	226 3,721 27 · 2	206 3,970 29 • 7	201 4,523 33·6
Public Institutions for Females.						
Number of arts colleges	. 5	:: 5	5	6	∷ 6	:: 6
Female Scholars in Public Institutions.						
In arts colleges In high schools In primary schools Percentage of female scholars in public institu- tions to female population of school-goung age.	 1,143 9·6	1,421 12·0	1,588 13·6	1,721 15·0	1,773 16 0	1,943 17·4
FOTAL SCHOLARS in public institutions.	3,380	3,869	4,087	4,099	4,342	4,909
Female	1,163	1,447	1,644	1,811	1,681	2,033
Total	4,543	5,316	5,731	5,910	6,203	6,942
COTAL SCHOLARS (both male and female) in all institutions.	5,004	5,792	6,335	6,640	6,811	7,545
Expenditure (in housands of rupees). From provincial revenues From local funds	24 11	26 11	30 12	61 12	39 13	75 13
rom municipal funds	1	î	· î	ĩ	2	2
otal Expenditure from public funds	36 12 3	38 12 3	43 12 5	74 12 6	54 13 6	90 13 7
GRAND TOTAL OF EXPENDITURE	51	58	60	92	78	110

The Hindu University Movement.

There were originally three distinct movements in favour of founding a Central Hindu University. In the first place, in 1904, the Hon. Pardit Madan Mohan Malaviya made proposals which were confirmed and approved by the Sanatan Dharma Mahasabha or Congress of Hindu Religion which met at Allahagress of Hindu Religion which met at Allahabad in January 1906. About that time, Mrs. Annie Besant also put forward the idea of establishing a University at Benares and applied to the Government for a charter. In the third place, a number of Hindu gentlemen under the guidance of the Hon. Maharaja Sir Rameshwar Singh Bahadur, K.C.I.E., of Darbanga were considering the possibilities of starting an educational institution at Benares. The leaders of these movements soon recognised that a union of forces was essential, and in April 1911 Mrs. Besant and the Hon. Pandit Madan Mohan Malaviya met at Allahabad to consider possible lines of agreement. This meeting was followed shortly afterwards by another, when it was agreed that the first governing body should consist of representatives of the Hindu community, Mrs. Becant and representative trustees of the Central Hindu College and also that the Theological faculty should be entirely in the hands of Hindus. At the same time Mrs. Besant agreed to withdraw her petition for a charter which was then before the Secretary of State. At subsequent meetings presided over by the Maharaja Baha-dur of Darbhanga a draft constitution was arranged and it was decided to walt upon the Hon. Member for Education and lay before him the provisional scheme. In the mean-time, deputations for the collection of funds were instituted and these visited the leading centres in India. The result was most satisfactory. Amounts, big and small, were promised not only from India, but from Indians so far afield as Borneo, Mauritius and South Africa; and besides Hindus of all denomina-tions and stations in life, some Mahomedans, and a few Europeans, official as well as un-official, have promised to contribute. The total receipts on October 20, 1913, amounted to Rs. 28,24,009-11-5 to which may be added the capitalised value of the annual gitts in perpetuity of the Jodhpur, Kashmir and Bikanir Durbars. And a year later the grand total of receipts was approximately 42 lakhs. It is, therefore , confidently believed that there will be no difficulty in collecting the balance of the minimum of Rs. 50,00,000 required by Government.

Government Approval .- In October 1911, Sir Harcourt Butler wrote a very sympathetic etter signifying the approval of Government to the scheme and indicating the conditions laid down by the Government of India:—

1. The Hindus should approach Government

in a body, like the Mahomedans.

2. A strong, efficient and financially sound with an adequate European college staff should be the basis of the scheme.

3. The University should differ from exist-ing Indian Universities by being a ing Indian Universities by being a feaching and residential institution and by offering religious instruction.
4. The movement should be entirely edu-

cational.

5. There should be the same measure of Government supervision as in the case of the proposed University at Aligarh.

It was subsequently added that a sum of Rs. 50,00,000 must be collected, but the capital ised value of the properties transferred in trust and the perpetual grants made by the Maharajas of Jodhpur, Kashmir and Bikanir may be included.

Objects of the University .- These may be said to be as follows :-

- To promote the study of the Hindu Shas tras and of Sanskrit literature generally, as a means of preserving and popular-ising the best thoughts and cultur-of the Hindus and all that was good and great in the ancient civilisation of India.
- 2. To promote learning and research generally in arts and science in all branches.
- 3. To advance and diffuse such scientific. technical and professional knowledge-combined with the necessary practical training, as is best calculated to promote indigerous industries and develop the material resources of the country.
- 4. To promote the building up of character in youth by making religion and ethican integral part of education.

Proposed Faculties.-In a letter to Sir Harcourt Butler the Maharaja Bahadur of Darbharga has given an outline of the proposed faculties, which will be those of Oriental studies. Theology, Arts, Science (Pure and Applied) and Law. The main objects of the first-named will be to foster the study of Sanskrit and Its literature. It is proposed to place in charg of the work a Europear Sanskrit scholar who will be assisted by Indian professors and pan dits of the old class. The faculties of Arts and Science will work for the present on the lines laid down by the existing universities. The study of some special branch of technical education will be best inaugurated under the heading Applied Science which will be expanded into a Faculty of Technology in due course. The Faculty of Law will specialise in the Hindu Law and its study from original sources. It is hoped also that in course of time there will be Faculties or Colleges of Agriculture, Commerce, Medicine, Surgery and other branches of knowledge such as Music and the Fine Art.

Although denominational in character, the proposed University will be open to all casts and creeds. Provision for instruction and examination in Theology and Religion will be made for Hindus only and such instruction will, in their case, be compulsory. Subject to the general control of the Senate, the instruction of youths of Jain, Sikh and other faiths will be in the hands of sub-committee consisting of representatives of their respective religions. The University will be open for women, subject to such conditions as the regulations may prescribe. The constitution of the University will be modelled on those of Sheffield, Marchester and Birmirgham and in this respect will differ from those of the existing universities in India.

Proposed constitution.—In July, 1914, Sir Harcourt Butler addressed a letter to the Maharajah of Darbhanga, in which he stated that the Government of India and the Secretary of State had come to the conclusion that the best form of constitution would be to constitute the Lieutenant-Governor of the United Pro-vinces ex-officio Chancellor of the University with certain opportunities for giving advice and certain powers of intervention and control. "The Hindu University, he wrote," though not empowered to affiliate colleges from outside will be Imperial in the sense that subject to regulations, it will admit students from all parts of Inda, on the other hand it will be localised in or by Benarcs. There will be obvious advantages in having as Chancellor of the University the Lieutenant-Governor of the province who is also Chancellor of the Allahabad University and who will be able to help to corelate the work between the two, to secure them corresponding advantages and to foster a spirit of healthy co-operation. Moreover, such a constitution is in accord with the general policy of decentralization which is now pursued by the Government of India."

The powers which, in the opinion of Government, this necessary to reserve to the Chancellor were enunerated. Some of these had been suggested by the University Committee, others were emergency powers which might never be exercised. The principle underlyng them all is that, in the interest of the rising generation and the parents, the Government must be in co-operation with University and in a position to help it affectively and secure sound finance. The interest of the Government and the students

and their parents in this matter are necessarily indentical.

In concluding the letter referred to above, Sir Harcourt Butler said:—"In order to meet the sentiment of the subscribers it has been conceded that the University shall be called the Benares Hindu University, it will have no religious test and will be open to students o fall denominations as well as Hindus. Hindu theolgical teaching and observances will not be compulsory for any but Hindus. It w Il also be a teaching and residential university. The terms mentioned above represent the conditions, the acceptance of which is a necessary precedent to the elaboration of any de-tailed scheme. The Secretary of State reserve nis final decision on the details of the constitution of the university until they are before him in the form of a draft bill and regulations. In conclusion, I have to state that when a satisfactory scheme has been evolved the Government of India will be glad to show their interest in the new university by making a liberal financial grant in aid."

A conference was to have been held, during the latter part of 1914, to discuss the above terms, but it has been postponed. The terms were, however, immediately refused by Misses the Besant who, in a letter to the Press, said:—"The Hindu University will run in double harness with the Government university and the raison d'elre of its existence will disappear. Moreover if we accept these terms we do not know what further disabilities will be imposed in drafting

the constitution.

The office of the Organisation Committee is in Allahabad, and the Secretary is the Hon. Pandit Sandarlal, c.i.e.

The Mahomedan University.

The movement in favour of transforming the Mahomedan Anglo-Oriental College at Allgarh into a teaching and residential University was started as early as the end of last century. It was hoped that the foundation of such an institution would awaken among Mahomedans the memory of their old seats of learning and prove an incentive to them in the future to regain the intellectual eminence from which they seem to have fallen of late years. Some time ago it was observed in a government report that the backwardness in education on the part of Mahomedans was due partly to poverty, partly to indifference and partly to their educational wants not being the same as those of the remainder of the population amongst whom they live. In this years' report, however, it is stated that a remarkable awakening on the part of Mahomedans in this direction has been witnessed during the last decade, when the total number of pupils under instruction in all classes of institutions rose by nearly 60 per cent. On the other hand in the matter of higher education their numbers remain well below that proportion notwithstanding the large relative increase. It was the aim of Sir Syed Alimed Kalan, K.C.S.L., years ago to place the benefits of a liberal education withit details in the large relative in a light of a liberal education withit details.

Mahomedan community and in 1875 a schoo was opened which three years later was converted into the Aligarh College. Under the Inspiring influence of Mr. Beck and of Mr. (now Sir) Theodore Morison great strides have been made. The college is now affiliated to the Allahabad University for the First Arts and B.A., for the B. Sc. in mathematics, chemistry and physics, for the M. Sc. in mathematics; and for the M. A. in English, Arabic, Persian, Sanskrit, History, Philosophy, Political Economy and Mathematics. The students of the college are also instructed in the theology and faith of Islam.

the population amongst whom they live. In this year's report, however, it is stated that a remarkable awakening on the part of Mahomadans in this direction has been witnessed using the last decade, when the total number of unpils under instruction in all classes of satisfactory response. In addition, a draft the other hand in the matter of higher education their numbers remain well below that proportion notwithstanding the large relative increase. It was the aim of Sir Syed Ahmed Khan, K.C.S.L., years ago to place the benefits of a liberal education within the reach of the

it will make arrangements especially for the have already been put forward in the Punjab religious teaching of the Mahomedan undergraduates and graduates. In 1912 a reply of the movement will realise that this condigraduates and graduates. In 1912 a reply was received from Sir Harcourt Butler which was on the whole sympathetic towards the movement. At the same time the Government of India laid down certain conditions which were similar in the main to those afterwards Imposed in the case of the suggested Hindu University. One of the conditions was that the new University should not possess the powers of affiliating Moslem institutions situated in other parts of India. This restric-tion of the power of atiliation to local areas only is the result of the adoption by the Govermment of India of a considered policy of
general application. The Government intends
thereby to encourage the development of
teaching and residential universities, instead
of providing any further extension of the socalled "federal" or examining universities.
The decision is probably a wise one, but it is
a pity that it has been so long delayed, as
considerable disappointment, has been earlied and the growth of the considerable disappointment has been earlied and the considerable disappointment has been earlied and the convernment will give way
the considerable disappointment has been earlied and the convernment will give way
the considerable disappointment has been earlied and the convernment will give any the considerable disappointment has been earlied and the convernment will give any the considerable disappointment has been earlied and the convernment will give any the considerable disappointment has been earlied and the convernment that the University of Aligarh instead of as they wish the Moslem
University and also that the powers vested
to be exercised by the Government of India.

This third decision of the Government that the University of Aligarh instead of as they wish the Moslem
University and also that the powers vested
to be exercised by the Government of India.

This third decision will certainly place the constitution will certainly place the constitution and the control of the convergence of the converge only is the result of the adoption by the Gov-The decision is probably a wise one, but it is a pity that it has been so long delayed, as considerable disappointment has been caused amongst Mahomedans all over India; and it University at Benares it is anticipated that is stated that it may be the cause of the design and it university at Benares it is anticipated that is stated that it may be the cause of the design and for the return of subscriptions which lat Patna, Nagpur and Rangou.

tion of the Government of India may be beneficial. The difficulties of supervision and inspection already found so great in the case of the larger State universities would be augmented in that of the unofficial communal institutions offering to survey colleges in all parts of India. Moreover, the position and prestige of Aligarh might easily be lowered by the fact that inferior institutions were

linked with it.

The promoters also complain against the decision of the Government that the Univeron these matters as besides the proposed Hindu

Local Self-Government.

Throughout the greater part of India the | village constitutes the primary territorial unit of Government organisation, and from the villages are built up the larger administrative entities-tahsils, sub-divisions, and districts.

The typical Indian village has its central residential site, with an open space for a pond and a cattle stand. Stretching around this nucleus lie the village lands, consisting of a cultivated area and (very often) grounds for grazing and wood-cutting... The inhabitants of such a village pass their life in the midst of these simple surroundings, welded together in a little community with its own organisation and government, which differ in character in the various types of villages, its body of detailed customary rules and its little staff of functionaries, artisans and traders. It should be noted, however, that in certain portions of India, e. g., in the greater part of Assam, in Eastern Bengal, and on the west coast of the Madras Presidency, the village as here described does not exist, the people living in small collections of houses or in separate homesteads" .- (Gazetteer of India.)

The villages above described fall under two main classes, viz.,-

main classes, viz.,—
Types of Villages.—"(1) The 'severalty' or raiyatwari village, which is the prevalent form outside Northern India. Here the revenue is assessed on individual cultivators. There is no joint responsibility among the villagers, though some of the non-cultivated lands may be set apart for a common purpose, such as grazing, and waste land may be brought under the plough only with the permission of the Revenue

authorities, and on payment of assessment. The village government vests in a hereditary headman, known by an old vernacular name, such as patel or reddi., who is responsible for law and order, and for the collection of the Government revenue. He represents the primitive headship of the tribe or clan by which the village was originally settled.

"(2) The joint or landlord village, the type prevalent in the United Provinces, the Punjab and the Frontier Province. Here the revenue was formerly assessed on the village as a whole, its incidence being distributed by the body of superior proprietors, and a certain amount of collective responsibility still, as a rule, remains. The village site is owned by the proprietary body, who allow residences to the tenantry, artisans traders and others. The waste land is allotted to the village, and, if wanted for cultivation, is partitioned among the shareholders. The village government was originally by the punchayet or group of heads of superior families. In later times one or more headmen have been added to the organisation to represent the village in its dealings with the local authorities; but the artificial character of this appointment, as compared with that which obtains in a raivatwari village, is evidenced by the title of its holder, which is generally lambardar, a vernacular derivative from the English word 'number.' It is this type of village to which the well-known description in Sir H. Maine's Village Communities is alone applicable, and here the co-proprietors are in general a local oligarchy with the bulk of the village population as tenants or labourers under them."

Village Autonomy.—The Indian villages formerly possessed a large degree of local autonomy, since the native dynasties and their local representatives did not, as a rule, concern themselves with the individual cultivators, but regarded the village as a whole, or some large landholder as responsible for the payment of the Government revenues, and the maintenance of local order. This autonomy has now disappeared owing to the establishment of local civil and criminal courts, the present revenue and police organisation, the increase of communications, the growth of individualism, and the operation of the individual raigustouri system, which is extending even in the north of India. Nevertheless, the village remains the first unit of administration; the principal village functionaries—the headman, the accountant, and the village watchman—are largely utilised and pald by Government, and there is still a certain amount of common village feeling and interests.

Punchayets.—For some yearst here was an active propaganda in favour of reviving the village council—tribunal, or Punchayet and the Decentralisation Commission of 1908 made the following special recommendations:—

o" While, therefore, we desire the development of a punchapet system, and consider that the objections urged thereto are far from insurmountable, we recognise that such a system can only be gradually and tentatively applied, and that it is impossible to suggest any uniform and definite method of procedure. We think that a commencement should be made by giving certain limited powers to Panchapats in those villages in which circumstances are most favourable by reason of homogeneity, natural intelligence, and freedom from internal feuds. These powers might be increased gradually as results warrant, and with success here, it will become easier to apply the system in other villages. Such a policy, which must be the work of many years, will require great care and discretion, much patience, and judicious discrimination between the circumstances of different villages; and there is a considerable consensus of opinion that this new departure should be made under the special guidance of sympathetic officers."

This is, however, still mainly a question of future possibilities, and for present purposes it is unnecessary to refer at greater length to the subject of village self-government. An Act was passed in 1912 to provide for the establishment of punchayets in the Punjab; but it was contemplated that the areas for which these bodies would be established would be larger than villages, and their functions are limited to the disposal of petty civil suits. In the Punjab, it may be mentioned, village self-government survives to a considerable extent, on a basis of custom, and the desirability of bringing it under statutory regulation has been questioned.

P Municipalities.—The Presidency towns had some form of municipal administration, first under Royal Charters and later under statute, from comparatively early times, but outside of them there was practically no attempt at municipal legislation before 1842. An Act passed in that year for Bengal, which was practically inoperative, was followed in 1850 by an Act applying to the whole of India. Under this Act and subsequent Provincial Acts as

large number of municipalities was formed in all provinces. The Acts provided for the appointment of commissioners to manage municipal affairs, and authorised the levy of various taxes, but in most Provinces the commissioners were all nominated, and from the point of view of self-government, these Acts did not proceed far. It was not until after 1870 that much progress was made. Lord Mayo's Government, in their Resolution of that year introducing the system of provincial finance, referred to the necessity of taking further steps to bring local interest and supervision to bear on the management of funds devoted to education, sanitation, medical charity, and local public works. New Municipal Acts were passed for the various Provinces between 1871 and 1874, which, among other things, extended the elective principle, but only in the Central Provinces was popular representation generally and successfully introduced. In 1881-2 Lord Ripon's Government issued orders which had the effect of greatly extending the principle of local self-government. Acts were passed in 1883-4 that greatly altered the constitution, powers, and functions of muni-cipal bodies, a wide extension being given to the elective system, while independence and responsibility were conferred on the committees of many towns by permitting them to elect a private citizen as chairman. Arrangements were made also to increase municipal resources and financial responsibility, some items of provincial revenue suited to and capable of development under local management being transferred, with a proportionate amount of provincial expenditure, for local objects. The general principles thus laid down have continued to govern the administration of municipalities down to the present day. In several Provinces there are, besides municipalities, "notified areas," i. e., small towns which are not fit for full municipal institutions, but to which parts of the Municipal Acts are applied, their affairs being administered by nominated committees. These are to be regarded as embryo municipalities.

Local Boards.—The establishment of boards for dealing with local affairs in rural areas is a relatively recent development. No such boards existed in 1858, though some semi-voluntary funds for local improvements had been raised in Madras and Bombay, while in Bengal and the United Provinces consultative committees assisted the district officers in the management of funds devoted to local schools, roads and dispensaries. The system of raising cesses on land for purposes of this description was introduced by legislation in Madras and Bombay between 1865 and 1809; in the case of Bombay, nominated committees were to administer the proceeds of the cess. The year 1871 saw a wide development of legislation for local administrative purposes, partly due to growing needs, and partly the result of the financial decentralisation scheme of Lord Mayo's Government, various Acts being passed in different Provinces providing for the levy of rates and the constitution of local bodies, in some cases with an elected element, to administer the funds. The whole system was re organised in accordance with the policy of Lord Ripon's Government. Under the Orders of 1881-2 the existing local committees were to be replaced by a system of Doards extending all over the country. The lowest administrative unit was to be small enough to

secure local knowledge and interest on the part of each member of the board, and the various minor boards of the district were to be under the control of a general district board, and to send delegates to a district council for the settlement of measures common to all. The non-official element was to preponderate, and the elective principle was to be recognised, as in the case of municipalities, while the resources and financial responsibilities of the boards were to be increased by transferring items of provincial revenue and expenditure. It was, however, recognised that conditions were not sufficiently advanced or uniform to permit of one general system being imposed in all provinces, and a large discretion was left to Local Governments. The systems introduced in different parts of India by the Acts of 1883-5 (most of which are still in force) consequently varied greatly.

Mofussil Municipalities.-The total number of municipalities has altered little for many years past. New municipalities have been formed from time to time, but there have also been removals from the list. There was, indeed, a rather marked decrease according to the last decennial review (1902-12) and the number in 1911-12 was actually less than it was thirty years earlier. This result was brought about by the reduction to "notified areas" of a considerable number of the smaller municipalities in the Punjab and United Provinces. The figures showing the constitution of the municipalities call for little comment. Taking them as a whole, the proportion of elected members was in 1911-12 rather more than a half, whereas in 1901-02 it was slightly less. The proportions of non-officials and Indians, already high in 1901, also increased during the decade. Elected members are in the majority in the cities of Bombay, Madras and Rangoon and in Bengal (excluding Calcutta), Bihar and Orissa, the United Provinces, and the Central Provinces; in the North-West Frontier Province and Baluchistan, on the other hand, there are no elected members, and in Burma they form a small minority. Nonofficials outnumber officials everywhere, and Indians outnumber Europeans to an even greater degree, except in Rangoon. Taking the municipalities individually, some of the commissioners are el cted in the great majority of cases. Re-presentation in the larger municipalities is in general by wards or classes of the coommunity, or both. Voters must be residents not below or both. a specified age, and property or status qualifica-tions are generally laid down. The Chairman or President of the Municipal Corporation is sometimes nominated under the orders of the Local Government, but more often chosen by the commissioners from among themselves. The only provinces in which there has been in the past a large proportion of elected non-official chairmen are Madras, the Central Provinces, and the two Bengals; but Bombay has now to be added to the list, in view of the changes made in that province in the closing years of the decade. Various provisions exist as to the exercise of control by Government, particularly as regards finance and appointments. No loans can be raised without Government sanction, and generalized without Government sanction, and generalized without Government sanction, and generalized without Government sanction, and generalized without Government sanction, and generalized without Government sanction, and generalized without Government sanction. ally speaking municipal budgets, and alterations n taxation, require the sanction of the Local Government, or of a Commissioner. Proposals for giving municipal committees a larger degree

of independence were put forward by the Decentralisation Commission, and some action on these lines has been taken. Government may provide for the performance of any duty which the commissioners neglect, and may suspend them in case of incompetence, default, or abuse of powers.

Municipal Revenues—In the provinces in which octrol is levied generally, it is the most important source of income. The octrol duties have admitted disadvantages, but they are familiar through long usage to the inhabitants of the North and West of India. The possibility of abolishing them was under consideration during the last decade, and it was decided in the United Provinces to take this step in many municipalities, but the alternative of direct taxation is not a popular one. Precautionare taken to limit the tax to articles actually consumed in a town, and to prevent it from becoming a transit duty. The list of dutiable articles contains in each case only staple articles of local consumption and goods in transit arrallowed to pass in bond or receive a refund of the duties on leaving the town. Articles of food are the most important class of goods subject to octrol taxation.

Incidence of Taxation.—A tax on house and lands is levied to some extent in all provinces, and is the main source of municipal revenue where there is no octrol. Taxes on professions and trades, and on animals and vehicles, are generally levied, as also is a water-rate in the large towns that have been furnished with water works. Tolis on roads and ferries and lighting and conservancy rate contribute to the receipts in most provinces. The average incidence of municipal taxation per head of municipal population in 1911-12, for British India, as a whole, was Rs. 2-98. Leaving out of account the Presidency towns, where the figures are higher, the provincial averages ranged from Rs. 3-08 in the North-West Frontier Province and Rs. 2-38 in the Punjab, to Rs. 1-35 in Madras and Rs. 1-02 in Coorg. Other sources of revenue are municipal lands and buildings, conservancy receipts (other than the rates), educational and medical fees, receipts from markets and slaughter-house (a very important item in Burma), and interest on investments.

Municipal Functions.—Municipal functions are classified under the heads of public safety, health, convenience and instruction. Within these heads the duties are many and varied. Expenditure, apart from that on general administration and collection, which amounts to something less than 10 per cent. of the total is similarly classified. The principal normal functions of municipallities now are the construction, upkeep, and lighting of streets and roads, and the provision and maintenance of public and municipal buildings; the preservation of the public health, principally with reference to the provision of medical relief, vaccination, sanitation, drainage and water-supply, and measures against pidemies; and education, particularly primary education. Money is raised by loan for water-supply and drainage schemes the cost of which is too large to be defrayed from ordinary revenues.

THE PRESIDENCY TOWNS.

The corporations of the Presidency towns | occupy a special position, and are constituted under special Acts.

Calcutta.—The municipal administration of Calcutta is regulated by the Calcutta Muniof Calcutta is regulated by the Calcutta Muni-cipal Act of 1899, which replaced an Act of 1888, the working of which had not been altogether satisfactory. The Corporation, as remodelled by the Act of 1899, consists of a Chairman, appointed by the local Government, and fity commissioners, half of whom are elected at triennial ward elections, while the remainder are appointed, four each by the Bengal Chamber of Commerce and the Calcutta Trades Associtwo by the Port Commissioners, and fitteen by the local Government. The Act also constitutes a smaller body, the General Committee, consisting of the Chairman with twelve of the commissioners, four elected by the ward commissioners, four elected by the other commissioners and four appointed by the local Government. There are various special committees and sub-committes.

The entire executive power is vested in the Chairman, to be exercised subject to the approvsanction of the Corporation or General Committee, whenever this is expressly directed in the Act. To the Corporation are reserved the right of fixing the rates of taxation and such general functions as can be efficiently performed by a large body, while the General Committee stands between the deliberative and executive authorities, and deals with those matters that are ill-adapted for discussion by the whole Corporation but too important to be left to the disposal of the Chairman alone. Power is reserved to the local Government to require the municipal authorities to take action in certain circumstances, and their sanction is required to large projects.

Bombay.—The municipal corporation of Bombay, which formed the model for the new Calcutta constitution, dates in its main features Calcutta constitution, dates in its main reatures from 1872 and continues to be regulated by the Act of 1888 as amended. Some important changes were made by the City of Bombay Police Charges Act of 1907, which relieved the corporation of the police charges of the city, and made over to them in exchange further responsibility for primary education, medical relief, and vaccination.

The Corporation consists of 72 councillors, of whom 36 are elected by wards, 16 by the

The duties and functions assigned to the municipalities in urban areas are in rural areas entrusted to District and Local Boards. The systems of rural local government in the various provinces differ widely. The Madras organi-sation, which provides for three grades of local sation, which provides for three grades of local boards, most nearly resembles the pattern set in the original orders. Throughout the greater part of that province import villages and groups of villages are organised as "Unions", each controlled by a PANGHAYAT. These bodies receive the proceeds a light tax on houses, and spend them mainly on sanitation. Next come the Taluk Boards, which form the agency for the Taluk Boards, which form the agency for

justices of the peace, 2 by the Fellows of the University, and 2 by the Bombay Chamber of Commerce, the remaining 16 being appointed by Government. The general municipal government is vested in the Corporation, while the ordinary business is transacted by a Standing Committee of 12 councillors, 8 appointed by the Corporation and 4 by Covernment. The by the Corporation and 4 by Government. The president of the corporation is elected by the councillors but is not, like the chairman of the Calcutta Corporation, an executive officer. The chief executive authority is vested in a separate officer, appointed by Government, usually from the ranks of the Indian Civil Service, styled the Municipal Commissioner, who can, however, be removed by a vote of 45 council-

Madras.—A new Municipal Act for the City of Madras was passed in 1904. By this Act the number of the municipal commissioners, to whom as a body the name Corporation was now applied, was increased from 32 to 36, besides the President, and provision was made for the appointment of three commissioners each by the Madras Chamber of Commerce and the Madras Trades Association, and of two by such other associations, corporate bodies, or classes of persons, as the Local Government might direct, while the number to be elected as divisional elections was fixed at 20. Under the Act previously in force the total number of elected commissioners was not more than 24. The remaining commissioners were appointed, as they are under the new Act, by the Local Go-vernment, who also appoint the President. The Act of 1904 also introduced various other changes in the law which need not be specially noticed; it was modelled to a large extent on the Calcutta Act of 1899. Executive authority is vested in the President, who is removable under the existing law, by a vote of 28 com-missioners. A Standing Committee, consist-ing of the president and eight other commis-sioners, is mainly concerned with financial and building question. The President, like the chief executive officers in Calcutta and Bombay, is usually a member of the Indian Civil Service. The number of persons enrolled as voters in 1911-12 was 9,824 rather more than 0 per cent. of the total adult male population. The control of the Local Government over the municipality has hitherto been stringent than in the other Presidence towards. than in the other Presidency towns.

DISTRICT AND LOCAL BOARDS.

local works in the administrative sections into which the districts are divided. Finally, there is the District Board, with general control over the local administration of the district. In Bombay there are only two classes of boards, for districts and TALUKAS respectively. In Bengal, the Punjab, and the North-West Frontier Province the law requires a District Board to be established in each district, but leaves the establishment of subordinate local boards to the discretion of the Local Government. The Bengal Act authorises the establishment of village Unions also, but this provision has not been very largely used. The United Provinces

Act formerly in force directed the establishment \ of district and sub-district boards, but the latter were abolished, as mentioned below, in 1906. The system in the Central Provinces bears some resemblance to that which prevails in Madras, the villages being aggregated into "circles", and the circles into "groups", each of which has a Local Board, while for each district there is a District Council having authority over the Local Boards. In Assam district boards have not been introduced, and independent boards are established in each sub-division. Neither district nor sub-district boards exist in Burma, or in Baluchistan. District boards were started in Lower Burma in accordance with Lord Ripon's Local Self-Government Resolution of 1882, but the members took no active interest in them, and they died out after a few years. The district funds are now ad-ministered by the Deputy Commissioners of districts.

Elective Principle-The degree to which the elective principle has been introduced varies greatly in different parts of India; but there is a considerable proportion of elected members everywhere, except in the North-West Froneverywhere, except in the North west Frontier Province, where the system of election was abolished in 1903. On the whole, however, the principle of representation is much less developed in rural than in municipal areas. In Madras the elective system, previously applied to the detriet beards only was extended to to the district boards only, was extended to the Taluk Boards in 1909. In the United Pro-vinces and the Central Provinces there is a substantial majority of elected members.

Chairmen.—The various Acts usually leave it to the Local Government to decide whether the Chairman of the district board shall be elected or nominated. In most provinces the Collector has, as a general rule, been appointed, though in the Central Provinces the president is elected, and is usually a non-official. United Provinces election, subject to the veto of the Local Government, was prescribed by the Act of 1906, but in practice the Collector is chosen. As regards the subordinate boards, the law and practice vary. Generally speaking, the sub-district boards are on the footing of subordinate committees or agencies of the district boards, with very limited powers and resources; but in Madras they exercise Independent authority, subject to the general control of the district boards, in regard to the less important roads, primary education, medical work, and sanitation.

Provision is made, on much the same lines as in the case of municipalities, for the exercise of control in certain directions by Government or its officers.

Sub-District Boards—The Decentralisation Commission, having in view the admitted failure of sub-district boards as a whole, under existing arrangements, except in Madras and Assam, put forward proposals for making them the principal agencies of rural board admin-istration by giving them independent resources, separate spheres of duty, and large respon-sibilities. Proposals for giving the district boards a larger measure of independence were also put forward.

Revenue and Expenditure.—The sources of income open to rural boards are much narrower and less elastic than those of the municipalities. The greater part of their revenue is derived from a cess which they are empowered to levy on the land, and which usually does not exceed one anna in the rupes on the annual rent value (or, in ryatwari provinces, the Government assessment). The cess is ordina-rily collected by Government agency along with the land revenue, and varies in amount with the latter. Since 1905 the income derived from the land cess has been supplemented by a special Government contribution calculated at the rate of 25 per cent. of that income. Substantial amounts, apart from this special contribution, are granted to the district boards by the Local Governments for various purposes. Apart from receipts in connection with their educational and medical institutions, and markets, the only other important sources of independent revenue are pounds and ferries, and, in Madras, road tolls. Except in Madras, the sub-district boards have generally no in-dependent sources of lneome, and merely receive such moneys as the District Boards may allot to them. In Madras the Taluk Boards receive half the land cess levied in their areas, as well as certain miscellaneous revenues.

Progress in Sanitation.

The history of the sanitary departments in India goes back for about fifty years. During that period great improvements have been effected in the sanitary condition of the towns, though much remains to be done; but the progress of rural sanitation which involves the health of the great bulk of the population has been slow, and incommensurate with the thought and labour bestowed on the subject. reason lies in the apathy of the people and the tenacity with which they cling to domestic customs injurious to health. While the inhabitants of the plains of India are on the whole distinguished for personal cleanliness, the sense of public cleanliness has ever been wanting. Great improvements have been effected in many places; but the village house is still often ill-ventilated and over-populated; the village | features are summarised here.

site dirty, crowded with cattle, choked with rank vegetation, and poisoned by stagnant pools; and the village tanks polluted, and used in-discriminately for bathing, cooking and drinking. That the way to improvement lies through the education of the people has always been recognised".

Of recent years the pace has been speeded up as education progressed, education developup as education progressed, education develop-ed, and funds were available. In a resolution issued in May 23rd, 1914, the Government of India summarised the position at that Line, and laid down the general lines of advance. This resolution (Gazette of India, May 25th, 1914) should be studied by all who desire to understand the present position and policy : its main

The governments in India have moved more rapidly of late. In 1898, the Government of India issued an important statement of policy. In 1993, imperial grants amounting to Rs. 30,00,000 (£ 200,000) a year were made to local Governments. A new department of the Government of India was created in 1910 in order to relieve the Home Department of educations. cation, sanitation and some other branches of the administration. In addition to sanitary conferences held by local Governments, three All-India sanitary conferences were convened at Bombay, Madras and Lucknow, respectively, over which the Hon'ble Sir Harcourt Butler presided as Member of the Governor-General's Council in charge of the department concerned. These conferences were attended by non-officials as well as officials, by laymen as well as pro-fessional sanitarians. Again, the Indian Re-search Fund Association has been founded to further the prosecution of research, and the propagation of knowledge and experimental measures generally in connection with the causation, mode of spread and prevention of communicable diseases. To this fund the Gocommunicative diseases. To this rong the Government of India make an annually recurring grant of 5 lakhs of rupees (£33,333). Moreover, since the constitution of the new department of the Government of India, imperial grants have been made to local Governments and Administrations to the amount of Res. 4,01,47,000 (£ 3,076,466), of which Rs. 55,23,000 (£ 368,200) are recurring, and Rs. 4,06,24,000 (£ 2,708,266) non-recurring. In addition, grants amounting to Rs. 82.33 lakhs

of which will, it is hoped, be expended on rural sanitation. These grants have rendered practicable the execution of schemes which a few years ago seemed beyond the limits of financial possibility; and there can be little doubt that the movement for sanitary reform is now well established and progressive throughout the country.

Organisation.—As a result of the Plague Commission's Report Lord Curzon's Govern-ment took up with vigour the reorganisation of the sanitary department. Research institutes were started and an appointment of Sanitary Commissioner with the Government of India was created. The functions of this officer were to advise the Government of India upon sanitary and bacteriological questions to settle with local Governments the principles on which an advance should be made and to organise and direct research throughout India. The arrangement was not completely successful.

Among the disadvantages, the separation of research from clinical work deterred men from entering the department, and the office work in connection with research prevented the Sanitary Commissioner from undertaking wide and constant touring. The organisation was accordingly modified in 1912. The Sanitary Commissioner is now the independent adviser to the Government of India in all technical and sanitary matters, but all questions of personnel as well as the administration of the bacteriological department and research generally have been placed under the control of the Director-(2 548,866) a year have been made to district General, Indian Medical Service, with the boards in certain provinces, a substantial portion Sanitary Commissioner as his staff officer.

The Sanitary Organisation.

The sanctioned strength of the superior sanitary organisation in India now is

(a) A Sanitary Commissioner with the Government of India.

(b) A bacteriological department comprising-

(i) thirteen laboratory appointments distributed as follows:-Central Research Institute .. 1 Director and 3 Assistants. Central Research Institute
Bombay Bacteriological Laboratory
In Director and 2 Assistants,
King Institute of Preventive Medicine, Madras 1 Director and 1 Assistant,
Pasteur Institute, Kasauli 1 Director and 1 Assistant,
Pasteur Institute, Coonoor 1 Director and 1 Assistant.

(ii) fifteen new appointments recently sanctioned for the prosecution of research work and direct investigation in the field.

(c) The following establishements under local Governments:—

	1	Sanitary	Deputy	Health Officers (a) Sanitary Engineers.					
Province.		Sanitary Comis- sioners.		1st class.	2nd class,	Sanitary Engi- neers.	Deputy or Assistant Sanitary Engineers.		
Madras Bombay (c) Bengal United Provinces Punjab Burma Bihar & Orissa Central Provinces Assam North-West Frontier Delni Total	Province	1 1 1 1 1 1	3 5 5 4 2 2 3 1 1	12 4 6 11 2 4 2 	19 9 17 17 5 16 8 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 2 3 1 2 2 2		
		11	26	45	94	10	16		

Provincial Agency.—In their resolution, dated the 23rd May 1912, the Government of India provided for a large increase in the number of deputy sanitary commissioners and for the appointment of health officers (of the first-class for larger municipalities and of the second-class for the smaller towns) on the lines of detailed proposals received from local Governments. Twelve additional appointments of deputy sanitary commissioner, thirty-five appoint-ments of health officer of the first-class and a large addition to the number of second-class health officers were sanctioned in 1912 and 1913, the entire cost of the additional deputy sanitary commissioners on the basis of the scale of pay fixed for Indians and half the cost of the health officers being met by imperial grants. The Government of India also advised local Governments to take powers, where these did not exist, to require a municipality to appoint a health officer and to veto the appointment of an unfit person. Such powers already exist in the Bombay Presidency, and have recently been taken by legislation in Bengal. Simultaneously, the Government of India recommended the system in force in Madras whereby every municipality is required to employ one or more trained sanitary inspectors in proportion to population. Sanitary inspectors are now being employed in large numbers in towns. In addition, the civil surgeon in every district is the sanitary adviser of the local authorities and in most provinces controls the vaccination staff. The provision of an increased staff of sanitary engineers is engaging urgent attention.

Voluntary Agency.—The Government of India attach great importance to the organisation of voluntary agencies and have recently made a grant of Rs. 20,000 (£1,333) a sum equivalent to that given by the Bombay Government to the BOMBAY SANITARY ASSOCIATION, which was founded in 1903, and now has corresponding branches in several districts and Native States.

Research.-The policy of the Government of India is to keep the control of research under itself, but to decentralise other branches of sanitation. The creation of an imperial department is no departure from that policy, and the large imperial grants already mentioned have been made without any interference with pro-vincial Governments. While the general direction of a policy of public health must remain with the central Government, all detailed control and executive action are, and will be, left to local Governments. The Sanitary Commissioner with the Government of India is a touring officer empowered to consult and confer informally with local Governments and their officers upon matters connected with sanitation. He is not permitted to encroach upon the authority of Local Governments over the officers under their control.

Officers.-The position Provincial Provincial Sanitary Commissioners towards the administrative heads of the medical department varies somewhat in different provinces. The Government of India do not wish to interfere with the arrangements which local Governments may consider best suited to local conditions but they desire to insist on the importance of defining the functions of the two officers and securing to the sanitary commissioner the position of institute was founded at Guindy in Madra-

responsible technical adviser to the local Government in all matters affecting public health.

Sanitary Boards.—In every province, sanitary boards have been composed with varying powers, some being merely advisory, others having authority to sanction schemes and allot funds. These boards are composed of officers belonging to the medical, sanitary, engineering and other branches of the civil services with the addition of non-officials. The Government of India view with favour and confidence the devolution of financial authority and responsibility to these boards, and they commend to local Governments the appointment of a permanent salaried secretary to the board where this has not been done. They believe that such an appointment, wherever made, has resulted in an increase of efficiency.

Training.-Arrangements for training the superior sanitary staff are now engaging the attention of the Government of India. The chief difficulty at present is to provide courses in practical hygiene and in the study of the bacteriology and etiology of tropical diseases. It. is hoped in the near future to make arrangements in India for the former and to utilise the schools of tropical medicine at Calcutta and elsewhere for the latter. Meanwhile, a British diploma in public health is required from candidates for the post of deputy sanitary commissioners and health officers of the first class. The problems of public health in India are vitally complicated by the fact that biting insects are a prominent factor in the dissemination of disease, and it is obviously desirable to provide in India, as soon as possible, a complete course of training for sanitary officers.

Training classes for sanitary inspectors are now held in all the more important provinces.

Department of Public Health.—A substantial beginning has thus been made for the development of a department of public health and Indians have been freely enlisted for It. The posts of deputy sanitary commissioner and health officer are now open to Indians. Nine deputy sanitary commissioners out of 26 and the majority of health officers are Indians. The new bacteriological department consisting of 28 officers is also open to duly qualified Indians.

As health officers and sanitary engineers gradually relieve deputy sanitary commissioners of much of the drudgery of inspection and routine work, it is hoped that the latter will be set free to deal with epidemics and communicable diseases from a higher plane, and to cou-sider issues of public health wider than those which they are able to review to-day. It is therefore important to provide in advance free interchange between them, the laboratory workers and those carrying out practical research in the field.

Progress of Research.—Research is slowly lifting the veil which hides the secrets of disease and mortality and opening up fields of inquiry scarcely thought of a generation ago. The discovery by Sir Ronald Ross of the part played by the mosquito in the communication of malaria and the appointment of the Plague Commission in 1898 are landmarks in the hisnamed the King Institute alter Licutenant-Colonel King, C. I. E., I. M. S., in view of his devoted efforts in the cause of sanitation in that presidency. In 1905 Lord Curzon's Government summed up the position and the policy of the Government of India in regard to the establishment of laboratories for the study of problems of public health in India. The functions of the central laboratory were original research, the preparation of curative sera and the training of scientific workers. The functions of the provincial laboratories were diagnosis and special research connected with local conditions. This policy has been steadily developed. The Central Research Institute has been established at Kasauli. The Plague Research Laboratory at Parci has been extended and re-equipped and is now the bacteriological laboratory for the Bombay Presidency; and a proposal is under consideration to attach to it a school of tropical medicine. A research laboratory and school of tropical medicine are under construction at Calcutta. Pasteur institutes exist at Kasauli and Coonoor. A third is about to be established in Burma, and it is under discussion to establish others in Assam (where it will be combined with a research laboratory) and Bombay.

Besides the routine work connected with the bacteriological diagnosis of disease, anti-rable treatment, the manufacture of various vaccines and sera and general research, these laboratories at different times have been the centres of many special investigations, notable amongst which are those on plague and enteric fever. It is hoped that before long each province in India will have a laboratory fully equipped for research.

Research Fund Association.—The foundation of the Indian Research Fund Association in 1911 has marked an important era in sanitary progress. The control and management of the association are vested in a governing body, the president of which is the Member in charge of the Education Department of the Govern-ment of India. The governing body is assisted by a scientific advisory board, of which not less than three members have seats on the govern-ing body. They examine all proposals for work in connection with the scientific objects of the association and report as to their importance and feasibility. The members of this board are appointed for one year, but are eligible board are appointed for one year, but are engine for re-election, and they have power to add to their number. The present members are the Director-General, Indian Medical Service, the Sanitary Commissioner with the Government of India, the Director of the Central Research Institute at Kasauli, the Officer in charge of the Institute at Alsaul, the Uniter in charge of the Central Malarial Bureau and the Assistant Director-General, Indian Medical Service (Sanitary). Sir Ronald Ross has been elected an honorary consulting member. The membership of the Indian Research Fund Association of the Indian Research Fund Association. is open to non-officials. Every donor of Rs. 5,000 is entitled to become a permanent member, while every subscriber of Rs. 100 per annum can be a temporary member. Members of the association are entitled to attend and take part in the annual general meeting of the association and to receive copies of the reports and other publications issued from time to time by the association. Although, so far, the fund has

been financed solely by the Government of India, it is hoped that in time Indian philanthropists will contribute towards the expansion of the association by founding chairs of research by financing experimental research measures and otherwise.

Work of the Association.—The association has been active and can already point to some achievement. Out of an income of Rs. 15 lakhs (£100,000) received since its incorporation and up to the end of 1913-14, an expenditure of over Rs. 14 lakhs (£93,333) has been sanctioned. In 1911, Major S. P. James, I.M.S., was deputed to study yellow fever in its endemic area and to draw up proposals for protecting India against the introduction of the disease. Those proposals are still under consideration. In the meanwhile, stegomyia surveys have been carried out in Calcutta, Bombay, Madras, Karachl and Rangoon and other scaports. Anti-malaria schemes based on preliminary surveys have been carried out at a cost of Rs. 6,02,000 (£40,133). Investigations are at present in progress into the problems connected with the prevalence of cholera, kala-azar, dysentery, leprosy and goitre, as well as inquiries into the pharmacology of cinchona derivatives, the use of hydrocyanic acid gas as a pulicide and the fixation of chemical standards of purity for milk and milk products. Other investigations are under consideration regarding bacteriological standards of purity for water supplies, the different anti-cholera vaccines and sera, the methods of water filtration and silt removal best suited to Indian conditions, and the etiology of diabetes and the fevers of short duration. These will be started so soon as more trained research workers are available. It is hoped also to carry out, during the next non-epidemic season, an experiment in plague prevention on a large scale.

Besides financing the investigations conducted by its own staff, the association gives grants-in-aid to outside research on approved lines. The co-operation of other workers has been sought, and every encouragement has been given to them. Grants for research have been made, for instance, to Professor MacMahon, Dr. Hossack and Mr. Howlett. The services of Indians have also been enlisted. Dr. Korke is engaged in an important investigation into kala-azar, while Mr. Awatl, a medical entomologist, is employed under the association. The Government of India cordially approve the policy of encouraging private enterprise in the cause of research.

The association has also started a journal for the publication of medical research work done in India—the "INDIAN JOURNAL OF MEDICAL RESEARCH"—published quarterly. The favourable reception which has been accorded to the first three numbers is evidence of the increased interest that is being taken in sanitary science in India to-day.

The investigations enumerated above represent the work directly under the supervision of the Government of India. The local Governments also are fully alive to the Importance of research, and in seven provinces nine special officers are at present engaged in investigating the cause underlying the local prevalence of malaria and devising suitable schemes for the mitigation of that disease.

Water Supply.—Few subjects have received more attention of late than the provision of a piped supply of filtered water in towns. Complete figures are not available but sums amounting to at least Rs. 3,51,58,297 (£2,348,886) have been spent during the last 20 years on completed schemes. Projects costing Rs. 1,10,03,433 (£933,562) are under construction and projects costing Rs. 1,14,44,750 (£762,983) have been prepared and sanctioned. These figures are exclusive of the expenditure in the Presidency fowns and Rangoon.

Drainage,—Drainage schemes on modern lines, are the basis of all sanitary improvement in urban areas. The demand for them is scarcely less than that for piped water and is steadily on the increase. As in the case of water supply complete figures are not available but he known expenditure during the last twenty years has been considerable and is now rapidly increasing. The expenditure on completed works outside the Presidency towns and Rangoon during that period amounted to Rs. 97,65,049 (£651,003), whereas the cost of the works under construction is estimated at Rs. 1,54,20,502 (£1,028,033). In the beginning precedence over drainage was given to plped water-supply but experience has demonstrated the advantage of introducing both concurrently. Without drainage there is no means of carrying off the surplus water and without plped water-supply its difficult to flush the drains properly.

When drainage schemes on modern lines were first started in this country, there seems to have been a bias against the use of sewers, and, wherever possible, open drains were adopted. Experience has shown that the preference for the open drain and the fear that sewers would give excessive trouble were not well founded. On the contrary, much of the advantage of a drainage system is lost if only open drains are used, as the old system of hand-carriage latrines has to be continued. Moreover, economy in establishment is possible only in the case of a sewage system.

Pilgrimages.—Pilgrimages necessitating as they do the collection of large numbers of persons, often more than a million, at one place at one time have an important sanitary aspect mainly in connection with cholcra and other communicable diseases. The Government of India recently decided to examine the sanitary arrangements at the chief places of pilgrimage throughout India and local Governments were asked to appoint provincial committees for this purpose under the presidency of the Sanitary Commissioner with the Government of India with a view to formulate practical schemes of improvement. The inquiry is still in progress but the Government of India with a view to formulate practical schemes of improvement. The inquiry is still in progress but the Government of India have already made a grant of Rs. 21 khs. (£13,333) and promised an additional grant of 4 lakhs of rupees (£28,666) spread over four years towards the improvement of the pilgrim route to Badrinath; and they have made a further recurring grant of Rs. 20,000 (£1,333) a year for the same object. The important question of improving the conditions of the pilgrimage to the Hedjaz by Indian Musulmans is undergoing close scrutiny. The Governor-General in Council anticipates that these inquiries will lead to signal sanitary improvements

and promote the convenience and comfort of many millions of His Majesty's loyal Indian subjects.

Rural Sanitation.—The following observations are based on practical experience of rural sanitation:—

- (a) Travelling dispensaries may be used to spread a knowledge of the simple facts regarding the more common diseases. For this purpose the subassistant surgeons in charge should be given a special training in hygiene. Once they become known to the people as healers of the sick their advice as sanitarians may become more acceptable.
- (b) The improvement of the village water-supply is as important as it is difficult. Apparently, excellent results have been obtained by disinfection of wells with permangante of potash. Experiments are being made in different parts of India in the use of tube-wells, etc. It might serve as an useful object lesson to use pumps and tube-wells for the provision of water at fairs, schools, hospitals, and local public offices. In some localities, a tank supply alone is possible and the difficulty is to protect even new tanks from poliution.
- (c) In several provinces notably in Madras, village unions, or circles have been formed and their committees entrusted with small grants for the improvement of the sanitation of the village site. This measure might be extended experimentally elsewhere. It is catellated to encourage discussion and inquiry regarding sanitary work.
- (d) Village midwives are, in some districts, encouraged by small grants of money and rewards to attend at the headquarters hospital for a short and simple course of training. These measures open up possibilities with reference to a reduction in infantile mortality and children's diseases generally.
- (e) In most districts in India, the civil surgeon is also in theory the sanitary officer of the district. His duties at head-quarters, however, do not allow him to tour and inspect in the district to the extent that is necessary; even in the case of epidemics in the district it is sometimes not possible for him to leave headquarters. In some provinces, district sanitary officers have been appointed and there can be little doubt that many more such appointments are required and that one of the most urgent and hopeful measures for promoting rural sanitation is the appointment of well qualified and whole-time district health officers to control and organise all sanitary arrangements and experiments in the

Birth and Death Rates.—The population of the areas in which births and deaths were registered was 238,661,346, according to the census of 1911, and the number of births registered in 1912 was 9,295,296 (=38.95 per mille, compared with 38.58 per mille in 1911, and an average of 38.04 per mille in the five years 1907-11). The total number of deaths was 7,090,991=29,71 per mille, as compared with 32 per mille in 1911 and 34.28 for the five years 1907-11. This was the lowest rate since 1901. The rates for the provinces are given in the following table:—

	Birth 1	Rates.	Death Rates.						
	1911.	1912.	1911.				1912.		
	1511.	1012.	Rurai.	Urban.	Total.	Rural.	Urban.	Total.	
Bengal. Bihar and Orissa Assam United Provinces Punjab N. W. Frontier Provinces. Central Provinces and Berar. Lower Burma Upper Burma Madras Rombay Minor Areas	35.0 42.9 32.0 43.8 43.9 35.1 49.5 31.4 34.8 30.4 36.0 40.6	35.3 42.5 32.2 45.4 45.3 37.1 48.2 31.7 33.0 30.9 35.0 43.8	44.2 33.4 23.1 33.7 22.2 24.9 22.4 27.0	56.0 39.7 25.0 44.9 36.4 50.2 28.2 36.9	26.9 35.1 23.6 45.0 34.0 23.3 34.7 24.0 27.1 23.1 28.3 41.2	30.1 31.0 25.0 29.6 26.1 23.5 41.8 24.4 27.5 23.8 33.8	24.5 30.0 20.8 34.4 31.9 22.7 47.6 37.2 44.0 28.6 41.5	29.8 31.0 25.0 29.9 26.6 23.4 42.3 26.0 29.0 24.3 34.9 38.3	
Total	38.6	38.95	31.6	36.2	32.0	29.4	33.1	29.7	

The most striking feature was the increased birth-rate and diminished death-rate in the United Provinces and the Punjab due to comparative freedom from malaria and plague, and to recuperation from the epidemics of previous years. In the Central Provinces, on the other hand, cholera and malaria prevailed, and the birth-rate (though still the highest of any province) diminished and the death-rate increased. Cholera in Bombay and malaria in Burma produced similar results.

The excess of births over deaths ranged from 19 per mille in the Punjab to .1 per mille in Bombay. The mean percentage of male to female births ranged from 123 in the North-West Frontier Province to 104 in Bihar and Orissa.

Name of Town.					Year.	Population.	Birth-rate.	Death-rate
Ahmedabad Aliahabad Bangalore Bombay Calcutta Cawnpore Delhi Karachi Labore Lucknow Madras Nagpur Rangoon				::	1918-14 1913-14 1913-14 1913 1912 1913-14 1913-14 1912-1913-14 1912-1913-14 1913-1913 1913	225,539 159,701 100,834 979,445 886,067 173,973 224,051 148,394 210,271 240,016 518,660 107,444 293,316	33.04 25.2 46.60 20.05 21.06 39.06 41.94 39.1 36.73 38.8 47.5 18.87	38.18 17.8 36.83 32.47 28.1 52.76 43.63 42.06 29.17 44.49 38.8 38.1 30.37 12.3

18,934 36.007

Chief Diseases.—There are three main classes of fatal disease: specific fevers, diseases affecting the abdominal organs, and lung diseases. Intestinal and skin parasites, ulcers and other indications of scurry widely prevail. Much of the sickness and mortality is due to deflicint power of resistance and to insanitary habits and surroundings. The table below shows the number or deaths from each of the principal diseases recorded in Britial fudia and the death-rates per 1,000. during the three years from 1910 to 1912. With regard to special diseases, no province escaped

Years.			Cholera.	Sinall-pox.	Fevers.	Dysentery and Diarrhoca.	Plague.	Respira- tory Diseases.	
1910			{	430,451 1.90					234,308 I.03
1911			}	354,005 1.48	58,535 0.25	4,207,356 17.63	253,636 1.06	733,582 3.07	223,825 0.94
1912	٠٠.		{	407,769 1.71		3,936,085 16.49		203,037 1.10	247,736 1.04

the visitation of Chelera, which was chiefly prevalent in Bombay and the Central Provinces, Small-pox showed an increase. When reference is made to "fever" in India, malarial fever is generally understood, but many causes of death and nany diseases much more fatal than malarial fever are included under the heading. The fever death-rates as usual varied greatly ranging from 21.2 in Bengal to 7.6 in Madras.

Plague.—The present epidemic of plague in India first broke out at Hombay in August 1806, and as the annexed table shows, it has been responsible for a heavy rate of mortality since that date. In 1907 the deaths from plague attained the highest total yet recorded, \$\vec{v}_{i}\$, 1,315,892 for India as a whole, the number in British India alone being 1,166,223 or 5.16 per nille. In 1908 the mortality declined enormously, falling to 150,480, the lowest total since 1900. In 1000 there was once more a relatively low mortality, *\vec{v}_{i}\$, 178,808 deaths or fewer than in any since 1900, excepting 1908. In 1910 and 1911 there was a severe recrudescence, especially in Bengal, the United Provinces, and the Punjab. In the latter part of 1911 and in 1912 the end of that year and in the early months of 1914 there has been a rise owing to a recrudescence of the epidemic abated, and the 1913 figures show a still further fall. Towards the end of that year and in the early months of 1914 there has been a rise owing to a recrudescence of the disease in Bombay.

1896-97					57,543	1906					356,721
1898					116.285	1907					1 315,892
1899	::	• • •	::		139,009	1908	••	• •	••	• •	150,480
1900					92,807	1909					178,808
1901					282,027	1910					512,605
1902	::	• • •	::	::	576,365	1911					846,873
****					883.076	1912					306,488
1903	• •	• •		• • •			• •	• •	• •	• •	217.145
1904					1,143,993	1913		٠		• •	211,140
1005					1.069.140	* Preli	minary	r figure	**		

Hospitals, Dispensaries, Asylums.—The following table gives figures for Indian hospitalunder three heads. The institutions grouped under Heads (1) and (3) are, generally speaking, for the general public. Those under Head (2) are for special classes of persons, such as rallway servants, policemen, &c.:—

	(1) Civil Hospitals and Dispensaries (State Public, Local Fund and Private-aided).			State S	(2) special und Hospitals,		(3) Private Non-aided Institu- tions.			
	No. of Institu- tions.	No of In- patients.	No. of Out- patients.	No. of Institu- tions.	No. of In- patients.	No. of Out- patients.	No. of Institu- tions.	No. of in- patients.	No. of Out- patients.	
1911 . 1912 .	2,707	1 ' 1	, .	1		2,030,098 2,154,284		1 1	4,712,616 4,774,387	

The demand for more hospitals under head (1) is everywhere making itself felt. The travelling dispensary system which has been so successful in the United Provinces and the Punjab is being introduced elsewhere as well. The number of persons treated has risen in spite of the healthiness of the year to 294 millions; and operations are being more freely resorted to than ever. Expenditure on this bead rose from £863,168 in 1911 to £904,449; and there is little reason to believe that further economies will reduce this amount. Again the year 1912 the assistance afforded by individual subscriptions by Indians shows a tendency to diminution,—the amount subscribed in 1912 being only £45,557, as compared with £47,252 in 1911.

There were 22 Lunatic Asylums in India in 1912 containing 8,050 inmates, of whom 2,174 were criminal lunatics. There can be little doubt that the cases admitted into asylums in India represent only a very small proportion of the insane population. The ratio of Christians, mainly drawn from the Indians and Eurasians of Bombay and Madras is generally high in regard to the total population. The explanation of this is to be found in the fact that the insane amongst Christians are usually removed to an asylum on the outbreak of an attack of insanity. But this is not the case with Mahomedan and Hindus; many harmless lunatics of the Hindu religion remain at large and are not brought to the asylums. The prevailing forms of insanity are mania, melancholia, dementia epileptic insanity, and idiocy. A number of cases are attributed to the use of hemp drugs.

Vaccinations in British India are performed by the agency of a special department established for the purpose and to a small extent by the staff attached to the ordinary hospitals and dispensaries. The work is carried on as a branch of the Sanitary Department in each province under the general control of the provincial Sanitary Commissioner. The total vaccination work done in British India during the year 1012-13 was represented by 9,919,723 operations, of which 8,792,017 were primary cases and 1,126,806 re-vaccinations: the corresponding figures for the year 1011-12 were 9,684,249, 8,780,525 and 903,724 respectively. Increases occurred in all the provinces and the small provinces of Coorg and Ajmer-Merwara. In regard to primary cases there was a decrease, compared with the preceding year, in Bengal, the Central Provinces, Burma and Ajmer-Merwara and in regard to primary cases.

ations Madras, the Central Provinces, Coorg and Ajmer-Merwara showed decreases. The only provinces in which there was a decrease under both classes of work were the Central Provinces (due in part to the elimination of the statistics relating to Feudatory States, and in Ajmer-Merwara.

The quality of the primary work showed an improvement on that of the preceding year, the percentage of success rising to 96:54 from 96,34, but in revaccinations the rate declined to 70:57 from 72.82. In the former the rates varied between 99,59 per cent. in Bihar and Orissa and 88.4 in Madras, and in the latter between 93.17 in Ajmer-Merwara and 53:19 in Bombay—all the rates are higher than in 1911-12. The mean number of operation performed by each vaccinator was 1,630, to which it rose from 1,584 in 1911-12: the range between the highest and lowest was very considerable, 3,908, the highest, in the North-West Frontier Province and 911 the lowest in Ajmer-Morwara; the next lowest was 964 in Assam.

The vaccination operations performed at dispensaries numbered 187,450 compared with 149,629 the year before, but except in Bengal, and Bihar and Orissa, which between them account for 153,306 of the total, and the Punjab and Burna which jointly contribute 21,308 operations, the vaccination work at dispensaries is inconsiderable.

The ratio of successful vaccinations per thousand of the population was 36 49in1912-13, which lies between the ratios of 35.06 in 1910-11 and 37.22 in 1911-12. Neglecting the small province of Coorg with the high ratio of 64.66 per thousand, the extremes were 49.11 in the North-West Frontier Province the highest, and neglecting the small province of Ajmer-Merwara 25.94, 29.06 in Bombay, the lowest. On an estimated birth-rate of 40 per thousand of the population, 46·19 per cent. of the children under one year of age were successfully vaccinated, showing a decrease compared with the rate of 48.01, in the preceding year. The usual great variations occurred, the highest rates being 71.02 in the Central Provinces and 68·06 in the Punjab, and the lowest 20.10 in Burma and 8.82 in Coorg.

respectively. Increases occurred in all the provinces, except Madras, the Central Provinces and the small provinces of Coorg and Ajmer-Merwara. In regard to primary cases there was a decrease, compared with the preceding year, in Bengal, the Central Provinces, Burma and Ajmer-Merwara and in revaccin-

Calcutta Improvement Trust.

The Calcutta Improvement Trust was insti- It was seen that strips of land lying along or tuted by Government in January, 1912, the in the neighbourhood of these roads should be preamble of the Act by which it is founded running as follows:—"Whereas it is expe-dient to make provision for the improvement and expansion of Calcutta by opening up congested areas, laying out or altering streets, providing open spaces for purposes of venti-lation or recreation, demolishing or constructing buildings, acquiring land for the said pur-poses and for the re-housing of persons of the poorer and working classes displaced by the sanitary requirements.

The origin of the Calcutta Improvement Trust must, as in the case of the corresponding Bombay body, upon which the Calcutta Trust was to a large extent modelled, be looked for in the medical enquiry which was instituted into the sanitary condition of the town in 1896, owing to the outbreak of plague. In 1896, owing to the outbreak of plague. In consequence of the facts then brought to light, a Building Commission was appointed in April 1897, to consider what amendments were required in the law relating to buildings and streets in Calcutta. That Commission recomstreets in Calcutta. That Commission recommended certain alterations in the law, and further suggested that a scheme should be prepared for laying out those portions of the town which were sparsely covered with masonry. While unable to go into details, they recommended that in quarters newly laid out the roads and open spaces should occupy at least as much ground as the building areas. As regards existing evils, they thought that it was impossible to demolish any considerable portions of the City. All that could be done was to open out a number of wide streets and some open spaces. The Government of Bengal, when it proposed to give effect to the recommendations of the Commission, adopted, as the work to be done, a scheme for constructing and improving 15½ miles of roads which had been drawn up by the Commission. This scheme formed the basis of discussion till 1904, when a Conference was convened by Sir Andrew Fraser, then Lieutenant-Governor of Bengal. It was estimated that the Trust might in the are was esumated that the Trust might in the ensuing 30 years have to provide for the housing of 225,000 persons, who would occupy 2,000 acres. The population of Calcutta proper, which includes all the most crowded areas, was 649,995 in 1891, and increased to 801,251, or by 25 per cent, by 1901. The corresponding figure according to the 1911 Census was 896.067.

The Conference of 1904 recognised that in view of the peculiar situation of Calcutta, which is shut in on one side by the Hooghly and on the other by the Salt Lakes, its extension in a regular zone is impossible. he Conderence, after carefully considering the ques-tion, came to the conclusion that "arms" or "promontories" should be thrown out in five directions: on the north, north-east, east, south and south-east, and south-west. In these promontories it was easy to foresee that expansion would take place along the lires indicated by certain roads. It is for this reason that the Government of Bengal made the proposal that the Trust should have power whole time chairman of the trustees and the whole time chairman of the trustees and the to project roads to the outskirts of Calcutta. membership of the Trust was fixed at eleven,

In the neighbourhood of these roads should be acquired by or for the Trust and would be dealt with by them as model areas. In the remaining part of the extension, according to the Government's plan, the Trust would have no proprietary rights over the land, but they would administer the building regulations and by this means would secure that all houses erected by private owners were constructed on a standard plan and in conformity with

Legislation.

The recommendations of the 1904 Conference eventually took legislative form in a Bill introduced in the Bengal Legislative Council in August, 1910. This measure was built up on the recognition by the Government that the 15 miles road scheme only touched the fringe of the question of overcrowding and sanita-tion. The Bill, therefore, provided for a scheme of greatly enlarged scope. The amount of money required was roughly estimated at Rs 8,22,00,000. It was recognised that a great deal more could be spent with advantage, and the figure was not put forward as representing the actual cost of any definite scheme, but as a rough estimate of what would be required for any scheme of wide and permanent utility. The total sum was divided into Rs. 500 lakhs for new roads, Rs. 172 lakhs for open spaces and Rs. 150 lakhs for housing and ex-pansion. Of these sums Rs. 336 lakhs were to be recovered by recoupment, 50 lakhs were granted from Imperial revenues, and the remainder was left to be raised by loans. The sanction of the Secretary of State was obtained for the proposals generally on the understandfor the proposals generally on the understand-ing that the scheme of taxation would be for 60 years. The Legislative enactment, while based on these calculations, does not actually refer to any limit of expenditure. But the Act provides a special system of taxation for the service of the loans, amounting to Rs. 436 lakhs, involved in the scheme. For this service an arnual revenue of 19.65 lakhs was required and to this have to be added 1.25 lakhs for working expenses and contingencies, bringing the total up to 20°90 lakhs. To provide this revenue the Act provides for the levy of special taxes as follows:

- A two per cent. stamp duty on the value of all immoveable property transferred by sale, gift or reversion of mortgage;
- A terminal tax of one anna on every passenger by rail or steamer arriving in the city of Calcutta; this is not to be levied on pas-sengers from within a radius of 30 miles of Calcutta:
- A customs and excise duty, not exceeding two annas per bale of 400 lbs., on raw jute; A two per cent. consolidated Corporation rate; and
- An annual Government grant of a lakh and

part of the members being nominated by Government and others elected by local bodies whose interests are most nearly concerned.

The following are the present Board of Trustees:—The Hon'ble Mr. C. H. Bompas, 1.c.S., Chairman; The Hon'ble Mr. C. F. Payne, 1.c.S., Chairman of the Calcutta Municipal Corporation (ex-officio); The Hon'ble Raja Reshee Case Law, C.I.E., clected by the Corporation; The Hon'ble Raja Radan Charan Pal, Bahadur, elected by the Ward Commissioners Dr. Charles Banks, elected by the Commissioners appointed under Sec. 8 (2) of the Calcutta Municipal Act, 1899; Mr. W. K. Dods, elected by the Bengal Chamber of Commerce; The Hon'ble Rai Sitanath Rai Bahadur, elected by the Bengal National Chamber of Commerce; Sir R. N. Mookerjee, K.C.I.E.; Mr. F. H. Stewart, C.I.E.; the Hon. Mr. H. J. Hillary and Mr. R. M. W. Smyth, appointed by the Bengal Government.

The Board and their Work.

It was impossible to settle in advance the exact projects to be undertaken by the Trust. All details of these were, therefore, left to be worked out by the Trust after its constitution, Government exercising control by having all the individual schemes sent to them for approval before execution. The Trust did not enter on a virgin field. The Municipal Corporation had previously dealt in some measure with the problems they were appointed to solve and the Trust started work with the initial benefit of this previous labour. Thus, the Corporation had aligned many roads and this work was useful to the Trust, though in some cases modifications were necessary.

The work upon which the Trust are now definitely embarked may be divided into three classes as follows:—

Many parts of Calcutta are over-crowded with buildings and ill-provided with roads. These areas are to be re-arranged both on the ground of sanitation and for convenience of traffic;

Population will continue to throng into the over-crowded parts unless it can live on the outskirts and at the same time have speedy access to the business centres of the town. Quick traffic can only take place along broad roads. These are almost wanting in Calcutta. The construction of broad roads will at the same time ventilate the overcrowded parts of the town and it has been recognised from the outset that the construction of broad roads running both north and south and east and west will thus secure a double object;

There is the question of providing for the population displaced by improvements, and still more important of providing for the natural growth of population by laying-out roads and building sites on sparsely populated areas on the outskirts of the town. When persons of the working class are displaced or likely to be displaced the Trust can build dwellings for them if private enterprise does not undertake the work.

Engineer's Survey.

The Trust perceived at once that the problem of providing improved traffic facilities for Calcutta and its suburbs must be dealt with as a single problem and by a single mind. The first duty set by the Trust to their chief engineer was, therefore, to prepare a scheme of main roads of primary importance. The chief engineer Mr. E. P. Richards, M.I.O.E., &c., devoted his whole attention to this task and his report was issued early in 1914. Mr. Richards' report, which was accompanied by maps and numerous photographic illustra-tions, made a volume of 400 closely printed foolscap pages. He found Calcutta "a city which is in a very much more than ordinary bad way" and early discovered the serious fact that "the Calcutta Improvement Act of 1911 was almost useless for the great task set to the Trust". The Trus; was not constituted under a Town Planning Act but only under a local Housing Act, so that "Calcutta and her suburbs cannot possibly be jointly planned or controlled, or be moderately improved, under the existing Improvement Act."

Mr. Richards' report deals with the genera conditions and needs of the city and the general policy of reform, with the general legislative and financial aspects and with the main programme of work. He discusses the Calcutta of to-day, showing the chief faults as to which improvements are required. A comparison is made between Calcutta and other cities, by way of illustrating Calcutta needs, and in this way or illustrating calcutta needs, and in this manner finance, roads and streets per square mile, road and street widths, percentage of open spaces, tramway mileage per head of population, the status of the city as a port, and so on, are fully dealt with. An important chapter deals with the Calcutta slums and makes recommendations as to what should be done in regards to them. Another chapter discusses the general problem of city improvement and another is devoted to suburban planning and developments.

Improvement Schemes.

The Engineer submitted early last year an interesting report on the widening of Howain Bridge. Meanwhile, the Board undertook certain improvement schemes which would not be interfered with by any larger schemes adopted later. The Board also embarked on a re-housing scheme with a view to provide accommodation for persons likely to be displaced by the improved schemes under preparation. The buildings designed resemble those erected by the Bombay amprovement Trust. The scheme was sanctioned by Government in August, 1912, but its execution has proved more expensive than was anticipated, mainly owing to the rise in the price of building materials. The following paragraph from the Calcutta Improvement Trust first annual report shows the standard according to which they regard their re-housing plans:

"The housing problem in Calcutta is of supreme importance; the figures of the last census show that much of the improvement in the health of Calcutta is only apparent; the sanitary measures of the Corporation result in the removal of bustees and the popu-

lation which occupied the bustees does not fore, be a loss on the Calcutta experiment, as find healthier accommodation in the same locality but moves on to even more insanitary bustees in the suburban wards or in the ad-jacent suburban municipalities. The Board do not anticipate, nor do they desire, that the do not anticipate, nor do they desire, that the chawl should become the usual dwelling for the poor of Calcutta, but it may be suitable to some classes of its heterogeneous population, and especially to those who come here for work, leaving their families behind. It is very difficult to see what other class of building can be erected by the capitalist where land costs more than Rs. 600 a cottah. On really cheap land it is possible that good results could be obtained by arranging for the con-struction of sanitary bustees, the Board merely laying out and draining the site and controlling the class of hut erected." The Board under-took the erection of three blocks of buildings as an experiment. The cost of the land worked out at Rs. 832 a cottah. It is recognized in England that the working classes cannot profitably be housed on land costing more than £300 an popular, it will doubtless be possible to raise the acre, or Rs. 75 a cottah. There will, there-

was anticipated by the Board from the outset.
'It appears, therefore," say the Trustees in their last annual report, "that the buildings would show a fair return of capital if the rooms in the two upper storeys were let out at Rs. 6 a month, those on the ground floor at Rs. 5 a month and the shops at Rs. 10.

The Board believed the buildings to be much cheaper than anything of the kind hitherto erected in Calcutta, and applications received show that "there would apparently be no difficulty in filling a building with tenants of the Bengali middle class, if the whole building or the two upper stores of each block were exclusively reserved for their use. "The Board, however, consider that it is most important to ascertain what rent can be paid and what accommodation is required by the artisan and labouring classes. They have, therefore, decided to let the rooms at lower rates to artisans and labourers and if the buildings once become

BOMBAY IMPROVEMENT TRUST.

Bombay is an island twelve miles long, but man and members of the Trust are as very narrow and containing only 22 square miles | follow :very narrow and containing only 22 square miles altogether, but in the city, occupying little more than half the island, there lives a population enumerated at 972,892 and actually totalling over a million. Bombay is, in point of population, the second city of the British or care at the million and the second city of the British or the Saventre's per care of the million. empire. Seventy-six per cent. of its million people live in one roomed tenements. Imagine the terrible conditions of overcrowding and lack of sanitation which these facts imply and you have the reason why the severe onset of plague seventeen years ago led to the formation to the Improvement Trust, for the special purpose of ameliorating the sanitary condition of the city. Plague was imported into India or the city. Flague was in ported into Hotal from the Far East and was first discovered in Bombay in 1896. There was a great panic among the population. Every bouse had its victims, most persons attacked died. There was a general flight of the population to the country districts. It is estimated that nearly half a million so fied. Grass grew in the principal structs. These alternatives distanced the half a million so fee. Grass grew in the principal streets. These circumstances directed the attention of the authorities, as nothing else could have done, to the problem of bringing the development and housing arrangements of the city into line with modern requirements. It was at once recognised that the task was too great for the Municipality, and a special body, termed the Trustees for the Improvement of the City of Bombay, was appointed. It consists of 14 members, of whom four are elected by the Municipality and one each by the Chamber of Commerce, the Millowners' Association and the Port Trust, and the balance nominated by Government, or sit exofficio as officers of Government. The Board is presided over by a whole-time chairman, who is either a covenanted civilian or an officer of the Public Works Department, and he is also head of the executive. The present chair- lings for the poor.

Chairman-

Mr. G. W. Hatch, 1,0.8.

Ex-officio Trustees-

Major-General G. F. Gorringe, C.M.G., C.B., D.S.O., General Officer Command-ing Bombay District.

Mr. A. H. A. Simcox, 1.c.s., J.P., Collector of Bombay.

Mr. P. R. Cadell, C.I.E., I.C.S., J.P., Municipal Commissioner.

Elected by the Corporation-

Sir Bhalchandra Krishna Bhatawadekar, Kt., L.M., J.P.

Mr. Dinsha Edulji Wacha, J.P.

The Hon'ble Sir Ibrahim Rahimtoola, Kt., C.I.E., J.P.

Mr. Nowroji Jehangir Gamudia, J.P.

Elected by the Chamber of Commerce-Major H. A. L. Hepper, R.E., J.P.

Elected by the Port Trustees— The Hon'ble Mr. F. L. Sprott, J.P.

Elected by the Millowners' Association-Bir Sassoon David, Bart., J.P.

Nominated by Government-

Sir Vithaldas D. Thackersey, Kt., J.P.

Mr. A. M. Tod, J.P.

Mr. A. H. Whyte, J.P., Executive Engineer, Presidency.

The specific duties of the Trust are to construct new streets, open out crowded localities, reclaim lands from the sea to provide room for expansion, and construct sanitary dwel-

The Sanitary Problem.

Bombay city grew on haphazard lines, houses being added as population poured in with the growth of trade and without any regard to town planning or the sanitary requirements of a great town. The price of land was always comparatively high, owing to the small area of the island, and while the builder had only one object in view, namely the collect as many rent naving tanants as to collect as many rent paying tenants as possible on the smallest possible piece of land, there were no proper restraints to compel him to observe the most ordinary rules of hygiene. The result was the erection of great houses, sometimes five and six storeys high, constituting mer nests of rooms. There was no adequate restriction as to the height of these accquate restriction as to the height of these chawls, or the provision of surrounding open space, so that the elementary rules as to the admission of light and air went unobserved and the house builder invariable erected a building extending right up to the margins of the consequently great houses. of his site. Consequently, great houses ac-commodating from a few hundred to as many as four thousand tenants were built with no more than two or three feet between any two of them and with hundreds of rooms having no

opening at all into the outer air.

The Trust has practically reconstructed large areas on modern sanitary lines, but unfortunately the old municipal by-laws remain quite inadequate for the requirements of the city and while the Trust are spending millions sterling of public money in sweeping away abuses, unscrupulous landlords are still unchecked in adding in the same old manner to the insanitary conditions of the place. Thus, the Trust acquire and destroy insanitary houses on a certain area and lease the sites and permit new houses to be built on them subject to the new noness to be built on them subject to the reservation of a certain breadth of open ground round the edges of the site to provide for the necessary angle of light and air for the lower rooms of the new building. But bordering on this area there will be old houses that were not acquired as part of the improvement scheme and the municipal by-laws allow the owners of these takes the state of these takes and the second of these to increase their height by as many of these to increase their height by as many storeys as they like, without regard to the fact that they are thus undoing the very work of providing for the admission of light and air upon which the Trust have just poured out money. The private landlords take the fullest advantage of the loophole. The amendment of the Municipal by-laws so as to cure such abuses has been under discussion by the Municipal Cornoration for many years and the storey and the such as the such a Municipal Corporation for many years and improved by-laws have been prepared.

Finance.

The work with which the Trust was charged was bound to prove unremunerative, with the exception of reclamations from the sea, and at the outset, therefore, certain Government and Municipal lands were vested in the Trust, the usufruct of which it enjoys, and the Trust at the outset received a contribution from at the outset received a constitution from nunicipal revenues not exceeding 2 per cent, on the rateable value of the property assessed for taxation. In practice, the works are financed out of 4 per cent, loans, which are guaranteed by the Municipality and the fover-

to meet interest and sinking fund charges. to meet interest and sinking fund charges. The Trust, proceeding or these lines, found itself, in 1910, at the end of its resources. When the Trust was constituted it was estimated that the usufruct on the public land vested in it would represent a contribution of Rs. 96,00,000 (£640,000) from the general taxpayer. But in practice this was reduced to less than Rs. 43,000,000 (£286,666). The Trust found itself with unpledged resources estimated at only Rs. 16,00,000 (£106,666). The Government of India came to its assistance with a cash grant of half a crore of runees. with a cash grant of half a crore of rupes (£338,000), given out of a budget surplus, special legislation was carried through the Bombay Legislative Council in 1913 to increase Bombay Legislative Council in 1913 to increase the advantage of the Trust from Provinciand Municipal appropriations, and legislative measures are now in progress to enable the Trust to raise money by special local taxation in Bombay. The cautious estimate of Rs. 16,00,000 also proved to have been below the mark. In the years following 1910, when the estimate was made, there was an improvement in the Trust's revenue, so that in 1912 offer in the Trust's revenue, so that in 1913, after the amendment of the financial classes of the Act and the grant of 50 lakhs by the Government of India, and in spite of important additions to the Trust's sanctioned programme, the financial forecast showed that the margin for expansion had increased to Rs. 95 lakhs. Inasmuch as the whole of this sum was required for much as the whole or this sum was required for completion of the Eastern Avenue, it was still necessary that the Trust should be provided with further funds for direct expenditure on improvement schemes. To this end a Bill was introduced into the Bombay Legislative County of the Co introduced into the Bombay Legislative Coun-cil on 18th December, 1913, providing for the levy of a surtax in stamp duty on conveyances of property in Bombay and for the payment of the nett proceeds to the Trust. The Muni-cipal Corporation, however, protested against the raising of the necessary funds at the expense of the property owners of Bombay and sugges-ted, as they and the Trust had already sugges-ted in 1911, that an export duty on bales of cotton exported from Bombay should be levied instead, Government announced at the March instead. Government announced at the March (1914) meeting of the Legislative Council that the Bill would be held over pending consideration of this suggestion.

The following are some details of the Bill to amend the City of Bombay Improvement Act, which, as just mentioned, was passed by the Provincial Legislature. The main object of the Bill was to simplify the financial arrangements between the Government the Municipal ments between the Government, the Municipality and the Trust and make them more favourable to both the local bodies. Under the old Act, as already mentioned, the annual Municipal contribution to the Trust was an indefinite sum limited by a maximum of 2 per cent, on the Municipal assessments of the year. Under the Amended Act the Municipal contribution is a definite share of the year's general tax receipts, approximating to 2 per cent. general tax reccipts, approximating to 2 per centrol assessments and subject to no maximum, and the Trust keep their profits for their own use. Under the original Act, the Trust had from 1909 onwards to pay to Government and the Municipality 3 per cent. per annum as interest on the schedule value of the Government and Municipal lands vested in them, while Government and the Municipality were ment, and the revenue of the Trust is used while Government and the Municipality were

at liberty to resume any unleased, vested lands for public purposes without paying compensation, except in respect of capital spent by the Trust in improving them. Under Market, the northermost limit of the modern lands for public purposes without paying compensation, except in respect of capital spent by the Trust in improving them. Under the amended Act the Trust have no interest to pay, and Government and the Municipality must, on resuming vested lands, pay the Trust their full market value. There are other mo-diffications of the old arrangements, similarly making for the financial benefit of the Trust. The new Act makes the Municipality the reversioners of the Trust's assets and liabilities. Apart from finance, the new Act contains important new sections under which the Trust are empowered to co-operate with employers of labour for the housing of the working classes of labour for the housing of the working classes by constructing chawls for their employés and leasing them to the employers at a rent calculated so as to yield to the Trust in the course of the 33 years of the lease the capital sum spent in the scheme, plus 4 per cent. interest, the chawls then becoming the property of the employers. The Trust are now co-operating with several millowners in schemes under these sections.

Plan of operations.

The work of the Trust, so far as it has gone or is planned, can be divided into two parts. The first concerned the immediate alleviation of the worst burdens of insanitation and the second consists of opening up new residential areas. The Trust began by attacking the most insanitary areas. Two broad roads, running due east and west, were cut through the worst parts of the city, sweeping away a mass of insanitary property and admitting the healthy westerly breezes to the most crowded parts of it. These thoroughfares are known as Sandhurst-road and Princess-street. They are as yet hardly completed, but the greater parts of them are already settled under the new conditions, with sites on both sides of them disposed of on long leases and many new buildings built and occupied. Meanwhile, large areas of good building land, lying idle for want of development works, have been developed and brought on the market, sold at remunerative rates and largely built upon. An instance of this development is upon. An instance of this development is the Chaupati estate, the land overhung by Malabar Hill, between it and the native city. This was cut up with fine new roads and is now nearly covered with modern suburban dwellings. Two of the most insanitary quarters in the midst of the city have been levelled to the ground and rebuilt in accordance with been built for about 20,000 persons. So much for the first phase of the Trust's labours.

The second phase, arising gradually out of the first and advancing along with its later stages, consists of the development of a new suburban area in the north of the island, be-yond the present city, and the construction of great arterial thoroughfares traversing the island from north to south. The latter undertakings were originally known as the eastern and western avenue schemes, but the cost of and western avenue scheines, but the cost of land is rising so rapidly throughout the city, and the expense of new works is accordingly growing so heavy, that the western avenue has had practically to be abandoned and modified improvements of existing highways

commercial city, directly north to Lalbagh, near the entrance road to old Government House, Parel, and have a width varying from 100 to 120 feet. It is divided into three sections. The first, starting from Crawford Market and reaching to Pydhonle, is already in the hands of the engineers for execution. The second, for which Parel-road will be widened. is awaiting the passage of the new legislation enabling the Trust to raise additional funds. The third and northernmost portion is under construction.

Beyond the northern end of the Eastern Avenue, the north-east portion of the island, extending some three miles, consisted until recently of swampy rice lands, interspersed with bits of jungle and small hills and a few building areas. The Trust have acquired the whole area. A broad thoroughfare has been laid through the centre of it, with other roads connecting the outlying parts with the central road and with the railway stations. Some of the hills have been levelled and the material from them used to fill the low-lying parts of the estate. Development some time ago reached the stage of readiness for building in the half of the scheme nearest the city, and the Trust are now devoting their attention to facilitating private enterprise in this direction. The suburb will probably become largely residential for people whose daily pursuits take them to the southern city, but its chief use will be for those whose avocations employ them in the large new port extension which the Port Trust are carrying out excession when one fore risks are carrying durat the north of the present port and where the new cotton green and grain yards will be situation. The Port Trust have reclaimed 500 acres of land from the north of the harbour, at a cost of £1,833,333, and the whole of the export trade of the port will be concentrated in this new area and in that adjoining it, at Mazagaon and Sewri.

Statistics.

The following are some statistical details of the progress of the Trust's operations. By the end of 1913-14 the Board had raised Its. 498 lakhs by loans and their total capital receipts, including 50 lakhs received from the Government of India in 1911 and 4 lakhs from Government of India in 1911 and 4 lakhs from the Government of Bombay in 1913, amounted to Rs. 570 lakhs, out of which they had spent 29 lakhs on improvement of Government and Municipal lands temporarily vested in them, Municipal lands temporarily vested in them, Rs. 523 lakhs on their own acquired estates and 3 lakhs on their office building. The following table shows the extent of the development operations carried out by the Trust up to the end of the official year 1913-14:—

8n. wards

Developed Land	in housands.
Permanently leased Chawl sites Yet to be permanently leased	700 · 56 67 · 17 285 · 11
Remainder roads, open spaces,	432. 8
Total	1,485 . 66

. Rs. 10 · 52 lakhs. leased area rea of undeveloped land in thousands of Area 5,426.2 square yards Rs. 212'42 lakhs. Cost of acquisition The disposal of plots on the Trust's newly the disposal of piots on the Irus's newly developed estates is now progressing at a favorrable rate. Practice shows that for obvious reasons the disposal of plots proceeds most slowly when an estate first becomes available for reasing to the public. When the first plots have been taken up and bouse buildnrst plots have been taken up and house building begins to assume definite proportions the remaining sites pass off without difficulty. The total plots disposed of during the last official year (1913-14) was above normal, both as regards area and value. Taking all previous years into account the number of plots disposed of in 1913-14 (75) was one short of the record established in 1912-13. The total area (227,145 square yards, including land resumed by Government) disposed of in land resumed by Government) disposed of in 1913-14 beat the previous best (109,400 square yards in 1912-13) by a large amount, while the yards in 1912-13) by a large amount, while the annual rental derivable from the year's transactions is Rs. 1,32,361. So far as area is concerned the land disposed of is far above normal and is a record, but in point of value there was a drop of about Rs. 8 lakhs in capital value and Rs. 33,000 in partial as conversed. value and Rs. 33,000 in rental, as compared with the exceptional year 1912-13. The price per square yard realised for plots leased during

of permanently-

By the beginning of 1913-14 completion certificates had been issued for 288 buildings on the Trust Estate, exclusive of Police chawls and Trust chawls. In 1913-14 certificates were granted for 28 new buildings.

the year was considerably less than during the two preceding years. Only sever plots rea-lised over Rs. 100 per square yard, this being due to the fact that the most valuable plots in the area available for leasing had already

been disposed of. The highest price per square yard realised in 1912-13 was obtained for two plots opposite Crawford Market on the Princess Street Estate which were let on a basis of Rs. 652 per square yard which is second only to the rate of Rs. 730 per square yard (£236,000 per acre) obtained for the adjacent plot in

The Working Classes.

The average total population in the Trust chawls was 16,560 in 1913-14. The total rent of the 4,362 rooms in Trust's chawls at

Rs. 2,25,481. The percentage of outgoings to gross chawl revenue is found to be approximately 31:83 per cent., this proportion being higher than in the case of private chawls mainly because private owners spend far less than the Board on the sanitation of their chawls. the basis of the maximum annual rent of Rs. the basis of the maximum annual rent of as-2,30,856 and outgoings at \$1.93 per cent., the net annual income works out to 68.17 per cent. of Rs. 2,30,856, i.e., Rs. 1,55,375, i.e., 4.55 per cent. on the cost of chawls (including value of land) amounting to Rs. 34,55,199 on which the Board pay annual Interest and Sinking Fund charges at 4 61 per cent, amounting to Rs. 1,50,285. There was thus a net loss of Rs. 1,900 on the existing chawls, the average population of which was 14,772 during the year under review.

With the one exception of the old Nagpada with the one exception of the old Nagpada chavis where there are special conditions the death rate in the Trust's permanent chawls has always been considerably below the general death rate in the vicinity. The smallest one-room tenement on the Trust Estate is large enough for a family of five.

A New Method.

A further development of method in dealing with insanitary areas is now in prospect. It has already been recognised that estimates on the old wholesale demolition lines would be prohibitively expensive for the large "represented" areas remaining to be dealt with, owing to the constantly increasing cost of property and work, and could benefit only small areas surrounded by larger areas in which Insanitary conditions are always going from bad to worse with the extension of building operations, under the lax Municipal by-laws already referred to. It is recognised that what is wanted is some general scheme of improvement that can be applied all over the city and some means of putting an immediate city and some means of putting an immediate check to the spread of further insanitary evils through the weakness of the by-laws, especially in relation to the lighting and ventila-tion of one-roomed tenements. The Trust officers have devoted much time to studying this question and the chairman some time ago propounded a scheme by which all in-adequately lighted and ventilated rooms in Bombay might be closed gradually and houseowners required, with some assistance from public funds, to reconstruct their houses, so that all rooms in them used for dwellings might chawls was 16,560 in 1913-14. The total nerver of the 4,362 rooms in Trust's chawls at the maximum rates works out to Rs. 2,30,856 per annum, but, owing to vacancies in some chawls, the maximum for 1913-14 was

The Indian Ports.

The administration of the affairs of the respectively, of all the chief Indian ports: The administration of the affairs of the larger ports (Calcutta, Bomboy, Madras, Karachi, Rangoon and Chiltagora) is vested by law in bodies specially constituted for the purpose. They have wide powers, but their proceedings are subject in a greater degree than those of municipal bodies to the control of Government. Except in Calcutta, the elected members are fewer in number than the nominated members. At all the ports the European members constitute the majority and the Board for Rangoon consists wholly of European members.

The income and expenditure of the five principal ports managed by Trusts (Aden is excluded from the tables) is shown in the following table :-

	Income.	Expendi- ture.	Capital Debt.
Calcutta	 £ 949,754	£ 980,021	€ 6,125,869
Rombay	 592,538	653,111	8,644,383
Karachi	 305,740	251,337	1,524,278
Madras	 292,897	239,720	617,207
Rangoon	 84,345	55,553	1,452,513

The Director of Statistics (Department of Commerce and Industry) last year issued the following returns showing the ratios borne by the income and the expenditure of each port to 1912 13 was about the total income and the total expenditure, £16,613,333 in 1911-12.

		Income per cent.	Expenditure per cent.
Calcutta		41:3	46.2
Bombay		20.3	24.8
Madras		4.9	5.6
Karachi		11.1	11.2
Rangoon		12.7	14.3
Chittagong	•••	•7	

The official return of the Director of Statistics shows that in the ten years ending 1912-13, the income and expenditure of each port have increased as shown in the following table. The total income of all the ports has increased in the decade by 79.8 per cent, and the total expenditure by 83.1 per cent. :-

	- 1	Increase per cent.		
		Income.	Expenditure	
Calcutta]	78:0	91.5	
Bombay		39.8	91.6	
Madras		96.1	108.7	
Karachi		139.8	139.7	
Rangoon		158.5	140 3	
Chittagong		71.9	122.3	

The capital debt of the Trusts at the end of £17.645.410 against

CALCUTTA.

The Commissioners for the Port of Calcutta are as follows:-

Appointed by Government.-The Hon'ble Mr. G. J. Stevenson Moore, C.V.O., I.C.S., Chairman; the Hon'ble Mr. H. J. Hillary, Officiating Vice-Chairman.

Elected by the Bengal Chamber of Commerce. Messrs. A. C. Patterson (Becker Gray & Co.), W. E. Crum (Graham & Co.), R. G. Monteath (Mackinnon, Mackenzie & Co.), and the Hon'ble Mr. J. C. Shorrock (George Henderson & Co.), S. Eustace (Kilburn & Co.), M. J. Calvacoressi (Ralli Bros.).

Elected by the Calcutta Trades Association .-Mr. W. Smith (Hamilton & Co.).

Elected by the Bengal National Chamber of Commerce.-Babu Amulya Dhan Addy.

Elected by the Corporation of Calculta .-Dr. Haridhan Dutt.

Nominated by Government.-Messrs. W. S. Nominated by Government.—Messrs. W. S. Godfrey Agent, Bengal-Nagpur Railway), Col. C. A. B. Browne, R.E. (Agent, Eastern Bengal State Railway), Mr. C. Laird MacGregor, I.C.S. (Collector of Customs), and Captain G. S. Hewett, R.I.M., Deputy Director, Royal Indian Marine archives. Indian Marine, ex-officio.

The principal Officers of the Trust are :-Officiating Secretary .- Mr. T. H. Elderton,

Chief Engineer .- Mr. J. Scott. M. INST. C.E. Consulting Engineer and London Agent .-Mr. J. A. Angus, M. INST. C.E.

The income of the Trust in 1913-14 amounted to Rs. 1,51,28,435 and exceeded that of 1912-13, the previous highest record, by Rs. 8,82,118. The tonnage of goods handled at the jettles was 1,187,000 and exceeded that of 1912-13 was 1,101,000 and calcular that the previous highest, by 221,000 tons. At the wet docks the total import and export traffic exceeded 5 million tons in 1911-12, but there was a falling off of 214,000 tons. During 1918-14, 1,650 vessels, with a gross tonnage of 6,920,817, entered the port as against 1,730 vessels, with a gross tonnage of 7,074,830 in 1912-13. With the steady growth of trade and shipping at the port, the Port Commissioners' income has expanded as follows during the last decade :-

	Income. Rs.
::	79,65,376 88,86,726 89,55,395 1,00,08,736 1,09,57,142
	::

Year.	Income.
	Rs.
1908-09	 1,20,16,630
1909-10	 1,18,36,518
1910-11	 1,28,26,171
1911-12	 1,35,90,408
1912-13	 1,42,46,317
1913-14	 1,51,28,435

The figures of income do not however indicate fully the expansion that has taken place in the operations of the Trust, because since the year 1902-03 the Commissioners have reduced their rates and charges at various times.

The expenditure during the last official year amounted to Rs. 1,56,61,451. This is Rs. 9½ lakhs more than in the preceding year. The Port Commissioners point out that an increase in their working expenses is inevitable, owing to the large amount of capital stunk in and to provide for future port extensions and at present unproductive, to increased cost of repairs and maintenance as plant increases and to extended dredging operations. The Commissioners have formulated proposals which, without imposing any inequitable burden upon trade, will restore equilibrium between income and expenditure. There was a net detict in 1913-14 of Rs. 5,23,015, which has been met out of the Revenue Reserve Fund accumulated out of past surpluses.

Various considerable improvements for the expansion of the port have recently been carried out to provide for the growth of trade. An important project recently undertaken was one for the lighting of the lower reaches of the Hughil with a view to their navigation by night. Considerable progress has been made with a new scheme for the extension of the docks. A special committee was appointed in England in 1913, to visit and inspect British and Continental ports with a view to advising the Commissioner in the light of the latest experience there on various points connected with new works.

But these undertakings only belong to the outskirts of the main problem. The remedial measures of the Port Trust have proved beneficial, but they are insufficient to meet the eyerincreasing requirements of trade. The question of the congestion at the Calcutta jettles and the absence of adequate transport facilities for the present volume of trade, has been engaging the attention of Government for some considerable time past. There has been a very great expansion of the trade of the port and a large increase in the number and tonnage of vessels entering it, and the lack of sufficient accommodation has resulted in serious delays to vessels and consequent loss, chiefly arising from the inadequacy of facilities for the discharge of cargo at the jettles.

The Government of Bengal, in December, 1913, appointed a Committee to investigate the important questions represented by the problem of the future development of the port. The Committee consisted of the Hon. Sir William Duke, Chairman; Sir Henry Burt, the Hon. Mr. A. M. Monteath, the Hon. Mr. J. C. Shorrock, the Hon. Raja Hrishikesh Leka, Mr. A. G. Lyster, and Mr. H. P. Howard, members and Mr. R. N. Reid, I.C.S., Secretary.

The Committee was empowered to-

(1) examine the existing traffic and port facilities in Calcutta and its immediate neighbourhood;

(2) investigate the present and future requirements of the trade of Calcutta, and

(3) determine the extent to which the various transport agencies shall provide new works and other facilities in order that these requirements may be fully met for as long a period as it is reasonable to prepare a forecast.
The Bengal Government, in an explanatory

announcement, agreed "that the subject for consideration is one of wider range than an enquiry into the facilities afforded to the import trade at the jetties, and that it concerns rather the question whether proper facilities of all kinds are being provided to enable the port and railway authorities to deal promptly and ade-quately with the rapidly-expanding trade of Calcutta in accordance with a well-defined and carefully-thought-out policy. There are several projects for improving transport facilities and the railway and other approaches to the port, which have been prepared at various times and which are now under consideration, such as the provision of railway bridge over the Hughli at Panihati, the expansion of the docks, the provision of new coaling berths on the Howrah side of the Hughli, the Grand Trunk Canal Project, the removal of the Hatkhola jute mart and additions to the jetties. These projects are of the first importance and involve enormous expenditure and they should, it is rightly held, be examined and co-ordinated by a committee whose duty it would be to make an exhaustive enquiry into the requirements of the trade of the port and the means by which these requirements could be met."

The Committee's report was published in March, 1914. It approved of the new scheme already undertaken by the Port Commissioners for the extension of the Docks, saying "we are of opinion that the general layout of the scheme is suitable, and that it will ensure an ample margin for the expansion of trade which is likely to take place in any period that can reasonably be foreseen." The Committee said that "the main criticism to which the conduct of the Port affairs is open is that the inception of these schemes was delayed until the great increase of trade during the last two years has showed only too conslusively how urgently they were required."

At the same time, the Committee recognised the eminent services rendered to the Port by the late Sir Frederick Dumayne, during his tenure of fine as Vice-Chairman of the Port Commissioners, stating that the schemes of extension recommended were initiated under his auspices: and that their inception is now possible is due to his foresight and to his grasp of the situation.

The Committee considered that the future expansion of the seaborne trade of Calcutta should take place in the neighbourhood of the docks. Their principle conclusions, in addition; o their approval of the dock extension scheme, may be summarised as follows. A standing advisory Committee should be appointed in reference to the railway approaches and lay-out of the siding accommodation for the new dock system

the Committee to consist of the traffic officers of the Port Trust and of the railways concerned. It would be unwise to incur a large outlay in developing the present jetties, but steps should be taken to mitigate the existing defects in regard to them without undue expenditure on schemes that will not be permanently useful. The whole question of the improvement of the The whole question of the improvement of the river Hughli should be thoroughly investigated and decided on at an early date. The present site of the Howrah bridge should be adopted for the proposed new bridge, which should be wide enough to allow of three streams of traffic

and should carry greatly widened footways. The Improvement Trust should consider the whole question of road communication in connection with the prospective development scheme of the Port Commissioners. The opening of a second railway bridge over the Hughli will be required eight years hence. The Committee recommended various measures to enable the revenues of the Port Trust to meet the charges on the large capital works contemplated.

The Capital debt of the Port at the end of the last financial year was Rs. 9.18.88.04. in each direct on, in addition to the trams, The total assets amounted to Rs. 12,07.34,832.

BOMBAY.

Appointed by Government.—The Hon'ble Sir F. L. Sprott (Chairman), Mr. Navroji Jehangir Gamadia, Mr. Mahomedbhoy Currimbhoy Ebrahim (Currimbhoy, Ebrahim & Co.), bhoy Ebrahim (Currimbhoy, Ebrahim & Co.), Captaln W. Lumsden, C.V.O., R.N. (Director of the Royal Ind an Marine), Mr R. Woollcombe (Agent, B. B. & C. I. Railway), Mr. R. F. L. Whitty (Collector of Customs, Bombay), Major H. A. L. Hepper, R. E. (Agent, G. I. P. Ry.), Mr. Purshotamdas Thakurdas (Narandas Rajaram & Co.), and Mr. P. R. Cadell, C.I.E., 1.O.S. (Municipal Commissioner, Bombay)

Elected by the Chamber of Commerce.—The Hon'ble Mr. T. W. Birkett (Killick, Noxon & Co.), the Hon'ble Mr. Marshall F. Reid, C.I.E. (Bombay Co., Ltd.), Mr. J. N. Metaxa (Ralli Bros.), The Hon'ble Mr. W. L. Graham (W. & A. Graham & Co.) and Mr. A. H. Froom (Peninsular and Oriental Steam Navigation Co., Ld).

Elected by the Native Piece-goods Merchants' Association.—Mr. Devidas Madhowji Thakersey (Madhowji Thakersey & Co).

Elected by the Millowners' Association.— Sir Vithaldas D. Thackersey, Kt. (Thackersey, Mooljee & Co.).

The following are the principal officers of the Trust :-

Secretary .- Mr. H. E. Hart.

Engineers.—Messrs. P. G. Messent, M. INST. C.E. (Chief Engineer), Mr. A. C. W. Fosbery, M. INST. C. E. (Deputy Chief Engineer), I. H. Savile, A. M. INST. C.E. (Deputy Chief Engineer, New Docks Works), C. Anderson (Mechanical Superintendent).

Port Officer .- Commander St. L. S. Warden, R. I. M.

The revenue of the Trust in 1913-14 amounted The revenue of the Trust in 1913-14 amounted to Rs. 98,79,805. This is the highest on recording the history of the port, and in excess of the previous highest figure, that for 1912-13, by nearly ten lakhs. The expenditure from revenue was Rs. 82,30,307, leaving a surplus of Rs. 16,49,498, available for transfer to the Revenue Reserve Fund. This fund was thus brought up to Rs. 1,05,58,869. (Its purpose is to meet the special outgoings of the Trust after the completion of the Alexandra Dock which was actually opened in March, 1914). On capital account the expenditure during the year

The Board of Trustees of the Port of aggregated Rs. 1,54,28,303 of which Rs. Bombay is constituted of 16 members, as 1,44,10,679 was spent upon new large works—follows:—

Alexandra Wet Dock and Hughes Dry Dock and the Mazagaon-Scwri port extension reclamation. The total debt of the Trust at the end of the year amounted to Rs. 12, 96,65,747.

The total trade of Bombay port during the last official year was Rs. 2093 crores, an Increase con pared with the previous year of Rs. 19 lakhs or '09 per cent. The number of team and aquare rigaged vessels which entered the docks or were berthed at the harbour walls and roll dies excellent of these which and pald dues, excluding those which remained for unloading and loading in the harbour stream during recent years, including last year, is shown by the following state-ment:

Year.	. 1	Yumbo	٠.	Tonnage.
1906-07	 	1476		2,090,406
1907-08	 	1477		2,678,345
1908-09	 	1474		2,633,308
1909-10	 	1611		2,747,779
1910-11	 	1589		2,866,623
1911-12	 	1519		2,767,918
1912-13	 	1566		2,926,506
1913-14	 	1579		3 135 507

Bombay Port Extension.

The Bombay Port Trust have in the past year partially completed important new development schemes, which will add greatly to the facilities of the port. Foremost amongst these works comes the Alexandra Dock, the equipment of which will have no superior in the world.

The starting point of the modern port of Bombay was the year 1862, when the Elphinstone Land and Press Company, which had already done useful development work, entered into a contract with Government to provide a hundred acres for the terminus of the Great Indian Penirsula Railway, receiving in return the right to reclaim from the sea for its own advantage two hundred and fifty acres fronting the properties it had already acquired. The Company brought its estate into bearing with rare enterprise.

Doubts were felt subsequently of the wisdom

being managed by a department of Government in the interregnum, the property passed to the newly-constituted Port Trust in June, 1879

Government purchased in 1879, on behalf of the Trust, the private foreshore owners' rights, at a cost of Rs. 75 lakhs, and at the same time reconstituted the Trust on a basis on which it has worked exceedingly well until the present day. The late King Emperor Edward VII, during his visit to Bombay in 1875, laid the foundation stone of the first large dock, which has since been known as Prince's Dock. This was opened in 1880, and thenceforward the financial difficulties hitherto experienced by the Port Trust disappeared. The construction of the Victoria Dock followed and recent years have provided an unbroken succession of surplus receipts into the treasury of the Port. Out of these profits charges on trade have been reduced wherever they pressed and the financial position of the Trust has greatly been strengthened by the building up of a large revenue, by the institution of sinking funds for the repayment of the whole of the existing debt and by liberal appropriations to depreciation accounts.

The trade of the port rapidly outgrew the accommodation provided at Prince's and Victoria Docks. The developments now in progress are the result and are estimated to provide for the requirements of the Port for another 20 years, or longer. The new schemes may be divided into four heads:

- (a) The construction of the Alexandra Wet Dock and Hughes Dry Dock, of which His Majesty The King Emperor laid the foundation Majesty The King Emperor and the community atone during his visit to Bombay as Prince of Wales in 1905. His Excellency the Viceroy, with Her Excellency Lady Hardinge, performed the opening ceremony in March, 1914;
 - (b) The reclamation for the development of Port facilities of 583 acres, with a wharf of Port members of non-acres, with a what frontage 24 miles in length—an addition of some 4½ per cent. to the area of the city—at Mazagaon and Sewri, beyond the present Docks at the extreme north of the harbour :
 - (c) The building of a new railway leading from the main lines of the G. I. P. and B. B. & C. I., outside the city, to the Docks, in order to provide for more expeditious handling of heavy railborne traffic; and
 - (d) The construction of a complete bulk oil installation at Sewri, at the north of the docks, with a deep-water pier.

The total estimated cost of the new dock and its equipment is Rs. 5,86,43,570, or, say, 525,909,571; cost of the Port Trust Railway over 64 lakhs (£426,666); of the bulk oil installation, 22‡ lakhs (£147,500); and of the companion and contingent works Rs. 388 reclamation and contingent works, Rs. 388 lakhs, or, say, £2,586,666.

The contract for the Alexandra Dock was given to Messrs. Price, Wills & Reeves in 1903. The dock is oblong in shape, with two bays at the north end. The total area of the

ment in 1869, the purchase price being ap- including the harbour wall, nearly three miles. proximately two millions sterling, and after There are 17 berths 500 ft. in length. These herths are equipped with hydraulic cranes and transit shed accommodation varying from 3-storeyed sheds 400 ft. long by 120 ft. wide, to single storeyed sheds 400 ft. long by 100 ft. wide. Railway sidings run between the quays and the sheds, also behind the sheds. On the harbour wall there is a quay 3,000 ft. long, equipped with hydraulic cranes and transit sheds. The north end of this quay is intended for a trooping berth. Hydraulic power is used for working the cranes, dock gates, machinery, transit shed lifts, capstans, etc. A floating crane to lift 100 tons forms part of the equipment of the dock. The dock entrance is through a lock on the south-west, parallel to which runs the new dry dock, a thousand feet long, a hundred feet wide, and with a sill thirty-four and a quarter feet below high water ordinary near tides.

> Outside the dock, beyond the entrance lock, runs the new mole, a continuation of the southwest wall, alongside which ocean steamers may embark and disembark their passengers direct from the shore, thus dispensing with the tiresome interposition of the tender. In the immediate vicinity of the landing pier, a Cus-toms house, refreshment and waiting rooms, post and telegraph offices and every facility the traveller can require are under construction.

The small Carnac basin, immediately north of the new dock and formerly used by country craft, has been filled in, thus enabling a canal to be cut from the northern extremity of Alexandra Dock, and extending to Victoria Dock. The width of the canal will be 80 ft. Four berths will be provided to permit ships to lie at the wharves on either bank. The waterway at the wharves on either bank. The waterway will enable ships to be taken into any part of the Bombay dock area through the Alexandra Dock entrance. This will probably lead to the closing of the old dock entrances, with the result that ships will be saved much intricate headlings and the Dock Court in the conditional of the Dock Court in the conditional of the Dock Court in the conditional of the Dock Court in the conditional of the Dock Court in the conditional of the Dock Court in the conditional of the Dock Court in the conditional of the Dock Court in the conditional of the Dock Court in the conditional of the Dock Court in the conditional of the Dock Court in the conditional of the Dock Court in the conditional of the Dock Court in the conditional of the Court in the co intricate handling and the Port Trust will be relieved of the necessity of expensive dredging operations.

The railway sidings and series of transit sheds in the new dock were planned according to the most modern principles of dock manage-

The Sewri reclamation will chiefly be utilised for the accommodation of the export trade of cotton, grain and seeds, which form the largest item in the traffic of the port. The old cotton green—or market—is situated at Colaba, at the extreme southern end of the port and has long been greatly overcrowded, besides encumbering that end of the port. The new cotton green and godowns on the reclamation will cover about 106 acres, with 182½ acres available for future extension. The present greens and godowns at Colaba occupy 50 acres. Unloading sidings with accommodation for 700 wagons are to be previded in addition. 700 wagons are to be provided, in addition to ample running lines, as compared with sidings to hold 154 wagons at Colaba at present. The constant outbreak of incendiary fires on the Colaba Cotton Green led to the opening of a special, temporary cotton green on the new wet basin is 49.52 acres, the length of quays, the large new green is ready. reclamation in 1914 and this will be used until

KARACHI.

the Port of Karachi are as follow, being seventeen in number:-

Chairman .-- Mr. H. C. Mules, C.S.I., M.V.O. Vice-Chairman .- Mr. F. S. Punnett.

Appointed by Government.—Mr. H. C. Sparke, Major W. E. R. Dickson, R.E., Mr. T. J. Stephen (The National Bank of India, Ltd.), Mr. W. U. Nicholas (Anderson & Co.).

Elected by the Chamber of Commerce.—The Hon'ble Mr. M. de P. Webb, C.I.E. (Forbes, Forbes, Campbell & Co., Ltd.), Mr. J. H. Fyfe (Mackimon, Mackenzie & Co.), Mr. James Kenyon (Sanday, Patrick & Co.)

Elected by the Municipality.—The Hon'ble Mr. Harchandrai Vishindas, B.A., IL.B., and Mr. Wadhumal Oodharam, B.A., LL.B.

Officers of the Trust are :--

the Port of Madras :-

Spring, K.C.I.E.

Morin.

Port Officer.—Commander Wilson, R.I.M. Secretary.—Mr. R. W. Cooper. Chief Engineer.—Mr. G. R. Lynn.

The revenue receipts and expenditure of Karachi port for the year 1913-14 were as under :-

Revenue receipts (excluding expenditure from the Port Fund Account) Rs. 48,46,100; Expenditure Rs. 39,20,852; Surplus Rs. 9,25,248. The revenue receipts were the highest ever expenditure As. 39.20,852; Surplus As. 9.25,248. The revenue receipts were the highest ever realized in the history of the port, exceeding those of 1912-13, the previous highest, by Rs. 2,59,998. In 1907 the Port Trust appointed of works, the result of the committee, who after a very careful enquiry reported that as far as they were able to estimate, the income in 1917-18 would approximate Rs. 45,87,800, being roughly 50 per facilities is in progress in several other directions.

The Members of the Board of Trustees of cent. more than the income in 1906-07. The Board adopted the figure, and in reporting on the subject, remarked that "looking at the growth of this port in the past ten years, in which period their revenue has increased by 25 per cent., they can see no reason why their revenue should not increase by 50 per cent. in the next ten years." The figures given above show that the Board's estimate was far from unduly sanguine, as their income increased by 50 per cent. in half the period named. The capital debt of the Port, at the named. The capital debt of the Port, at the close of the last financial year, amounted to Rs. 2,28,64,177.

New Port Trust Offices are being built and are approaching completion. A new Customs House has been undertaken.

The number of vessels entering the port in the last official year was 3,103, with a toninge of 2,056,370 tons, against 3,742, with a toninge of 2,195,904 tons in 1912-13. This is exclusive of vessels put back and fishing boats. The number of steamers which entered the port was 930 against 990 in the previous year. The tonnage of steamers entering the port was 1,941,407 compared with 2,049,219 in the previous year.

Imports landed during the year amounted to 1,067,004 tons and shipments 1,483,060 tons.

MADRAS.

The following gentlemen are the Trustees of and the gross expenditure out of revenue Port of Madras:—

Rs. 9.61.816, or to the equivalent of 62 97 of is, 9,04.810, or to the equivalent of 62.37 of the gross receipts. The actual working ex-penses of the port came to 41.94 per cent. of the gross receipts. Vessels of all sorts to the number of 624 and a tonnage of 1,777,470, paid port dues and about 797,605 tons of expen-and imports were dealt with at the port. Total Officials.—The Hon'ble Sir Francis J. R. pring, K.C.I.E. (Chairman), Mr. A. S. A. restropp, I.C.S. (Collector of Customs), Mr. Hood the Port Officer, Commander Westropp, I.C.S. (Collector of Customs), Mr. H. Hood. the Port Officer, Commander W. B. Huddleston, R.I.M., and Mr. A. H. value of the trade of the port in 1913-14 was Rs. 2,411 82 lakhs, on 10 per cent. more than in 1912-13.

Constant improvements of the port are in constant improvements of the port are in progress to meet the increasing demands of trade. The Trust recently launched out into a policy of borrowings in order to enable the entire 200 acres within the enclosed harbour to be deepened from 28 to 32 feet below low Trades Association.—The Hon'ble Mr. R. Maclure Savego.

The receipts of the Trust from all sources of revenue during the financial year 1913-44, vigorously proceeded with. The Port including the grant of Rs. 50,000 from the Government Port Fund, were Rs. 15,27,501, was Rs. 92,58,110.

Non-Officials. Khan Bahadur Muhammad Abdul Kuddus Badsha Sahib, M. R. Ry. Rao Bahadur P. Theagaraya Chetti Garu, B.A., M. R. Ry. Rao Bahadur G. Narayanaswami Chetti Garu. Representing Chamber of Commerce.—Mr. G. Fraser, Sir J. A Boyson, Mr. R. Greenall and the Hon'ble Sir Hugh S. Fraser.

RANGOON.

The personnel of the Commissioners for the port of Rangoon is comprised of the following thirteen members:—

Appointed by Government.—Mr. George Rangoon), Commander Seymour Douglas Runningham Buchanan, C.I.E., M. Inst. O.E. Vale, R.I.M. (Principal Port Officer, Burma),

Messrs. William Henry Lawson Cabell, B.A., I.C.S. (President, Rangoon Municipal Committee), Charles Townley Graham, Philip Henry Browne and Francis Dundas Couchman.

Elected by the Burma Chamber of Commerce.-Messrs. John Renwick Halliday, Berkeley John Byng Stephens, James Cleland Macken-drick and William Macdonald.

Elected by the Rangoon Trades Association .-Mr. Jules Emile DuBern.

Officers of the Trust are :-

Secretary.—Mr. I. Cowling. Resident Engineer.—Mr. J. Ll. Holmes. Executive-Engineer (River Training Works.)-

Mr. W. G. Keay.

The receipts and expenditure on revenue account of the port of Rangoon in 1912-13 were as follow:

Rs. 51.84.773 Receipts 37,03,032 Expenditure The capital debt of the port fund at the end of the year was Rs. 2,67,87,702. The total value of the trade of the port during

the year was Rs. 5,573.20 lakhs, as compared with Rs. 5,436 lakhs in the preceding year.

The cargo landed on the Commissioners' whatves and pontoons from sea-going vessels amounted to 608,806 tors and the total volume of imports from European ports increased by 26

vessels totalled 1,267,552 tons. The total number of steamers entering the port was 1,473 with a total net tonnage of 2,937,221 being an increase of 21 steamers and 83,970 tons over the previous year, and 1,483 steamers with a net tonnage of 2,958,733 left the port. The total net tonnage of vessels entering the port was the largest on record.

There took place on the 17th February, 1914. the inauguration of the recently completed river training works, rendered necessary by the erosion of the right bank of the Rangoon river above the town to such extent as to threaten the permanent diversion of the main stream from the Rangoon foreshore and the consequent formation of a sandbank in front of the whole of the port frontage. The works comprised a training wall 10,000 ft. long and the dredging of a channel through the shoal in front of the wall. It is calculated that 99½ per cent. of the river is brought under control. One and a half million tons of granite were used in the work. The wall was practically completed one year and nine months before the estimated time. The object of the work has successfully been accomplished, the main channel of the river has been diverted into its new course and the erosion of the right bank has ceased. . The revised estimate for the complete work is Rs. 138 lakhs, against the sanctioned estimate of Rs. 150 lakhs. The cost is borne by a free grant of Rs. 50 lakhs from the Government of India and by the raising of port debatter. least, and the cost of the c loans. per cent. and the imports from Asiatic ports ing, will impose a burden of some Rs. 5½ lakhs declined. The traffic at the jetties for inland on the trade of the port.

BOY SCOUTS.

The Boy Scouts movement, initiated in England by Lt.-Gen. Sir Robert Baden-Powell (the Chief Scout), has spread widely in India, and the Boy Scouts Association is so develop good citizenship among boys by forming their character—training them in habits of observation, obedience and self-reliance—inculcating loyalty and thoughtfulness for others—and teaching them services useful to the public and handic crafts useful to themselves. crafts useful to themselves.

The following division of duties of the Indian Headquarters is officially published for information: -The Assistant Chief Commissioner deals with all matters of Organisation sioner deals with all matters of Organisation and Discipline, including the issue of Warrants to new Local Associations and Officers, also the registration of new troops, which should be applied for on Form C. obtainable from the General Secretary. Recommendations for awards of Life Saving Michals and Certificates should be made to him and also all applications. should be made to him and also all applications den. C.v.o., A.D.C., R.N., Director, Correspondence on the subject of Challenge Trophies. Correspondence on the above subjects should be addressed to him at Fort William, Calcutta, by Loc al Secretaries, always through the District and Provincial Commissioner where such exist. The General Secretary (Captain T. H. Hon. Asst. Secretary Head Quarters Councillable routine matters, official publications, sale of the subject of for exemption from the swimming test for 1st

It is obtainable from the General Secretary, Subscription Rs. 2-8-0 per annum.

HEADQUARTERS STAFF IN INDIA.

Chief Commissioner,-Lieut.-General Sir Robert I. Scallon, K.C.B., K.C.I.E., D.S.O., A.D.C., Luck-

Private Secretary to Chief Commissioner—Captain W. R. Daniell, 123rd Outram's Rifles.

Deputy Chief Commissioner—The Hon'ble Major-General W. R. Birdwood, C.S.I., C.I.E., D.S.O., Simla.

Commissioner for Sea Scouts-Captain W. Lums-

Famine.

Famine in India is the inevitable accom- India there is now no such a thing as a food paniment of economic conditions which leave the bulk of the people dependent on the soil for their means of livelihood. It is intensified, because the produce of the soil over the greater part of India is dependent on a short rainy season, and the rains are erratic and subject season, and the rains are errate and subject to violent fluctuations. It falls with exceptional severity on India because the soil is divided into a multitude of petty holdings, tilled by people without any capital, living for the most part from hand to mouth, and amongst whom credit ceases to exist as soon at the rains fail. In other grightlying countries that the property of the countries of the rains fail. an the rains fail. In other agricultural countries there are good seasons and bad; but there is none other, with the possible exception of China, where in a famine year millions of acres may not yield so much as a blade of grass, except under artificial irrigation. The conclusion to be drawn from these conditions is that for many years to come India must be susceptible to famine. The shock of famine may be mitigated by the spread of railways, by the development of irrigation, the growth of manufacturing industry, and the improvement of rural credit. There is evidence that all these forces are tending greatly to reduce the social and economic disturbance caused by a failure of the rains. But they cannot entirely remove it.

Famine under Native Rule.

At one time there was a general tendency to attribute famine in India entirely to the effect of British rule. In the golden age of India, we were told—whenever it may have been—famine was unknown. But India had been drained of its resources of food by the railways, the people had been impoverished by the land revenue demand, and the country as a whole had been rendered less capable of meeting a failure of rains by the "Drain" caused by the Home Charges (qv). These fallacies have disappeared under the infallacies have disappeared under the in-scorable logic of facts. A better knowledge of Indian history has shown that famines were frequent under Native rule, and frightful when they came. "In 1630," says Sir William funter, in the History of British India, "a calamity fell upon Gujarat which enables us calamity fell upon Gujarat which enables us to realise the terrible meaning of the word famine in India under Native rule. Whole cities and districts were left bare of inhabitants." In 1831 a Dutch merchant reported that only eleven of the 280 families at Swally tnat only eleven of the 200 families at Swally survived. He found the road thence to Surat covered with bodies, decaying on the highway where they died, there being none to bury them. In Surat, that great and crowded city, he could hardly see any living persons; but "the corpses at the corner of the streets lie twenty together, nobody burying them. Thirty thousand had perished in the town alone. Pestilence followed famine." Further historical evidence was adduced by Sir Theodore Morrison, in his volume on the Economic Transition of India. The "Drain" theory has been exploded. It has come to be seen

famine; the country always produces enough food for the whole of the population; famine when it comes is a money famine, and the task of the State is confined to providing the means for those affected by drought to earn enough to buy food. The machinery whereby this is done will be examined after we have seen the experiences through which it was evolved.

History of recent famines.

The Orissa famine of 1865-67 may be taken as the starting point, because that induced is the stating point, occause that induces the first great and organised effort to combat distress through State agency. It affected 180,000 aquare miles and 47,500,000 people. The Bengal Government was a little slow in appreciating the need for action, but later food was poured into the district in prodigious quantities. Thirty-five million units were relieved (a unit is one person supported for one day) at a cost of Rs. 95 lakhs. The mortality was very heavy, and it is estimated that a million people, or one-third of the population, died in Orissa alone. This was followed by the Madras famine of 1860, and the famine in Western India of 1868-70. The latter famine introduced India to the great migration from Marwar which was such a distinguishing Marwar, which was such a distinguishing feature of the famine of 1899-1900; it is estimated that out of a total population of a million and a half in Marwar, one million emigrated. There was famine in Behar in 1873-74, then came the great South Indian Famine of 1876-78. This afflicted Madras, Mysore, Hyderabad and Bombay for two years, and in the second year extended to parts of the Central and United Provinces and to a small tract in the Punjab. The total area affected was 257,000 square miles and the population 58,500,000. Warned by the excessive expenditure in Behar and actuated by the desire to secure economy, the Government relief programme was not entirely successful. The excess mortality in this famine is said to have been 5,250,000 in British territory alone. Throughout British India 700,000,000 units were relieved at a cost of Rs. 84 crores, Charitable contributions from Great Britain and the Colonies aggregated Rs. 84 lakhs.

The Famine Codes.

The experiences of this famine showed the necessity of placing relief on an organised basis. The first great Famine Commission which sat under the presidency of Sir Litchard Strachey, elaborated the Famine Codes, which amended to meet later experience, form the basis of the famine relief system to-day. They recommended (1) that employment should be given on the relief works to the able-bodied; be given on the relief works to the able-bodied, at a wage sufficient for support, on the condition of performing a suitable task; and (2) that gratuitous relief should be given in their villages or in poor houses to those who are unable to work. They recommended the the food supply should be left to private agency, has been exploded. It has come to be seen that whilst railways have checked the old-fashboned practice of storing grain in the vill-lages, they have made the reserves, where the should be assisted by loans, and by exist, available for the whole of India. In

famine Code to the provincial governments, the Government of India laid down as the cardinal feature of their policy that the famine wage "is the lowest amount sufficient to maintain health under given circumstances. Whilst the duty of Government is to save life, it is not bound to maintain the labouring population at its normal level of comfort." Provincial codes were drawn up, and were tested by the famine of 1896-97. In that 307,000 square miles were affected, with a population of 69,500,000. The numbers relieved exceeded 4,000,000 at the time of greatest distress. The cost of famine relief was Rs. 7‡ crores, revenue was remitted to the extent of Rs. 11 crore, and loans given aggregating Rs. 12 crore. The charitable relief fund amounted to about Rs. 13 crore, of which Rs. 14 crore was subscribed in the United Kingdom. The actual famine mortality in British India was estimated at 750,000. The experiences of this famine were examined by a Commission under Sir James Lyall, which reported that the success attained in saving life and the relief of distrements. in saving life and the relief of distress was greater than had ever been recorded in famines, greater than had ever been recorded in famines, comparable with it in severity, and that the expense was moderate. But before the Local Governments had been given time to digest the proposals of this Commission, or the people to recover from the shock, the great famine of 1899-1900 supervened.

The Famine of 1899-1800.

· This famine affected 475,000 square miles with a population of 59,500,000. In the Central Provinces, Berar, Bombay, Ajmer, and the Hissar district of the Punjab famine was acute: it was intense in Rajputana, Baroda, Central India, Hyderabad and Kathiawar. It was narked by several distinctive features. The rainfall over the whole of India was in extreme lefect, being eleven inches below the mean. in several localities there was practically no rain. There was in consequence a great fodder famine, with a terrible mortality amongst the cattle. The water supply was deficient, and brought a crop of difficulties in its train. Then districts like Gujarat, where famine had Then districts like Gujarat, where lamine had been unknown for so many years that the locality was thought to be famine immune, were affected; the people here being softened by prosperity, clung to their villages, in the hope of saving their cattle, and came within the cope of the relief works when it was too late and the cope of the relief works when it was too late. scope of the relief works when it was too late to save life. A very large area in the Native states was affected, and the Marwaris swept from their impoverished land right through central India like a horde of locusts, leaving desolation in their train. For these reasons relief had to be given on an unprecedented scale. At the end of July 4,500,000 persons were supported by the State, Rs. 10 crores were spent on rehef, and the total cost was estimated at Rs. 15 crores. The famine was also marked by a widespread acceptance by Native States of the duty hitherto shouldered by the Government of India alone—the supreme by the Government of India alone—the supreme by the Government of India atone—the supreme responsibility of saving human life. Aided by loans to the extent of Rs. 3\ \text{crores}, the Native States did a great deal to bring their administration into line with that in British India Although school deaths from starva-

malaria which followed the advent of the rains, induced a famine mortality of approximately a million. The experiences of this famine a million. The experiences of this families were collated by the Commission presided over by Sir Antony MacDonnell. This Commission reported that taking the familine period as a whole the relief given was excessive, and laid down certain modified lines. The cardinal feature of their policy was moral strategy. Pointing out that if the people were assisted at the start they would help themselves, whilst at the start they would nelp themserves, wansa if their condition were allowed to deteriorate it proceeded on a declining scale, they placed in the forefront of their programme the necessity of "putting heart into the people." The machinery suggested for this purpose was the prompt and liberal distribution of tagai loans, the early suspension of revenue, and a policy of prudent boldness, starting from the preparation of a large and expansive plan of relief and secured by liberal preparations, constant vigilance, and a full enlistment of non-official help. The wage scale was revised; the minimum wage was abolished in the case of able-bodied workers; payments by results were recommended; and proposals were made for saving cattle.

Success of the new policy.

The effectiveness of this machinery was partly demonstrated during the three lean years which followed the great famine in the Bombay Presidency. But it received its most conspicuous demonstration when the rains failed in the United Provinces in 1907-08. rains falled in the United Provinces in 1907-08. Moral strategy was practised here on an unprecedented scale, tagai loans being granted with the greatest liberality. The effect of these measures was succinctly indicated by the Lieutenaut-Governor of the United Provinces, Sir John Hewett, in a speech in summarising his administration prior to his departure in England in March 1912. He showed that in the autumn harvest of 1907 there was a shortage addumn narvest of 1907 there was a shortesge of 4 million tons of food grains and in the spring harvest a shortage of 3 million tons, giving a total of seven million tons, or the food supplies for the Province for nine months and an economic loss of £38 million pounds. The Government advanced £1½ million to cultivators for temporary nurposes and large sims vators for temporary purposes and large sums for wells and permanent irrigation. The whole of this sum was repaid except fifty-four thousand pounds remitted owing to a second bad season and twenty-five thousand pounds bad season and twenty-five thousand pounds then outstanding. By common consent a great famine had never been met with less loss and suffering to the people, and two years later hardly a trace of it remained. In 1911 the rainfall failed over a considerable area in Gujarat in the Bombay Presidency and again in 1912 in the Ahmednagar District of the Bombay Decean and both these partial failures demonstrated that the shock of famine is far less severe now owing to the increased is far less severe now, owing to the increased resourcefulness of the people, than it was so late as 1899. Still further evidence in the same direction was furnished when the rains failed over large areas in the United Provinces in 1913-14. This famine affected 17,000 square India. Although actual deaths from starty at listness was grave in 30,000 square miles with a population of 52 millious, while the starty at listness was grave in 30,000 square miles with a population of 14 millions. It is not possible of cholera, and the devastating epidemic of the starty at th because the detailed official report is not available, but three points soon emerged from the year—the people showed greater resisting power owing to their improved economic condition; they met the emergency with wonderful courage and resource; and the application of the relief programme brought the numbers on public works within manageable proportions, and induced the speedy return of the people to their normal avocations when the advent of bountiful rains in 1914 onabled agricultural operations to be generally resumed.

The Government of India is now in possession of complete machinery to combat the effects of drought. In ordinary times Government is kept informed of the meteorological conditions and the state of the crops; programmes of suitable relief works are kept up grammes of suntante relief works are respectively to date, the country is mapped into relief circles, reserves of tools and plant are stocked. If the rains fail, policy is at once declared, non-officials are enlisted, revenue suspended and loans for agricultural purposes made. Test works are then opened, and if labour in considerable quantities is attracted, they are converted into relief works on Code principles. Poor houses are opened and gratuitous relief given to the infirm. On the advent of the rains the people are moved from the large works to small works near their villages, liberal advances are made to agriculturists for the purchase of plough, cattle and seed. When the principal autumn crop is ripe, the few re-maining works are gradually closed and gratuitous relief ceases. All this time the medical staff is kept in readiness to deal with cholera, which so often accompanies familie, and ma-laria, which generally supervenes when the rains break. Recent experiences go to show that never again will the Government of India be compelled to distribute relief on the tre-mendous scale demanded in 1899-1900. The high prices of produce have given the cultihigh prices of produce have given the cultivators considerable resources, the extension of irrigation has protected a larger area, and labour has become more mobile, utilising to the full the increasing industrialism of the country. For instance, in 1911 the rains in Gujarat failed completely, yet there was little demand for relief works, and the necessities of the cultivators were rather for food for their cattle then for more or food for for their cattle than for money or food for themselves. Various schemes are now under consideration for the establishment of fodder reserves in the villages.

Famine Protection.

Side by side with the perfection of the machinery for the relief of famine has gone the development of famine protection. The Famine Commission of 1880 stated that the best, and often the only means of securing protection from the extreme effects of famine and drought, are railways and irrigation. These are of two classes, productive and protective. Productive works being estimated to yield profits which will pay interest and sinking fund charges are met from loans; protective works, which do not pay, directly from revenue.

In order to guarantee that there should be continuous progress with protective works, the Famine Insurance Grant was instituted in 1876. It was decided to set apart from the general revenues Rs. 1½ crores annually, or one million sterling. The first charge on this grant is famine relief, the second protective works, the third the avoidance of debt. The chain of protective railways is now pructically complete. Great progress is being made with protective irrigation. Acting on the advice of the Irrigation Commission (qe) an elaborate programme of protective irrigation works is being constructed, particularly in the Bombay Decean—the most famine susceptible district in India—and in the Central Provinces. When these are completed, the shock of drought will be immensely reduced.

The Indian Famine Trust.

Outside the Government programme there is always scope for private philanthropy, especially in the provision of clothes, help for the superior class poor who cannot accept Government aid, and in assisting in the reliabilitation of the cultivators when the rains break. At every great famine large sums have been subscribed, particularly in the United Kingdom, for this purpose, and in 1899-1900 the people of the United States gave generous help. With the idea of providing a permanent famine fund, the Maharaja of Jalpur gave in 1900 a sum of Rs. 16 lakhs, in Government securities, to be held in trust for the relief of the needy in time of famine. This Trust has now swollen in time of famine. This frust has now awould to Rs. 28 lakins, chiefly from gifts by the founder's family. It is vested in trustees drawn from all parts of India, and is freely used in an emergency. Substantial grants were given for the Bombay relief fund in 1911, and for the relief of the distress in Ahmednagar (Bombay relief). The week of the Trust bay Decean) in 1912. The report of the Trust for 1913 states that during the year two appeals for relief were received from the Bombay Committee for the Ahmednagar famine relief in 1913, the first in February and the second in April. In response to the first appeal a grant of Rs. 25,000 was made by the Board. The second appeal had, however, to be rejected in view of the comparatively mild nature of the famine in that area. To meet the first grant the board found it necessary to sell Govern-ment Paper for Rs. 27,000 out of the temporary investment.

The Central Famine Relief Fund Committee of Bombay refunded a further sum of R. 1,504-3-3 out of the grants made to them during 1912. The accumulations of interest realized were invested from time to time during the year as in 1912 and 3½ per cent Government Paper of the nominal value of its. 79,000 was purchased at a cost of 76,300-7-7. These securities as well as those purchased in previous years, reduced by the sales effected during the year, amount to Rs. 7,02,000 and stand in the joint names of the Comptroller-General and the Accountant-General, Bengal, and are available for expenditure.

The Endowment Fund stands at Rs. 28,10,000.

Co-operation in India.

Before the end of the last century the cooperative movement had proved so successful in its attempt at regenerating rural life in countries with such diverse conditions as Germany, Italy, Switzerland, and Ireland, that enthusiasts like Mr. Wolff, social workers like the late General Booth, and Indian adminis-trators like Sir William Wedderburn and Mr. Dupernex were anxious to introduce the movement in India to improve the economic and moral conditions of the Indian ryot. More than sixty per cent. of the vast population of India subsists on agriculture, and the majority of these millions generally live from hand to mouth. The ryot's occupation is healthy and productive, and he occupation is healthy and productive, and not is proverbially honest and straightforward in his deslings, except when years of famine and hardship make him crafty and realcitrant, as in the Satara and Ahmednagar distincts of Bombay Presidency. Owing to his poverty, however, he has to contract for heavy debts to meet occasional expenses for current debts to meet occasional expenses for current seasonal purposes, the improvement of his land or for ceremonial purposes, and he has therefore to seek the assistance of the local money-lender, who is usually a Bania or a Marwari, and is known as the Sowcar or the Mahajan. The rates of interest or the Mahajan. The rates of interest on such advances vary from province to province and even in different parts of a province. The average rate ruling throughout Bombay Presidency is lower than in most other provinces and there are again variations in the rate in the Presidency itself; it is 6 to 12 per cent. in Gujarat and 12 to 24 per cent. in parts of the Deccan, while it rises to the enormous figure of 50 per cent. in several tracts. In addition to charging these accessive tracts. In addition to charging these excessive rates, the Sowcar extorts money under various pretexts and takes from the needy borrower precests and takes from the needy borrower bonds on which heavy stamp duties are payable. One of the chief causes of the type's poverty is, that owing to the absence of security and his short-sightedness due to want of education his short-signreaness due to want of education he does not as a rule collect and lay by his savings, but fritters away his small carnings in extravagant and unproductive expenditure on the purchase of trinkets and ornaments and on marriage and other ceremonies. In some cases, he hoards coins under the ground with the likelihood that on his death the money. with the likelihood that on his death the money is lost to his family for good. This absence of thrift and the habit of dependence in case of thrite and the nable of dependence in case of difficulty on the Government or on the Sow-car are the bane of his lite. A Co-operative Society would change all this, inasmuch as it would provide him with a suitable institution in which to lay by his savings and would teach him the valuable lesson of self-help through the sone of responsibility he would feel in helper the sense of responsibility he would feel in being its member. Thus the chronic poverty and indebtedness of the Indian agriculturist afford a very good field for the introduction of coa very good ment for one inhoducation of co-operative methods, especially as his work is of a productive character likely to enable him to earn a better living under circumstances more favourable than they are at present.

First Scheme Proposed.—The question of introducing co-operation among the agricultural classes in India was first taken up in

the early nineties when Sir W. Wedderburn prepared a scheme of Agricultural Banks which was approved of by Lord Ripon's Government but was not sanctioned by the Secretary of State. The matter was not again taken up until about fifteen years later when Lord Wenlock's Government in Madras deputed one of its ablest officers Mr. F. A. (now Sir Fre-derick) Nicholson to report on the advisability of starting Land Banks in the Presidency for the relief of the agriculturists. Sir Frederick had prepared himself by a thorough study of Agricultural Banks and Co-operative Societies Agricultural Banks and Co-operative Societies and had visited many European countries to see for himself the various developments of the co-operative movement. He was also conversant with the special conditions of the Presidency where there had been in existence an institution called the Niddhi, which corresponded in some respects to the Village Popular Banks in European countries. Though these institutions provided cheen local expital to institutions provided cheap local capital to the agriculturists the spirit of co-operation was lacking in them. This want was supplied in showed to what extent communal life and ideas of local self-government had developed ideas of local self-government has developed in India. Sir Frederick, after throughly going into the conditions of the Presidency, submitted an exhaustive report to Government suggesting that the formation of Co-operative Societies was the only method which could conquer agricultural indebtedness. The report surveyed the growth of the co-operative movement in European countries, the conditions favourable to its development in India, if introduced, and the difficulties to be encountered in introducing it and making it a success here. Finally it contained, for the consideration of Government, a draft Bill for the organisation of Co-operative Societies. Sir Firedrick pleaded for concessions to be given to the Societies such as exemption from the income tax and remission of the stamp duty—as he felt that it would be possible to attract the people to the new movement only if Government showed its active sympathy towards it at the commencenent. He ended with a fervent appeal to the non-official community "to find a Raiffeisen" who would help the ryots of this country in achieving results equal to those obtained by Raiffeisen's noble efforts in Germany. Unfortunated those solutions of the community in the community of the communi fortunately the report was not received favour-ably either by the non-official public or by the Government of Madras, and no action was taken on its suggestions.

commission of 1901.—The next few years saw two of the worst famines that India has ever suffered from, and in 1901, Lord Curzon appointed a Commission to report on the measures to be adopted in future to prevent famines and to protect the ryot from their rawages. The Commission laid stress on the proper working of the Agricultural Loans, and Land Improvement Acts under which takavi advances are made to cultivators. This system was given a long trial in the years previous to the great famines as well as during the ten years succeeding the 1899-1900 famine. But it is acknowledged on all hands that the system has been a failure, as it is clear that it is not

plenty of cheap capital only which will raise the agriculturist and relieve him from his debts, but capital combined with habits of thrift and self-help, which habits it obviously does not inculcate. The Commission also recom-mended that the principal means of resisting famines was by strengthening the moral back-bone of the agriculturist and it expressed its view that the introduction of co-operation in rural areas was one of those means which would improve his moral fibre.

Co-operative Credit Societies Act.—These recommendations induced Lord Curzon to appoint a Committee with Sir Edward Law at its head to investigate the question and a Report, following the original Madras and the committee of th Report in the main, was submitted to Govern-ment. Sir Anthony (now Lord) Macdonell "and others" were at the same time making "and others" were at the same time making experiments on similar lines in the United Provinces and the Punjab with satisfactory results. All these activities, however, took a practical shape only when Lord Curzon, with his zeal for getting things done which made him famous in India, took up the question in all earnestness and his Government introduced in the Supreme Legislative Council a Bill to provide for the constitution and control of Co-operative Societies, The main provisions of the Bill which became the Co-operative Credit Societies' Act (Act X of 1904) were:—

- (1) That any ten persons living in the same village or town or belonging to the same class or caste might be registered as a Co-operative Society for the encouragement of thrift and self-help among the members.
- (2) The main business of a Society was to raise funds by deposits from members and loans from non-members, Government and other co-operative societies, and to distribute money thus obtained by way of loans to members or, with the special permission of the Registrar, to other Co-operative Credit Societies.
- (3) The organization and control of Cooperative Credit Societies in every Presidency were put under the charge of a Special Government Officer called the Registrar of Co-operative Credit Societies.
- (4) The accounts of every Society were to be audited by the Registrar or by a member of his staff called the Auditor of Co-operative Credit Societies.
- (5) The liability of a member of a Society was to be unlimited in the case of a rural society.
- (6) No dividends were to be paid on the profits of a rural society but the profits were to be carried at the end of the year to the Reserve Fund, although when this fund had grown beyond certain limits fixed under the bye-laws, a bonus might be distributed to the members.
- (7) In the case of Urban Societies no dividend was payable until one-fourth of the profits in a year were carried to the Reserve fund.

There were a few glaring defects in the Act and these came to be recognised by the official class as the movement progressed.

Soon after the passing of the Act the local Governments in all the Presidencies and major provinces appointed some of their best officers as Registrars with full powers to organise, being gratuitous, the profits indivisible and the

register and control the management of socities. In the early stages of the working of this Act, Government loans were freely given, especially in the Bombay Presidency, and the response to the organising work of the Registrars was gradual and steady throughout most parts of the country.

Variety of Societies .- There was a great variety of types among the agricultural societies started in different provinces, and some Registrars adopted the "Schulze-Delitzsch," some the "Ratifelson," and some the "Luzratti" "Raiffeisen," and some the "Luzratti" methods in their entirety. The best course, as pointed out by Mr. Wolff, would have been to start a few model societies and leave the movement to develop on the lines which most suited the peculiar requirements and conditions of the country. The commonest type the Panjab and Burma the unlimited liability society with a fee for membership and a small share capital, the share-payments to be made in instalments. In some cases the system insisted on compulsory deposits from members before entitling them to enjoy the full privileges of membership. The system in Bombay, Bengal and the Central Provinces was entirely different, there being no share-capital but only a membership-fee. Part of the working capital was raised by deposits from members and other local sympathisers but the bulk of it was obtained by loans from Government and other Co-operative Societies. In all the Presidencies the Government set apart every year a certain sum to be advanced as loans to newly-started Co-operative Societies usually up to an amount equal to the local deposits raised by them. This practice, though necessary in the initial stages of the movement as stimulating the placing of deposits with societies, in other cases led to crooked means to secure deposits and sometimes worked as a real hardship in poor dis-tricts. In the long run it proved a hindrance to the development of the co-operative spirit by having taught people to expect State aid for every new society. Happily State aid has now become an exception rather the rule and this withdrawal in no way hampers the growth of the movement on account of the rapid increase of financing agencies, District and Provincial Central Banks—and of public confidence in the Societies. For agricultural societies generally the four main sources of income are the share capital in some Provinces, the deposits of members, the loans and deposits from non-members and other Societies; and the percentage of the total working capital represented by each of these heads of income is that indicated below :--

			40
Shares			18
Toons and	Deposits from	n members	10
TYNKIIR WILL	Delionin non	non-nien	hers 11
Do.	do.	other so	leties 58
Do.	do.	Other Ro	
State Ald			8.4
Diamo 114	• • •		

Per cent.

In some Provinces, for example, Punjab and Bombay, the members shares and deposits form more than 25 % of the working capital.

Typical Agricultural Societies.—The Typical Agricultural Society in India corresponds to the "Ralifeisen" society, the management

area of work limited. Usually the Secretary, especially if he is a bona fide member of the Society, gets a monthly pay of Re. 1 to Rs. 5 with a bonus at the end of the year equal to a fourth of the annual profits. In parts of the country there are villages where a few literate men may be found but most of these are hardly fit enough to undertake the responsible work of a Secretary, being practically ignorant of account keeping. In these cases either the village school-master or the village accountant, known on the Bombay side as the Kul-karni or Talati, is appointed to the post with a remuneration a little higher than that paid a remuneration a little higher than that paid to the Secretary who is a bona fide member. In some places, where a suitable person is not available on this low pay, neighbouring societies are grouped together with a whole-time, well-paid, and competent Secretary. This arrangement, which has its advantages, involves the drawback that the outsider working as Secretary does not naturally feel as much interest about the Society's working as a bona fide member does.

Management .- The Managing Committee consists of 5 to 9 intelligent members of the Society, the Chairman being usually the leading person in the village. The daily work of the Society is carried on by the Secretary, but the Managing Committee supervises his work and has alone the power to admit new members,

the Registrar and his staft. The accounts are audited, at least once a year, by the Auditor of Co-operative Societies and inspected from of Co-operative Societies and inspected from time to time by specially appointed Inspectors. The loans are mostly given on the security of two co-mombers, or, rarely, on the simple bond of the borrower, but mortgages are taken occasionally, especially in the case of long-termed loans and loans for the liquidation of old debts. This feature is noteworthy as real credit, on a wholesale scale, is not quite compatible with the true spirit of cooperation. At the Annual General Meeting, held within a month of the close of the held within a month of the close of the Co-operative year, the accounts are sub-mitted, the balance-sheet passed and a new, Managing Committee with, if necessary, a new chairman and secretary is elected. As these meetings are informal other local topics of public utility are sometimes discussed. All the net profits of the Society are annually carried to the Reserve Fund which most societies utilise as an addition to their ordinary working capital. Steps are being taken in some parts of the country to stop this practice and to insist on the Reserve being kept entirely apart from the working capital and invested in Government securities or placed as floating deposit in a reliable Central Bank. As, however, the class of people forming a Co-operative Society have not the reveal the principles Managing Committee supervises his work and has alone the power to admit new members, to receive deposits, arrange for outside loans, grant loans to members and take notice of defaulters. The accounts of the Society are kept by the Secretary and the necessary forms, papers, and books are supplied from the Recistrar's office to simplify the work of the Secretary and the necessary forms, famed by the local governments and are open framed by the local governments and are open to inspection by important local officials and

Progress of the Movement.—The following statement shows the progress in Agricultural Co-operation up to 31st March 1913.

Agricultural Societies.

P.	Province.			Number of Societies.	Number of Members.	Total Working Capital.	Reserve Fund.	Net Profit during the year 1912-13.
Madras Bombay				1,008	64.037	Rs.	Rs.	Rs.
Bengal	• •			420	29,276	44,38,866	****	1,01,965
Dengal	• •	• •	1	1,034	42,455	22,75,154	92,306	60,874
Bihar and	Origan				, 100	22,76,673	2,21,323	1,14,606
United P	rovince	••	•••	544	28,005	8,48,250	69,837	34,452
Punjab	•••	· · ·	••	2,304	89,296	38,64,228	1,77,338	91,406
		• •	••	2,780	1,29,662	97,07,480	2,32,200	6,96,581
Burma				1,043		1 01,01,200	2,02,200	0,50,502
Central P	rovince	S		1,363	26,033	28,38,035	1,53,184	1,31,088
Assam				1,303	22,854	13,48,804	40,218	31.095
Coorg				104	8,833	3,34,750	32,689	8,361
Ajmer	• •		• •	28	0 ***		,	
Mysore	• •	٠.		278	2,556 8,115	80,515	15,101	5,872
Baroda	• •	• •	• •	238	17,290	5,03,205		6,402
	• •	• •	• • •	178	4,966	3,20,194	3,010	13,727
	To	le!	٠.			2,82,480	21,787	22,002
-				11,382	4,67,378	2,90,18,634	10,58,943	13,18,431

The progress of the movement in different provinces varies according to the activity in organisation work as well as the special conditions of each province—the prevailing rates of interest being the most in-portant of these. The only Native States which have introduced legislation similar to the Co-operative Credit Societies' Act in their territories are Mysore and Baroda, and the results of the experiment have been as satisfactory as in British India.

Non-agricultural Societies.—Just as rural societies are the means of resuscitating the agricultural and other smull village industries, a class of societies called the Non-agricultural Societies has grown up in towns and cities for improving the economic and moral condition of artisans and small traders, members of paticular castes and employees of big firms and Government Departments. These societies have usually a limited liability. This is due to the field of their work not being compact as in the case of agricultural societies where every member may be expected to know every other member. Their constitution is based on the 'Schulze Delitzsch' model and in most cases the management is honorary, though sometimes, when the sphere of a society's work is extended, a paid staff is employed. There is in all societies a substantial share capital, payments being made in instalments, and the rest of the working eapital is obtained by local deposits from members and others and loans from Co-operative and Joint Stock Banks. At the end of efficient their metallicular in the state of the capital is obtained by local deposits from members and others and loans from Co-operative and Joint Stock Banks. At the end of efficient to of every year one-fourth of the net profits must be carried to the Reserve Fund and the balance

There are a few serious drawbacks in the working of these societies and complaints about them are noticeable in many of the Registrars' annual reports. The most serious of these com-plaints are that the spirit of co-operation is lacking in many Non-agricultural Societies, that there is too great a desire to go in for profitand dividends and a growing tendency to make the societies close preserves once they have started running on profitable lines. The rates of interest on loans are at times higher than they ought to be, and the men at the head of the societies are loth to admit new members who are in need of loans for fear of the latter cutting down the profits, Societies of employees of firms, railway companies and Government offices and societies for the redemption of debts of men of the so-called depressed classes, however, work on sounder lines and provide good instance of the success of Non-agricultural Cooperation. A few Mill hands' Societies have been started in the Bombay Presidency but with these the spread of co-operation among the labouring class in industrial cities ends. There are, again, a few societies, on the lines of village Popular Banks of Europe to assist small Non-agricultural traders and artisans and some efficient societies comprising members of a particular community. Some of these Non-agricultural Societies, after meeting the needs of their members, have large balances on hand, which they are allowed, with the previous sanction of the Registrar, to advance to smaller

Progress of Non-agricultural Societies.—The following statement shows the progress of Non-agricultural Co-operation up to 31st March 1913:—

Non-Agricultural Societies.

]	Provinc	e.		Number of Societies.	Number of Members.	Total Working Capital.	Reserve Fund.	Not Profit during the year 1912-13.		
Madras		•••		59	17,841	Rs. 10,70,258	Rs. 20,990	Rs. 53,548		
Bombay Bengal	::			102 68	17,428 11,962	13,58,874 95,858	48,536 42,401	64,721 35,933		
Bihar & C	Orissa			41	1,983	77,007	5,941	5,475		
United P	rovince	9		175	4,746	3,67,718	12,446	9,179		
Punjab				31	2,973	2,54,509	6,952	10,786		
Burma				40	2,624	5,32,763	39,614	29,036		
Central P Assam	rovine	es		51 15	1,439 1,733	85,680 1,80,251	11,029 10,404	6,381 8,760		
Coorg		•••					• • • •	• • • • •		
Ajmere Mysore		::	 		13,188	7,72,703	26,786	43,431		
Baroda	••			8	461	46,238	117	040		
	T	OTAL		691	76,378	48,41,850	2,25,256	2,64,149		

LOBIN AUVAINCEU.—In the total amount of loans advanced to members by Agricultural and Non-agricultural Societies during the year 1911-12 were Rs. 2,15,97,775 and Rs. 5,44,479, respectively, as against a total of less than Rs. 25 lakhs issued by both these classes of societies in the year 1906-7. Some of the Provincial Beports for the year 1911-12 analyse the purposes for which loans are usually advanced, and it is interesting to observe from the Madras Report, which may be taken as typical, that 38:13 per cent. and 41:25 per cent. of the total amount of loans advanced by the Non-Agricultural and Agricultural Societies, respectively, during the year 1911-12 were for paying off prior debts. Some loans have been advanced for the redemption of the past debts of members, but as the movement progresses, it is being more and more realized that the early clearance of a member from previous debts after his admission to a Society is very desirable and greater attention is being bestowed by the Registrars on this question. Only 12 77 per cent. and 2.72 per cent., respectively, of the total amounts of loans made by Non-Agricultural and Agriculturals were for nonproductive purposes, including marriage and other ceremonies and litigation The percentages of loans for productive purposes amounted to 49 10 and 56 02 for the two classes of societies respectively, thus showing that if we include loans for the liquidation of old debts, the total amount utilised in productive purposes works out at about 87 per cent. in the case of Non-agricultural and 97 per cent. in that of Agricultural on the loans advanced. These loans include those advanced for cultivation expenses, purchase of live-stock, fodder, seed, manure and agricultural implements, for land improvement and sinking of wells, for purchase of new lands and for mainwells, for purchase of new manus and not make tenance in times of scarcity in the case of Agricultural societies, and those for purchase of raw materials for industries, for trade, for house-building and for food and other necessaries of life in the case of the Non-agriculturals. The rates of interest on loans by primary societies to their members vary from §§ % in Bombay and Madras to 12% in the Central Provinces and the Punjab, 15% in the United Provinces and Burma and 18½% in Bengal. The terms of the loans are one year or less on those for current needs, whether for agriculture or petty trade, and upto 5 years or so on loans for the liquidation of old debts of for land improvement. The societies are saries of life in the case of the Non-agriculturals. so on loans for the augmentation of the large or for land improvement. The societies are mostly punctual in their repayments to the Government or the Central Banks just as the members of the societies are regular in repaying their loans to the societies.

Financing Agricultural Societies.—As soon as the initial stage of the movement had passed, a very urgent problem faced the co-operators, This was to finance the agricultural societies that This was to maintee the agricultural societies that were growing in all directions. And the problem was solved in different provinces according to their special conditions and the stages of

Loans Advanced.-The total amount of societies within their districts, and in some places Joint Stock Banks were persuaded to make advances direct to agricultural societies or through the medium of District Central Banks. A large number of prosperous Non-agricultural A large number of prosperous Non-agricultural Societies, as stated above, could afford to lend to agricultural societies. Government aid was also freely given and the advances under this head rose from Rs. 2,84,738 in 1908-7 to Rs. 9,34,663 in 1911-12. With the progress of the movement, however, this aid was discontinued and the only province which continued the practice was Bombay—lending Rs. 2,57,439 in 1911-12. An important cause which led to the continuance of State aid in Bombay was the paucity of Central Banks in the Presidency and the refusal of the Commercial Banks, though constantly approached, to help agricultural societies. When, owing to this unwillingness of the ordinary banks to participate in the movement, the Registrar found it extremely difficult to have even the small number of societies in the Presidency properly financed, Sir Vithaldas Thackersey and the Hon'ble Mr. Lalubhai Samaldas submitted to Government a scheme to establish a Central Bank for the Presidency, provided certain assistance was promised by Government. As a result of the negotiations that followed, the Bombay Central Co-operative Bank was founded in October, 1911, with a share capital of 7 lakhs and with power to issue debentures at 4 per cent. up to three times the amount of the paid-up share capital, the Government guaranteeing payment of interest on the debentures in case of default. The Bank was authorised to lend only to registered Co-operative Societies in the Presidency with the previous sanction of the Registrar in the case of every individual loan. As an indirect result of the establishment of the Bombay Central Bank a number of District Banks have been started and the Presidency is now as well provided in this respect as any other Province.

Bombay and Madras Banks.—The chief point of distinction between the Bombay and the Madras Central Banks—which are both run more on commercial than on pure co-operative lines—is that, in the case of the Madras Bank, there are no restrictions on the rate of interest on loans and on the dividends, as there are in that of the Bombay Central Bank, where restrictions in these respects are imposed by the Bank's agreement with the Secretary of State. Again in the Bombay Central Bank the majority of shareholders are either capitalists or persons not much interested in co-operation, whereas the Madras Bank has fortunately attracted more persons who are interested in the movement. Another drawback of these two institutions is that neither of them is a Co-operative Central Bank in the true sense of the term as there are no District Cen-tral or Agricultural Societies that are members of, or affiliated to it and therefore interested in their success. A Provincial Bank with central societies affiliated to it is in existence in Upper to their special conditions and the stages of development the movement had attained therein. In Madras a Central Bank, which leat to Co-operative Societies in the Presidency, was started without Government aid as early as in 1907. In other Presidencies, District Banks in 1907. In other Presidencies, District Banks in the Presidency of the Central Presidency of the Province and the Commercial Banks in Merce established, gradually finding money for Allahabad and elsewhere, It has however worked well and its success led to the establishment of a Provincial Bank in Behar and Orissa. A scheme has also been set afoot for having a similar Provincial Bank in Bengal.

Number of Central Banks.—The following statement shows the number and the constitution of the Central Banks in the country up to 31st March 1913.

Central Societies.

Province.				Number of Societies.	Number of Members.	Total Working Capital.	Reserve Fund.	Net Profit during the year 1012-13.
						Rs.	Rs.	Re.
Madras	.:			11	940	40,39,646	74,027	76,60 5
Bombay		٠.		4	1,205	13,31,172	1,471	15,318
Bengal				17	2,563	13,74,303	17,885	40,553
Bihar & O	rissa.			8	685	4,46,955	6,346	11,459
United Pro	ovinces			51	14,791	44,35,676	2, 37,222	1,33,948
Punjab				34	2,135	28,47,315	19,421	24,850
Burma		٠.		72	2,440	21,93,726	14,682	45,685
Central Pr	ovinces	••		35	3,903	20,08,906	8,003	40,630
Assam				9	379	1,41,097	4,109	4,621
Coorg		••						
Ajmer				3	496	4.92,244	2,231	11,384
Mysore				4	205	1,96,442	804	5,364
Baroda	••	••		3	38	7,894	67	376
	То	FAL		251	20,780	1,05,15,376	3,86,268	4,20,703

Creation of Unions.—The ordinary types of Central Banks only finance agricultural societies but unless they form a part of the co-operative tree it is felt that the movement will not progress on real co-operative lines. There is also the need for agencies which would not only provide funds for societies but also supervise over their working, inspect the affiliated so-cieties and even take up the entire educational work now done by the Registrars and act as local organising centres. They may also be expected to supplement, in lieu of a small fee to be paid by the societies, the auditing work done by the Registrars who now find it very difficult, owing to the increase in the number of societies, to cope with this work with the limited staff at their disposal. This need has been supplied to some extent by the creation of Unions—bodies with limited liability the majority of whose members are registered societies with, in some cases, a small number of

Unions. The management of the Union is in the hands of a Board of Directors, or Managing Committee, consisting partly of some representatives of the ordinary sharcholders, where there are any, and partly of delegates elected by the societies which are members of the Union. Usually a Union is only possible for the whole of a district, as the personnel necessary for its successful working would be difficult to secure in a smaller area. However, in different parts of the country we notice the existence of Unions for Talukas, we notice the existence of Unions for Talukas, and occasionally for smaller tracts comprising groups of societies. The creation of such bodies has been facilitated by the amended Co-operative Societies' Act, which came into force in 1912. Previous to the passing of this Act, Unions were started unsystematically in various Provinces according to local ideas, but their formation has been made uniform by the new Act insisting on a limited liability to the creat of a society of which a momber in societies with, in some cases, a small number of well-to-do and public spirited persons as share-bolders to supply the necessary educative force and arrange for the proper financing of the Unions, having societies affiliated to them.

The following Statement exhibits the position of Unions in the various Presidencies:-

Unions.

					Number o	Number of		
	Province.			Central Banking.	Supervising.	Affiliated Societies.		
Madras	٠					1	4	93
Bombay						2	1	1
Bengal					٠.	15	••••	602
Behar and	Orissa					8	••••	343
United Prov	vinces		••		٠.	13		2,206
Punjab .			••			17		1,754
Burma					٠.		67	1,679
Central Pro	vinces				٠.		- 9	1,424
Assam			٠,	•.•		4	3	79
Coorg		••		••		·		
Ajmer		••	:.			3		278
Mysore	• ••	••		• ••		2		50
Baroda	••			••		1	1	
	•			TOTAL		66	85	8,509

It may be mentioned that in most of the Provinces the work of organising and looking after the societies is done by the Registrar with the help of his assistants and a few honorary non-official workers. The number of these honorary workers is steadily increasing and in some Presidencies there is a band of specially appointed Honorary Organisers who regularly assist the Registrars. There is, however, scope for organisation Societies on the lines of similar institutions in England and Ireland and if the District Unions are affiliated to a real Co-operative Provincial Bank it may be possible to have an Organisation Department of the Bank with branches in the districts.

New Act Introduced.—As co-operation progressed in the country defects were noticed in the Co-operative Credit Societies' Act and these were brought to the notice of Government by the Provincial Conferences held under the auspices of Local Governments in various presidencies as well as by the Annual Conferences of the Registrars. The Government of India, recognising the need for removing these defects, decided to amend the old Act and a Bill embodying the essential alterations proposed was introduced in the Imperial Legislative Council and after a few amendments it emerged from the Council as the Co-operative Societies, Act (II of 1912) replacing Act X of 1904. The outstanding features of the new Act were as follows:—

(a) It authorised the formation of societies for purposes other than credit, which was possible under the old Act only with the special permission of the Local Government. This extension of co-operation to purposes other than credit marks an important stage in its development in India.

(b) It defined in precise terms the objects for which Co-operative Societies could be organised.

(c) It removed the arbitrary division of societies into Rural and Urban.

(a) It facilitated the growth of sound Unions by insisting on a limited liability by means of a special Clause about the registration of society one of whose members is a registered society.

(e) It empowered the Local Governments to frame rules and alter bye-laws so as to put restrictions on the dividends to be declared by societies and allowed them the discretion to sanction distribution of profits in the case of unlimited liability societies to their members.

(f) It allowed societies with the permission of the Registrar to contribute from their net profits, after the Reserve Fund was provided for, amounts up to 10 per cent. of their remaining profits to any charitable purpose as defined in the Charitable Endowments Act. This kept the movement in touch with local

life by permitting societies to lend assistance | Societies for the Co-operative purchase and to local educational and charitable institutions.

(g) It prohibited the use of the word "Cooperative" as part of the title of any business concern except a registered society.

Store Societies.—After the passing of this Act the application of co-operation to purposes other than credit was greatly extended, but as yet there has been no general demand for productive and distributive co-operative societies as is noticeable in England and elsewhere. At the end of the year 1912-14 there were only 14 store societies in the country, the Madras Presidency claiming 9 of these with a membership of 3,846 and a working capital of Rs. 1,64,546. The United Provinces had two, Bengal also had two, and Assam one. An important industry which flourished in India before the introduction of machinery was the Handloom Weaving Industry, and cforts have been made to revive it by the formation of productive co-operative societies of handloom weavers. The weavers societies are not merely Credit Societies but undertake the purchase of good yarn for members and in some cases have store branches to sell the cloth produced by them. They have also been instrumental, in Bombay, in introducing improved looms and methods amongst the conservative weaving classes. The total number of these societies in the country is 32, Bombay having 19, Bengal 2, Madras 1, the United Provinces 2, the Central Provinces 6, and Assam 2. The other Productive Societies are those for "gaolees" or milkmen, dyers, basket and brass workers in Central Provinces and "chhamars" "dhors" in Bombay. There are also a building and oil-producing society in Madras, a zemindari society in Bengal, and a Sugar Factory worked on co-operative lines in Benarcs. There are a few dairy societies—one a wellmanaged society in Benares and another in Bengal, one in Assam. Burma possesses a novel type of societies for the sale of paddy, having 9 such societies with a membership of 712. It is also a pioneer in the matter of Co-operative Insurance and has 57 Cattle Insurance Societies with a membership of 471. Six Cattle Insurance Societies have also been started in Coorg. There are two manure purchasing societies in Bengal and 3 grain banks in Madras and 2 in Bombay.

Agricultural Societies .- These have until recently been engaged only in supplying cheap credit to their members but there are various other fields of work to which they may extend their activities. Grain Banks may be started with advantage, receiving deposits in kind and allowing these to accumulate to be sold at profitable rates or distributed to the members in times of scarcity. Such Banks have been started in Bombay and Madras, Societies on a similar principle for the storage of fodder may assist in solving what is likely to become in the near future an important problem in rural economy. Another direction in which the Co-operative principle is being adopted is the starting of societies for purchase of and distribution among members of good unadulterated seed. A number of small seed societies have been organized in the Bombay Presidency, attention of Government and of the people.

sale of manure will also prove a great boon. Mauure stores have been established in Madras, Bengal and Bombay. Government has of late made attempts to bring the Co-operative movement in close touch with the Agricultural Department. Co-operation has already been successful to a considerable extent in redeeming the chronic indebtedness of the agriculturist but if the improvement in his economic condition is to be permanent it is essential that he should be prevailed upon to adopt improved methods of production. The Agri-cultural Department does undertake propagandist work with this object, but its efforts have not proved as successful as they ought to be. A Co-operative Society provides ought to be. A Co-operative observe provides just the effective agency to reach the agriculturists, and in many places societies have been the means of bringing home to the agriculturist the need for improved methods by distributing leaflets issued by the Agricultural Department and District Agricultural Associations to which they are sometimes affillated. The Department has also used the societies as centres for delivering lectures and for holding demonstration and shows. As a result, a few societies have been enterprising enough to purchase up-to-date agricultural implements recommended by the Department and to use the proper manures and the certified varieties of seeds. If the reorganisation of Indian agriculture grows apace with the spread of co-operation there is no doubt that rural India will soon present a happier outlook than it does at present.

Since the establishment of factories in India an important labouring class has grown up in big industrial towns and this class is as deeply indebted and as badly remunerated as the agriculturists. Co-operation, if introduced among people of this class, would open a new life to them besides being the means of their economic regeneration. No serious efforts have hitherto been made in this direction, as Urban co-operation has been confined more or less to middle class people. A few Mill Hands' Societies have been organised in Bombay but these should be multiplied a hundredfold among all classes of factory labourers, so that if successful, they may become the forerunners of a healthy, Trade Unionism in India.

In July 1914, the Government of India issued a lengthy Resolution on Co-operation in India, surveying its progress in the country during the last ten years. Though the Resolution is optimistic in tone, it criticizes impartially the drawbacks of this new movement in India. It particularly emphasises the urgency of a proper financial organisation of societies and states that "the responsibilities organization of central and provincial banks are of a serious character. To supervise the relations of such institutions with the money market on the one hand, and with their constituent societies on the other, is a task which requires a considerable degree of technical skill, and the administration of the whole co-operative movement in the stages above that of the individual society is a matter which must in the immediate future engage the serious

That this important question does engage the serious attention of Government is evident from the fact that in October, the Imperial Government appointed a strong Committee, under Sir Edward Maclagan, to examine and report on the financial organization of the co-operative movement. It is to be hoped that the efforts of the Government of India will succeed in strengthening the position and resources of Co-operative Societies.

Defective Education.—It is the experience of those who have to deal with the organisation and management of Rural societies that the sad state of education among the agricultural population is not only a real hindrance to their development but seriously endangers their very existence. There are villages where no schools exist and where there is hardly one individual who can read and write tolerably well. In most villages a few literate people can be found and it is these that form the nuclei of co-operative societies. Their ignorance in other matters is often so abysmal that it is hardly possible to instil into their minds even elementary notions of co-operation. Happily there are different types of villages where about 30 to 40 per cent. of the population are able to read and write and where one finds a dozen intelligent men who can understand the elements of co-operation. In a large number of societies, as has been pointed a large number of societies, as has been pointed out previously, the secretaries who are the real managers are not bona fide members. This, it may be urged, is contrary to a fundamental principle of co-operation that there should be internal management of the business, but it can scarcely be helped in a country ness, out it can scarcery be neighbor in a country where there are only a few among the total village population able to keep their own accounts much less to undertake the management of a society. It is true that co-operation provides a higher type of education, but when the ground work itself is lacking it is impossible to brillau the to build up the superstructure.

elements of education to enable them to put their signatures on the society's papers, and to take a lively interest in the internal work of their societies. There are a few cases where a society has set its face against drunkenness, expelled members notorious for their intemperate habits and has in other ways worked for a better morality by insisting a high standard of life. Societies have occasionally condemned excessive and even heavy expendi-ture on marriages, and it is an encouraging fact that the percentage of loans advanced for this purpose is higher in the case of Urban than of Rural Societies. Liquidation of old debts again has been possible to a great extent and many an agriculturist who was formerly in a state of chronic indebtedness has been relieved of all his old debts and freed from the necessity of incurring new ones. Credit has been much cheapened and it is now possible for the agriculturist to borrow at 9 per cent. what he could not borrow at less than 20 per cent. formerly. The viliage rates of interest have gone down considerably and the Sowcar is in most places not the terror and the force that he was. Business habits have been in-culcated with the beneficial result that the agriculturist has learnt to conduct his own work more efficiently. Thrift has been en-couraged and the value of savings better ap-preciated Participation in the management of societies has brought home to the members the important lessons of self-help; but the most important achievement of co-operation has been the instilling of a sense of communal life—a feeling of "all for each and each for life—a feeling of "all for each and each for all" amongst the members of a co-operative body.

If these signs become as common as they are now rare, and if, over and above the economic benefits achieved by it, co-operation succeeds in its true aim—the building up of the character of the people and the promotion of their welfare by the inculcation of the ideas Social Reform.—Co-operation has, in some places, stimulated the desire for education and members of rural societies have been known even at advanced ages to receive the far off.

WOMAN SUFFRAGE.

The movement in favour of woman suffrage | received and acknowledged by Mr. A. Priestly; as hitherto received little support in India. Alliance Bank of Simla, Mussorie, who has rend Central Hotal Mussorie in insurant consented to act as treasurer. The movement in favour of woman suffrage has hitherto received little support in India. On July 29, 1913, a meeting was held at the Grand Central Hotel, Mussorie, to inaugurate an All-India Brunch of the National League for Opposite Woman Suffrage. All wishing to join the All-India Branch of the National League are requested to send their names and subscriptions from Purper page 2012. League are requested to send their names and subscriptions (one rupee per annum) to Mrs. Suffrage S. Ellys Walton, Couper Road, Lucknow, or to the General Secretary, Miss De Gruyther, Weatherley Zephyr Lodge, Mussorie. Donations will be Treasurer.

Shortly after the formation of the branch society recorded above, a meeting was held in the same hotel at Mussorie to inaugurate a branch of the National Union of Women's Suffrage Societies. Mrs. Hallowes was elected president; Mrs. C. Mine, Vice-president; Miss Weatherley, Hon. Secy.; and Miss Michell, Hon.

The Tropical Diseases.

BY MAJOR GORDON TUCKER, I.M.S.

Professor of Medicine, Grant Medical College,

If the principal scourges of the European in | digestion. A blast of cold air coming on the the tropics, namely, malaria, dysentery, and typhoid, could be removed, there would still remain the strain of climate as a source of disease and a cause of deteriorated health, not amounting for a time to actual illness, but eventually showing its effects in lessened resistance to the wear and tear of life, premature senility of the tissues, and diminished fertility. This results mainly from the transfer to a hot climate of an individual whose heat-regulating mechanism has previously adapted itself to conditions where the body temperature has to be maintained some 40° above that of the surrounding air. On arrival in a country where the temperature of the air is perhaps the same as that of the living tissues, it is obvious that there must be a sudden and violent disturbance of such mechanism. This mechanism is very complex and exists for the purpose of striking a balance between the heat formed by the changes in the tissues, and the heat lost from the lungs and by radiation from the surface of the skin. But beyond this there is no doubt a regulation of the temperature dependent in some way on the normal working of the central nervous system, as is shown by the remarkable alteration which may take place in the temperature of parts of the body when the brain has been subjected to some gross lesion.

In the tropics the amount of carbonic acid given off by the lungs is reduced about twenty given off by the lungs is reduced about twenty per cent., the number of respirations per minute is reduced, and there is lessened activity of the lungs. This shows that there is less tissue change (or combustion) going on in the tissues, that is to say, diminished heat-production. The same is shown in the diminished amount The same is snown in the diminished amount of work done by the kidneys. As regards heat-loss, this is almost entirely effected through the skin, 70 per cent. of the heat of the body in temperate climates going off by radiation and conduction, and 15 per cent. by evaporation. When however the temperature of the tropical atmosphere rises, the loss by radiation falls to nothing, and all the heat has to be dissipated by evaporation from the surface. Consequently, practically all the work of losing heat, which strikes the balance with the heat production and maintains the body at a normal temperature, falls upon the sweat glands which are therefore in a state of continued and abnormal activity. In hot dry atmospheres the water evaporates as soon as formed, but in conditions of heat with great humidity, such as obtain during the worst months of the year as obtain during the worst months of the year in Calcutta and Bombay, the skin is kept con-in Calcutta and Bombay, the skin is kept con-tinually moist by trickling beads of perspira-tion. Herein lies the comfort and healthiness is the site of intense iteling. The trouble tion. Herein lies the comfort and healthiness is believed to result from the proliferation of the believed to result from the proliferation of the prolife of the punkah which removes excessive mois-ture. But it is obvious that in order to keep the temperature of the body normal there must be increased flow of blood to the surface of the body, a state quite different from the conditions under which the organs of the European have been trained. This favours those sudden chills to which Europeans are so subsudden chills to which Europeans are so subspect, and acts prejudicially to the working of the internal organs, especially those subserving (it is a serious condition in young infants, as

congested skin in the early hours of the morning must chill the surface, causing a sudden contraction of the cutaneous vessels, and tending to produce a rapid flux of blood to the deeper parts, inducing a congestion of the mucous membrane of the bowels, and from that re-sults the "morning diarrhoa" which is occasionally severe and exhausting. Such a state of affairs may become chronic, and so lead up to one of the climatic diarrhoas which are a frequent cause of invaliding. Moreover a sudden congestion of the liver and spleen in a person who has had malaria, may be fol-lowed by a malarial hepatitis or splenitis, and repeated attacks of these conditions may resuit in permanent enlargement of these organs; or at any rate, in the case of the stomach and liver, to derangement of function and so to chronic dyspensia or insufficient manufacture of bile.

Again, the chronic hyperæmia of the skin favours the development of fungi and microbes. Hence the existence of ringworm of various kinds from which Europeans frequently suffer. There are microbes which, even in temperate climates, are found within the layers of the skin or on the surface. On account of the chronic congestion and moisture of the skin in tropical climates these microbes not only become abundant but virulent, and hence the Peters which are often accident effliction in the Boils which are often a serious affliction in the hot months. We frequently come across most distressing cases where the patient is covered from head to foot with them. When the boil comes to a head and softens it is easy to afford relief by opening each, and so relieving tension: but the worst kind is the "blind boil" which out the worst kind is the "Dind boil" Which forms as a hard red mass, intensely painful and not coming to a head, and here an incision gives little relief. Until lately these cases were very unsatisfactory to treat, and patient would recover after weeks of pain and much reduced in health. Fortunately we have in the vaccine treatment a most successful method, the vaccine would be in the state of the second the vaccine used being either a stock one and generally acting like magie: or, in a small percentage of cases requiring to be made from the boils themselves. In still other cases the infection of the skin causes the formation of CARBUNCLES, which are more serious but require treatment on the same lines.

Another more common condition resulting from the congestion of the skin is PRICKLY HEAT. This results from acute inflammation about the sweat glands and distention of their a particular microbe in the skin, which alters the reaction of the perspiration. Be this as it may, inoculation of the skin is likely to take

the irritation prevents sleep, interferes with digestion and so promotes diarrhoza, so that this simple malady may be the starting point of a dangerous illness. Flannel next to the of a dangerous illness. Flannel next to the skin should be avoided in the hot weather as it is so liable to start the irritation. A good lotion consists of two teaspoonfuls of Eau-decologne in ten ounces of a 1 in 2000 solution of perchloride of mercury, dabbed on the skin and allowed to dry: followed by dusting with equal parts of boric acid powder and talc.

To avoid the heat the European flies to the punkah. The electric punkah has been one of the greatest blessings introduced during recent years into Indian towns as its use insures a good night's rest in place of the weary hours of sleeplessness which formerly out the temper and the mental energy of the European during the hottest months. Still this blessing is not without its attendant dangers. Most common are attacks of muscular rheumatism, sudden internal chills causing diarrhea, attacks of colic, ordinary nasal catarrh, and sometimes bronchitis or pneu-monia. The electric punkah does away with the mosquito curtain, which does not conduce to the free circulation of air, and gives good ventilation in its place.

Finally, we have the effects of a continued high temperature on the working of the nervous system. As has been remarked by the late
Lt.-Col. Crombie, I.M.S., (in a valuable paper
on "The measure of physical fitness for life in the Tropics," to which the writer is much indebted), "In the tropics there is going on continually and unconsciously a tax on the nervous system which is absent in temperate climates. The nervous system, especially those parts of it which regulate the temperature of the body, are always on the strain, and the result is that in time it suffers from more or less exhaustion." The mean temperature of a European in India is always about half a degree higher than it is in a temperate climate, and it may be raised to 99° or 100° after severe and it may be raised to 95° or 100° autor severe bodily exertion. When, under the strain of a severe hot moist and sultry season, the heat-costs, thou centre gives out, or as it is said is "inhibited," regard for we have all the serious phenomena of HEAT state of the STROKE. But in the less marked but long supervised.

drawn out process of nervous exhaustion we have the common tropical effect of deficient mental energy, generally commencing with unnatural drowsiness or loss of appetite and a yearning for stimulants, which culminate in that lowering of nerve potential which we know so well as NEURASTHENIA. This nervous disturbance due to climate is likely to be most marked, as Crombie points out, in two classes of persons, namely those who suffer from obesity, and those who are members of families which may be designated as neuropathic," that is whose nervous systems are naturally unstable. To these may be added persons with naturally defective digestion may be designated and those who have a predisposition to gout.

To sum up, it will be seen that the effects of long residence in the tropics are real and permanent, not only in the direction of lowered bodily health, but in undue wear of the nervous system, which may not only be apparent during active service in duties involving strain, anxiety or responsibility, but also after retirement; so that the chances of longevity of the retired Indian official are not up to the normal, and the "extra" which the Insurance Office puts on such lives is not only to cover the risks incidental to life in the tropics, but also the diminished vitality of those who have survived to enjoy their pension and ease.

But there are other Indian risks, and these are most likely to affect travellers, due to the effects of heat on food. Microbes multiply with profusion in milk, and decomposition is liable to occur in meat within a very short time after killing. Milk should always be boiled; and owing to the dirt in railway dining-rooms, and in many hotels, and the carelessness of the lower type of native servant employed therein, it would be better to rely on tinned milk or on a supply of Horlick's milk tablets, when travelling long journeys by rail and in the smaller towns. Beef should never be eaten underdone, as it is a prolific source of tape-worm in India. There is also liability to con-tamination of food by flies and dust. Indian cooks, though among the best, have little regard for sanitation, and consequently the state of the cook-house should be carefully

MALARIA.

Attacks of malaria, dysentery, and enteric represent the principal risks to the European blood, and lives at their expense. It has travelling in India. Malaria is the commonest two life-cycles, one within the blood of the traveiling in India. Majaria is the commonest cause of fever in the tropies and subtropies, but the risks therefrom have been greatly diminished by our complete knowledge of its causation which now permits an intelligent prophylaxis, that is, taking adequate precautions against infection. The connection of certain kinds of fever with marshy sails of certain kinds of fever with marshy soils of certain kinds of level with maising some has been recognised from ancient times, whence its old name of paludism; and the word "ma-laria" itself implies the belief in the existence of an emanation of poisonous air from the water-logged ground. It is now realised that the poison is conveyed solely by mosquitoes, and by the anopheline species. There are only a few of the many anophelines which carry malaria, but all are to be regarded as dangerous.

The parasite of malaria is a delicate jelly-

human host (endogenous and asexual), the other in the stomach and tissues of the mosquito (exogenous and sexual). But the first part of the sexual cycle is prepared for in the blood of the human host.

If the blood of a patient be taken about an hour before the occurrence of the "rigor," (the shivering-fit which marks the commencement of the attack), and examined in a thin film under a high power of the microscope, some of the red corpuscles will be found to contain bodies composed of delicate proto-plasm showing minute granules of dark plg-ment in their substance. These bodies are the parasites. The granules represent the result of the destruction by the parasite of the red colouring-matter of the blood-cell. The

latter consequently appears paler than natural come collected within the substance of the and is enlarged. In the parasite of the so-salivary glands, and ultimately make their called benign tertian fever, if the blood be way to the base of the proboscls. On such and is enlarged. In the parasite of the so-called benign tertian fever, if the blood be again examined when the rigor is commencing, the little mass of jelly is found to have divided into from twelve to twenty minute spheres all held together by the remains of the de-generated red cell, and with minute masses of pigment in the centre. Later the group of spherules has burst through the envelope that held them, and has appeared free in the bloodfluid. Many of these free spherules are attacked and absorbed by the phagocytes, but those which escape destruction effect their entrance into other red blood cells and go through the same process of sexual division, taking forty-eight hours for the process. On the time taken for this cycle to occur depends the periodicity of the fever, the attack appearing every third day, whence the name tertian fever. Another variety of malarial parasite, not very common in India, takes seventy-two hours to complete its cycle, hence called the "quartan" variety.

There is also a third kind of parasite called the "malignant tertian," called by the Italians the aestivo-autumnal parasite, which also takes forty-eight hours to go through its cycle, but which gives rise to a more irregular fever, and has more pernicious effects on the system and is also liable to produce severe nervous symptoms, such as unconsciousness, often ending in death with very high fever. Each kind of parasite has its special characteristics which can be observed by microscopical examination. Consequently expert examination of the blood is always advisable in cases of fever, not only to show that malaria is present, but also to distinguish the particular kind which is causing the trouble.

Within the blood there also appears the first stage of the sexual life of the parasite in the shape of male and female elements, which result from some of the parasites which do not undergo the usual segmentation des-cribed above, and which exist for the purpose of allowing further development in the non-human host, which in the case of this parti-cular parasite is the mosquito. These sexual elements are especially in evidence in the blood of cases of the pernicious variety of malaria, in the form of crescentic bodies which obtain considerable protection from the phagocytes, and many therefore persist for some time in such blood. "Crescents" appear only in malignant fevers, and persons who harbour them are of course a danger to the community, inasmuch as the mosquitoes of the locality are infected from them, thus rendering such village or street unhealthy from malaria.

The sexual elements of the malarial parasites when taken into the stomach of the mosquito which sucks up the blood of its victim, undergo certain changes, the male element extruding flagellate or hair-like processes which fertilise the female. The latter there-upon changes into a body endowed with the upon changes into a body endowed with the property of locomotion, which makes its way less into the coats of the stomach of the insect, and becomes divided up into a vast number of minute cysts, each of the latter becoming packed with minute rod-like bodies. The cysts rupture into the body-cavity of the cysts rupture into the body-cavity of the the the stage of perspiration has been reached, ten mosquito, and the rods, thereby set free, be-

an infected mosquito pushing its proboscis into the human skin when it wishes to draw blood some of the rods are injected into the blood stream. They then enter red blood corpuscles and go through the various cycles described above.

From three to five days, or as long as a fort-night, after being bitten by such a mosquito the patient has an attack of fever, sometimes preceded by pains in the limbs, headache, and malaise. This is soon succeeded by a feeling of intense chill, perhaps associated with feeling of intense chill, perhaps associated with vomiting. The skin becomes cold and blue, the shivering is excessive and prolonged, constituting the "rigor" stage. In this state the patient is in great distress, and obtains little sense of relief from the blankets which the state of the s he heaps up over himself. Although the surface of the body is very cold, the temperature, taken in the arm-pit or mouth, shows a rise to 103° or higher. In a quarter of an hour or more the "hot stage" comes on, the face becoming flushed, the surface of the body red and warm, the small quick pulse becoming full and bounding, and perhaps the patient complains of throbbing headache. He remains thus for a few hours and then occurs the "sweating stage," perspiration breaking out about the head and face, and soon extending to the whole body. Great relief is experienced when this is entered on, and is likely to be followed by a refreshing sleep. During the panower by a refreshing steep. During the paroxysm the spleen is often enlarged and may be the seat of considerable pain. There is also often troublesome cough from a concomitant bronchitis. With repeated attacks the enlargement of the spleen is hable to become eniargement or the spicer is made to become permanent, the organ coming to form a large heavy tumour with special characteristics, the so-called "ague cake," which is common among the children of malarious districts, Europeans who suffer from severe or repeated malaria are likely to suffer from permanent ill-health in the shape of amemia, dyspopsia, or easily-induced mental fatigue.

Treatment.

The traveller in India should endeavour to guard himself against the bites of mosquitoes. This can be done to a great extent by the use of mosquito curtains, the mosquito seeking the blood of its victim mainly at night. But the pioon of its victim mainly at hight. But when travelling by train protection is difficult. There are some odours which mosquitoes appear to dislike. Sprinkling the pillows with lavender water is sometimes efficacious, or smearing the hands with lenon-grass of Camps should not be pitched in the neighbourness. hood of native villages, if it can be avoided.

Travellers should provide themselves with
thermometer and a supply of quining tabloids.

During the cold stage the patient should be well covered, and hot fluids administered, un-less vomiting is present. Quinine should not be taken in this stage as it increases the dis-

in five grain doses every six hours until the temperature becomes normal. Thereafter the drug should be continued for a few days in doses of five grains twice a day. This is calculated to ward off a second attack, or, at any rate, to reduce its severity and prevent a third. If there is vomiting, quinine tabloids are not likely to be digested and absorbed; in such cases the drug should be given in a mixture dissolved in a dilute acid. The advantage of quinine tabloids is that the unpleasant taste is avoided.

continuous severe RTA some There malarial fevers which appear to resist the action of quinine. These are the pernicious tertian fevers, which so often cause difficulty in diagnosis inasmuch as for a few days they cases large doses of quinine are required, the and are very efficacious.

TYPHOID FEVER.

continued fever lasting for three weeks or longer, due to the entrance into the intestinal canal of a particular bacillus (the typhoid bacillus), which not only produces serious abdominal trouble but also symptoms referable to a genetrouble but also symptoms released to a generalised infection of the blood by the bacillus and the poisons which it engenders. Formerly the scourge of the British Army in India, especially among the younger soldiers, it has been reduced to a very low point, through the prophylactic use of Sir Almroth Wright's vaccine, continuous attention to the sanitary condition of the soldiers' quarters, improve-ment of water supplies, and skilful medical treatment.

"Paratyphold" is a term applied to certain fevers which have all the characters of typhoid, but with a rather lower mortality, and which are due to infection by bacilli which are closely related to the typhoid

bacilius.

The fact that typhoid more frequently to the tropics renders attacks the new arrivals to the tropics renders this disease one of the risks which tourists have to face, but this can be minimised by knowledge of the manner in which the typhoid bacillus affects an entrance into the system.

Typhoid Fever has now been shown to be a Typhoid Fever has now been snown to be a common affection among Indians, contrary to what was held some fifteen years ago. In Bengal and the Punjah, according to Leonard Rogers (Fevers in the Tropics), the maximum of cases for all casses occurs during the hot months, while the maximum for Bombay is in the rainy season. But taking the European cases only he finds that the largest number cases only he must that the largest number of cases falls within the dry, cold and hot seasons, and considers that this is due to the European being most frequently infected through contaminated dust, this class of person through conditionated aust, this class of person paying greater attention now-a-days to the condition of the water which he drinks: unlike the Indian who will drink water out of the nearest tap.

grains of quinine should be given, and repeated skin being kept moist meanwhile by a diaphoretic mixture. Some of these fevers last for a week or longer, but the majority of them yield to quinine in three or four days. It is in such that an early examination of the blood In such that an early examination of the moon is so useful. In certain cases of profound malarial poisoning or where, for any reason, quinine does not appear to be acting when administered by the mouth, recourse must be had to the injection of quinine into the tistical models and the stiffed and the s sues. This should always be done by a skilful physician, and with special precautions, as some cases of tetanus have occurred after quinine injections taken from stock solutions, even when apparently given with every care.
The "vaporoles" prepared by Messrs.
Burroughs Wellcome & Co., which consist of little glass capsules containing preparations of may suggest enteric fever, especially to those the drug dissolved in sterile and non-irritating inexperienced in tropical diseases. In such fluid, appear to be absolutely devoid of risk

By Typhoid or Enteric Fever is meant a lit is kept from contamination by dust. In intinued fever lasting for three weeks or longer, the neighbourhood of all native villages the soil is laden with animal dejecta which, of course, is very likely to be associated with disease-producing microbes. Hence infection of the food in cook-houses and shops is easily pro-duced by the wind carrying the dust from latrines and other foul areas. Uncooked vegelatrines and other foul areas. Uncooked vege-tables produced from gardens watered by sewage-containing fluid are also very dangerous, and should be avoided by the Indian traveller. Lastly oysters taken from estuaries which receive rivers laden with organic matter from the villages on the banks are believed to afford special protection to the typhoid bacillus, and when eaten raw are dangerous.

In many cases the onset of the disease is sudden, with headache, shivering and vomiting, but in a little less than half the onset is insidious, the patient being out of sorts, slightly feverish, perhaps with occasional looseness of the bowels, loss of appetite and a little sickness. He ultimately takes to his bed, generally dating the commencement of his illness from this event, and there forthwith begins a period of at least three weeks of anxiety for his friends and relatives, inasmuch as enteric fever, as seen among Europeans in India, is characterised by its greater severity and longer duration. The temperature rises gradually day by day during the first week, remains at a fairly constant high level during the second, becomes irregular with daily remissions during the third, and in the majority of cases is succeeded by a period of convalescence, during the first part of which the greatest care in dealing with the patient is required. The bacillus produces its most important effects on the lower portion of the small intestine, certain glandular structures in the wall of the bowel becoming inflamed. enlarged, and finally ulcerated. It is on the formation of these intestinal ulcers that many of the worst complications depend. The ul-cerative process favours, first a looseness of the bowels, later an exhausting diarrhoss. Moreover the destruction of some of the coats nearest tap.

As is well known, infection of typhoid is most commonly produced by contamination of drinking water. Great cais therefore necessary in boiling and filtering drinking duter. Great cais therefore necessary in boiling and filtering drinking water, and in protecting the vessels in which

from collapse and peritonitis. This is the in aborting the fever, but this does not mean danger which the physician has in view throughout the case. It can only be guarded against by the most careful nursing and attention to the dietary. Other dangers are bronchitis and failure of the heart, especially during the third week. During the stage of convales-cence the same care has to be taken with the dietary as the ulcers are undergoing healing, and an error might lead to the rupture of and an error mignt lead to the rupture or one of them when all danger may well be ex-pected to have passed. Finally, owing to the depressing effects of climate, convalescence is often attended with prolonged mental depression.

In the matter of treatment it is absolutely essential that the patient should have the benefit of skilled nursing. Fortunately highly-trained European nurses can now be obtained from any populous centre, though occasions arise when the demand exceeds the supply. If possible two nurses should be obtained for day and night duty respectively. Unless it is absolutely necessary to remove him, the patient should be nursed where he falls ill and patient should be nursed where he anis in and not seet long distances by train. At the most he should travel to the nearest large town where there is a Civil Surgeon. Treatment mainly consists in keeping the fever within bounds, and thereby sparing the strain on the bounds, and interesy sparing the strain on an elective sparing the three weeks of continued fever. This is effected in great part by the system of hydrotherapy, that is, treating the patient by continued tepid baths or by frequent sponging with tepld water to which a little toilet vinegar should be added. There is no special drug which is of any use country for pleasure or health.

that drugs are of no use in typhoid. On the that drugs are on no use an explorate contrary the complications, which are many will be detected as they arise by the caronial physician, and there is no disease which tries more than this the skill of the doctor and the care of the nurse, who will frequently bring to convalescence what seems to be an almost hopeless case. Abdominal distension, for in-Inoperess case. Autominal distension, for instance, is a frequent and serious complication in Indian typhoid, and should be treated as soon as detected. It results partly from the decomposition of the intestinal contents, partly from loss of the muscular tone of the bowel. from loss of the muscular tone of the bowd. It hinders the respiration and the action of the heart, and favours the occurrence of perforation. Diet consists almost entirely of milk, either pure, diluted with barley water or whey, or as a jelly.

Lastly a word should be said about the im-

portance of typhoid inoculation to those in-tending to travel in India or the tropics. It is better to have Wright's prophylactic vaccine injected before leaving home, but if this is not done, it should be submitted to on arrival in done, it should be submitted to on arrival in Bombay. In the majority of cases the only discomfort resulting is a little passing tender-ness at the site of inoculation: in some cases there are a few hours of fever: and in the worst the patient feels out-of-sorts for twentyfour hours. The inoculation (with a larger dose) should be repeated on the eighth day. Attention to this small precaution as a routine measure would obviate most of the catastrophes which we witness on occasions among "globe-trotters" who have come to the

DYSENTERY.

The term Dysentery is applied to several forms of infective inflammation of the large bowel, in which the principal symptoms are griping, abdominal pain, frequent straining, and the passage of a large number of evacuations characterised by the presence of blood and mucus. The changes which take place occur in the mucous membrane of the large bowel, and are first an acute catarrh succeeded by ulceration more or less extensive, and some-

times going on to gangrene.

The disease is endemic in India, and is in fact common in Eastern countries, and in Egypt. It is liable to arise in epidemic form especially among armies in the field. It is caused by a contaminated water supply, and by the infection of food by dust and flies. Dysentery is probably caused by several varieties of micro-organisms but for all practical purposes may be said to be divided into two great groups, one due to the amœba of dysentery, and the other caused by a bacilius described by Shiga and known as bacillary dysentery. The latter form is more common in Japan and in the north-eastern side of the Indian neninsula: the amœbic form being that fact common in Eastern countries, and in Japan and in the north-eastern side of the Indian peninsula; the amethe form being that most commonly seen in the Bombay Presidency. The bacillary form is characterised gloss by the presence of a very large number of evacuations perhaps as many as a hundred or even more in the twenty-four hours. In the ammeble form there are seldom more than twenty evacuations in the day, and there is less fever and general depression than in the

ease may become chronic, a condition which is associated with emaciation and profound weakness. The chronic form is also more likely to eventuate from the amochic type.

The frequency with which it attacks Europeans in India may be judged from the admissions of the European soldiers into hospital, the

sions of the European soldiers into hospital, the figures of admissions for each of the years 1910 and 1911 being 7'.7 por thousand of strength. The treatment of the bacillary form with an anti-dysenteric serum has had good results. In the ancebic form most Indian physicians still rely, and rightly so, on the use of lipeace unaha. This has to be given with particular precautions and with a previous dose of opium the classiciant the liability to womiting. to diminish the liability to vomiting. Recently, thanks to the work of Leonard Rogers, a valuable drug has been placed in our hands, in the form of emetine, an alkaloid derived from the ipecacuanha root; and which when injected into the deeper layers of the skin, gives all the good results of ipecacuanha without its unpleasant effects. It is of special value in the case of childern in whom acute dysentery is a very serious disease. We have hereby obtained one more efficient weapon in the contest with one of the common diseases

ABSCESS OF THE LIVER.

abscess of the liver but the term is applied in India to the single abscess which frequently forms as the result of amœbic dysentery, the latter generally preceding but sometimes being concomitant with the formation of the abscess. It is one of the scourges of the European in India, and is especially to be dreaded on account of the high mortality. Taking all the cases together, including the acute and chronic and all classes of the community, the death rate is about sixty per cent, but this will probably be reduced by recent improve-ments in the methods of diagnosis and treatment. The latest annual report of the Sani-tary Commissioner with the Government of India states that next to enteric fever, hepatic abscess is the most frequent cause of death among European troops, but the admissions and deaths on account of it have decreased greatly during recent years. The report also notes that the decrease in the number of cases of liver abscess is coincident with an equally steady fall in the number of admissions to hospital for alcoholism.

The disease is most liable to attack those who, in addition to having had an attack of dysentery, have indulged, not necessarily to excess, in alcohol and general good living, and are at the same time somewhat sluggish in their habits. It is often preceded by continued fever, malaise, dyspepsia, and more or less uneasiness in the liver region, or the latter organ may be apply colored. organ may be acutely enlarged and very tender.

There are several varieties and causes of matter of anxiety, but greater precision is now possible as we have come to recognise what Rogers has called the presuppurative stage of amœbic hepatitis, which is very amenable to treatment by ipecacuanha or injections of emetine. The use of this method will often prevent the case going on to the dangerous condition of abscess, which when it has once definitely formed can only be dealt with by prompt operation, which in itself has a high mortaitty. Further aid is now obtained by special examination of the blood and by the use of the X-rays, which will often clear up a doubtful case.

The abscess generally forms in the right lobe of the liver. Should it form on the left side it is especially liable to rupture into one of the internal organs.

The same complication may eventuate when the abscess forms on the right side. Here the principal point of rupture is into the right lung, the contents of the abscess being suddenly evacuated, in some cases without much warning, and nature thereby effecting a cure. Such a termination however is not desirable as healing will take place quicker by surgical means.

There are some abscesses which are exceedingly insidious, it often happening that patients are sent home with a fever associated with general loss of health and weight, where the existence of a deep seated abscess may not even be suspected; but in which the symptoms of hepatic abscess suddenly occur and clear up the case: or the correct diagnosis may obtrude In many cases the exact diagnosis is often a litself by the sudden rupture as above described.

PLAGUE.

Plague is a disease of very great antiquity; its ravages and symptoms have been described with remarkable accuracy by the old historians, such as Procopius. Not many years ago it appeared to be a disease of historical interest only, but the present pandemic, which com-menced about 1894, has made it a subject of the menced about 1894, has made it a subject of the greatest importance to the inhabitants of the British Empire. It was in March 1894 that it first became prominent in Canton, and thereafter it spread to Hongkong, Macao and Pakhoi, and so along the whole of the Southern China Coast. It probably arrived in Bombay in March 1896, but it was not until the end of September that it became noticeable in that part of the native site known as Mandy! in which the great grain city known as Mandvi, in which the great grain supplies are collected, and wherein consequently supplies are considered, and whether consequency there is an enormous rat population. In October of the same year the presence of the postlence was officially acknowledged. Everything which the limited knowledge of the supthing which has indiced knowledge of his sur-ject at that time suggested, was done to check its spread; but, in spite of all efforts, the pesti-lence spread from the infected city throughout the greater portion of the Peninsula, and while its ravages of late years have not been so terrible

about fifteen to twenty per cent., due to defects in the registration of the causes of deaths and also to the fact that the disease often simulates other maladies for which it is likely to be mistaken by an uneducated population.

Plague is an acute infection of the blood by a bacillus which was discovered by Kitasato in Hongkong in 1894. It generally affects its entry by the skin, on which it is deposited by the rat-flea. At the site of deposit a small pustule is occasionally found which soon forms a superficial ulcer. In such cases inflammation and distention of the lymphatics may be noticed running from the neighbourhood of the small and painful ulcer to the nearest group of glands. and painful liter to the nearest group of guants. These will be found to be enlarged and exquisitely tender, the tenderness being out of all proportion to the size of the glandular enlargement and to the amount of local inflammation. This glandular enlargement is called the Bubo, which has given the name to the most common form of the pest—Bubonic Planus Plague.

With the appearance of the Bubo, or even a day or so before it, there is evidence of a general its ravages of late years have not been so terrible as at its first appearance, yot the disease still appearance, yot the disease still appearantly become one of the endemic disease still appearantly become one of the endemic disease significantly become one of the endemic diseases of India. According to the official figures, Plague since its appearance has been responsible for more than seven and a haif million that the property of the content of the property of the property o takes its annual tou of numan life, and it has apparently become one of the endemic diseases of India. According to the official flugres Plague since its appearance has been responsible for more than seven and a half million deaths within the limits of the Indian Empire, strength of the cardio-vascular system. The These figures should perhaps be increased by pulse becomes quicker, smaller, and the heart

sounds feeble. As the case progresses, the primary ulcer will enlarge and become of an angry appearance, the Bubo will also enlarge and the tissues around the inflamed lymphatics will be swollen and ædematous. To this variety the term "cellulo-cutaneous plague" has been applied. The spreading ulcer, which is really a local gangrone, has been described as the plague "carbuncle"; these forming on the skin of those affected were often referred to by old historians as a prominent feature in many ancient epidemics.

These cases however are somewhat uncommon. The usual variety met with is the Acute Bubonic Plague. In this the patient is attacked with fever, and all the general sympnumerical with rever, and all the general symp-toms of an acute infection, and on the first, second or sometimes the third day of the illness the characteristic bubo appears. The common site is among the glands of the groin, for the reason that these glands receive the lymphatics from the lower limbs and from the lower portion of the trunk up to the level of the navel, a larger area than that drained by any other group of glands. Other sites for Bubo formation are the arm-pits, the glands of the neck, those about the angle of the jaw and below the chin, and very rarely the little gland on the inner side and just above the cibow, and the small glands behind the knee joint. In some cases, generally in association with Buboes in the groin, the deep glands of the abdomen can be felt to be enlarged.

These Plague Buboes are of different kinds and it is a matter of some importance in connection with treatment and the outlook as regards recovery, to recognise the type of Bubo present in each particular case. The common variety is the "softening bubo." The en-largement increases somewhat rapidly and the hard swelling gives place to a soft doughy mas around which is a limited amount of scrous effusion into the subcutaneous tissues. If the patient lives till the fifth day or thereabouts this bubo will feel like a tightly stuffed pincushion, or may give the experienced examiner the signs that the contents are of a fluid nature. one signs that the contents are of a full nature. On incision, pus and shreds of the disorganised gland will be evacuated, and under suitable treatment the cavity, though large, will heal up within a week or so. When these softening Buboes are allowed to rupture spontaneously large feel applied to produce such as not to the produced such as not to the content of the produced such as not to the content of the produced such as not to the content of the produced such as not to a large foul cavity is produced; such are not unfrequently encountered among the poor, who have not received adequate attention during the stress of a plague epidemic.

Another variety of bubo obtains when the glands inflame and harden, the inflammation being so acute that the blood supply of the part is obstructed and the whole of the affected area sloughs out, leaving a large superficial ulcer of a very unpleasant appearance. These buboes are found where the inflamed glands are bound down beneath tense tissues, as in front of the ears and in the region of the groin. To this kind the term "indurated bubo" has been applied. Another variety the "ædomatous bubo" occurs in the neck and the arm-pit and in them the serous effusion into the tissues around the glands, present to a less extent in the common type is the essential feature. The whole armpit or the side of the neck may be passes into a slow convalescence, but which is distended by the accumulation of fluid under sometimes retarded by the formation of chronic

the skin. It is an extremely distressing kind of bubo, as the pain is great and nearly all the patients die. Also there is a rare kind the hard late bube," which appears after about a fortnight in cases simulating typhoid fever, and lastly there are some soft buboes which about and shrink with the rapid subsidence of the fever—the "shrinking bubo." The fever lever—the "shrinking bubo." The fever continues from the outset with slight remissions; it is generally about 103° to 104°, but it may rise to a great height from almost the initial rigor. On the third day the temperature tends to approach the normal, and almost immediately rises again. Should it rise to a point above that of the maximum temperature preceding the remission the outlook is bad; but in case which are likely to do well it rises to a point which is less than that of the preceding maximum, and after about three days ceding maximum, and after about three days gradually fails to normal, with slight daily oscillations depending on the amount of the suppuration in the buboes and their local condition.

It is to be understood that this disease is of such great virulence to human beings, on account of the early appearance of the plague bacillus in the blood-stream, that there are many in-stances in which death occurs before the bubo has had time to undergo the changes described above or even to form. The more acute cases are also liable to be atypical in their mode of onset. Some are taken with a wild delirium in which they are likely to attack those about them: others suffer from vomiting of blood followed by rapid failure of the heart and death ; pregnant women miscarry and practically all of them die: and lastly there are cases where the general and local symptoms are slight and yet failure of the heart may suddenly ensue within a few hours of the onset. These so-called "fulminant" cases are generally met with at the commencement of every epidemic in some of the descriptions of mediaval epidemics they seem to have been in the majority, and it is on account of these that plague opi-demics appear so terrible to the occupants of the plague-strickon town. Fortunately, how-ever, there is a large majority of cases which allow some scope for medical skill. The condition of the patient after the full development of the symptoms is always one which gives rise to great anxiety. The mental condition becomes dulled, which, while it mitigates con-siderably the distress of the sufferer, is nevertheless an indication of the action of the plague poison on the nerve centres. The eyes are suffused and often acutely congested. There may be cough, which is a bad sign as it indicates either a secondary pneumonia or the onset of an acute bronchiffs, the direct result of the failure of the heart. If the latter progresses the breathing becomes more rapid, the pulse weak and almost uncountable at the wrist, the skin cold and clammy, and towards the end covered by profuse perspiration: finally, the breathing becomes irregular, and after several long-drawn gasps the patient breathes his last,

In other cases however improvement starts about the fourth day, the temperature gradually falls, and the mind clears: the hubo supported rates in due course and heals up, and the patient passes into a slow convalescence, but which is

abscesses, boils, attacks of heart failure or of fluid which contains the plague bacillus in almost palpitation: or ulcars of the eyeball with pure culture. The fever is very high and the infection of the whole globe and consequent interference with respiration immediate, and loss of sight. Some recover with permanent mental enfeeblement, or persistent tremors of the limbs with difficulty in speaking with clearness.

Septicaemic Plague.

This term is applied to certain forms of acute plague where buboes do not form, or where there is uniform but slight enlargement of glands in various parts of the body with symptoms of a general blood infection. The term is misleading, inasmuch as most cases of acute bubonic plague are really septicaemic from the outset. These cases are either acute, ending statily about the third day or sooner: or are sub-acute, with symptoms simulating typhoid fever, ending fatally in about a fortnight. In the acute cases large dusky patches of blood-effusions beneath the skin, the so-called plague spots, are sometimes found; and there may be hemorrhages from the stomach or bowels.

Pneumonic Plague.

In this variety the plague bacillus proliferates in the lung and causes rapid consolidation of large patches of the lung tissue scattered

DENGUE FEVER.

ters describe it differently, its identity is not always recognised; and, therefore, by many medical men is thought to be less common than it really is. On occasions it gives rise to very wide-spread epidemics. In 1902 there was an extensive epidemic on the eastern side of the Indian Peninsula, and quite recently there has been a bad outbreak in Calcutta. It is more

been a bad outbreak in Calcutta. It is more common during the rainy season.

The onset is abrupt, with fever, slight sore throat producing cough, rapidity of the pulse, sometimes a red rash which is so fugitive that it is often overlooked, and intense pain. These pains constitute the restant's chief complaint pains constitute the patient's chief complaint.

They are generally pains in the bones, or in the small of the back, or in some of the joints either large or small. Sometimes there is no complaint of pain in the limbs, but there is nitense pain behind the eyes. The fever lasts for three or four days, during which in rare cases there may be further symptoms due to the appearance of be further symptoms due to the appearance of a plenrisy or even a pericarditis. Sometimes there is intense shooting pain into the little finger. Though the intensity of the symptoms may give a very serious aspect to the case, yet a fatal issue is almost unknown. After the

yet a fatal issue is almost unknown. After the has characters which are analogous to the virus four days of intense suffering the fever sub-

This is one of the most important diseases persed over the country-side by the returning of India, having been endemic therein for many bands of pilgrims. The deaths in British India from this disease in 1910 numbered four hundred country, and sometimes extends are larged to the country of bundreds of years. It is always present in the country, and sometimes extends over large dis-

death occurs from the second to the fourth day. A curious fact about pneumonic plague is that one such case is liable to give rise to others of the same type.

Treatment of the Disease.

No serum or antitoxin has so far proved of value in diminishing the mortality of the sick. Much can, however, be done by medical treatment. Absolute rest is required and the patient should not even be allowed to sit up in bed. Drugs which act as heart stimulants are required almost from the outset, and frequently these have to be administered by the skin as well as the mouth. The buboes should be fomented till they soften, and incised as soon as fluid is formed. For the pneumonic condition the adnormal. For the pheumonic condition on a ministration of oxygen gas gives relief. This can be obtained in India without much difficulty. Careful nursing is essential, and fluid nourishment must be given regularly in an easily assimilable form, and complications have to be met as they arise. As regards prophylaxis by means of Haffkine's Plague prophylactic which is manufactured in enormous quantities at the Bacteriological Government Laof large paterns of the large and heavy, and the bronchial tubes filled with reddish frothy per cent.

Dengue fever, otherwise known as Dandy fever isides somewhat abruptly, and at about this time or Breakbone fever; is rather common in India a second rash appears, most marked over the and is generally present in the larger towns, but shoulders and neck, and on the backs of the as it appears in manifold forms and various wri-arms, or else an universal rash. It is of a dark not red colour, often very like the rash of scarlet any fever, or it may be like that of measles. With han its appearance the more severe symptoms subside. During convalescence the patient is much depressed, and the pulse remains unduly rapid. Sometimes also pain starts again in one of the joints, or he is crippled by stiffness of the back or of several of the joints. After a shorter or longer period, from two days to ten, a second attack of fever and pain comes on which runs the same course but as a rule less severe and prolonged; in very rare cases there is a third attack.

There is no drug which will cut short the disease. From its likeness to rheumatism the salicylates are generally used, and perhaps relieve the pains. This drug should be combined with an ordinary fever mixture: large doses of bro-mide should be given for the headache, and the excruciating pains must be treated with mor-

It is often impossible to distinguish the malady from influenza until the appearance of the rash. It is believed that the polson is conveyed by the bites of a mosquito, and that this poison

CHOLERA.

tricts generally from some crowded centre such three hundred and fifty-four thousand. The disease is of a pilgrimage, from which it is dis-

pilgrims both on going to and returning from Mecca.

It is essentially a water-borne disease and the exciting cause is the "comma bacillus" discovered by Koch, so called from its shape when isolated and stained. The dejects of a person suffering from the disease, when contaminating the soil, are liable to get washed by the rains into some water-supply, which may become the source of almost unlimited infection. Such contaminated drinking water is rendered in-nocuous by boiling, or filtration through a Pasteur-Chamberland filter. The importance of Koch's discovery, therefore, lay in the recogni-tion of the fact that the poison was essentially water-borne. It can also be conveyed by fliessettling on food.

The disease has an incubation period of from two to seven days. After a premonitory diarrhea with colicky pains lasting for half a day or longer, the nature of the illness is announced by violent purging and vomiting, the former having the peculiar character of rice-water. The poison may be so intense that death takes. place before the purging appears, the so-called "cholera sicca." In the common form collapse is early and marked, the extremities are blue and cold, the skin shrunken, the heart weak, the surface temperature below normal, though the temperature taken in the mouth shows high fever to be present. There is curious pinched expression of the face with deeply sunken eyes, and the patient endeavours to com-municate his wishes or fears in a hearse whisper. He is further distressed by painful cramps in the muscles of the calf and abdomen, and there is suppression of the functions of the kidneys. Death generally takes place in this the algid state. Should the patient survive he passes into the stage of reaction, the unfavourable sympnto one stage of reaction, the uniavourable symptoms disappearing and gradually passing into convalescence. In some of these cases which give hopes of recovery there is a relapse, the conditions of the algid state re-appearing and death taking place. It has recently been recognised as a cause of the dissemination of the disease, that patients who have recovered will continue to discharge the bacillus for many weeks.

The prevention of cholera lies in attention to water supplies, and in boiling and filtering as a matter of routine in Indian life. All the discharges from the sick should be treated with disinfectants, and soiled clothing and linen destroyed. People who have to tour in cholora-stricken districts, or who go on shooting ex-cursions, or who find themselves in the midst of a choicra outbreak should undergo inoculaor a cholera outbreak should undergo indular-tion with Haffkine's preventive vaccine. Two inoculations are required, the second being more intense in its effects. The temporary symptoms which may arise after the inocula-tion are sometimes severe, being always more marked than after inoculation against typhoid. but the protection afforded more than makes up for the temporary inconvenience endured.

Treatment mainly resolves itself into meeting the extreme collapse with stimulants and warmth. There is great temptation to administer opium but in some cases this is not unattended with danger, and in others there is no capacity left in the patient for the absorption of drugs administered by the mouth. The mortality has however, been reduced by the injection of saline fluid into the skin or directly into the veins, and also by the introduction of saine fluid of particular strength into the abdominal cavity.

Kala-Azar.

This is a slowly progressive disease assoclated with great enlargement of the spleen and some enlargement of the liver, extreme emaciation, and a fever of a peculiar type characterised by remissions for short periods, and due to infection by a parasite of remark-able characters which have only recently been worked out. It is attended with a very high mortality, about 96 per cent., and has up to the present resisted all methods of treatment, although some patients appear to improve for a time, only in the majority of cases to relapse later.

It is endemic in Assam, from which it has invaded Bengal, and is now often seen in Calcutta. It is also fairly often met with in Madras, though it is said that the cases are imported ones. It is very rarely seen in Bombay, and then only in immigrants from infected localities, though there appears to be a mild en-demic centre in Jabalpur in the Central Provinces; so it is likely to be more frequently met with on the western side of India. caused great mortality among the coolies on the tea-plantations of Assam, especially among the children; but under the recent measures of prophylaxis which have been put into force since knowledge has been acquired about its real nature and method of spread, the ravages of the disease are likely to be limited. very rare among Europeans and then almost entirely among those who have been long in India or who have been born and bred in the country.

Infection seems generally to start in the cold weather. There is fever with rigors, and progressive wasting and loss of energy. The temperature chart is a curious one, the fever temperature chart is a curious one, the fever showing two remissions during the twenty-four hours. Diarrhea is common, especially during the later stages of the disease. The spiene enlarges early and is generally of enormous size producing bulging of the abdomen. A remarkable feature is the tendency to the formation of ulcers, which in many cases, especially in children, takes the form of a cangrenous ulceration of the mouth and check. Death enterly covers from some intercurrent. Death usually occurs from some intercurrent inflammatory condition, often pnoumonis.

The parasite is found in the spleen and liver The parasite is found in the spleen and liver during life, and can be obtained by puncture of these organs. As thus obtained it is a minute round body of special characters. In this state it is known as the Leishman-Donovan body from its discoverers. This small body from its discoverers. This small body the control of t During the cholera season the mildest cases of diarrhoea should be brought for treatment to a pivysician, as such persons are more liable to a pivysician, as such persons are more liable than others to contract the disease.

organism develops outside the human host, Patton has succeeded in developing the flagelis not yet completely known. It is certainly a house-infection, which accounts for the manner in which whole families have been swept off, one member after another. Its progress has been stayed by moving families from their infected houses and burning down their former quarters. This, and other facts connected with its spread, have suggested man to man is the common bed-bug, and closely allied, are nevertheless distinct.

late stage in this creature when fed on the blood of the sick.

There is a severe form of ulceration of the in known as "Delhi Boil" from which skin known as organisms very similar to the Leishman-Donovan body were obtained many years ago. These bodies have also been cultivated outside connected with its spread, have suggested the human host and found to develop into a that the agent for conveying the poison from flagellated organism. The two parasites, though

DRUG CULTURE.

Two monographs on the cultivation of drugs a profitable market for them. The quality of in India, by Mr. David Hooper, of the Indian Museum, Calcutta, and by Mr. Puran Singh, of the Indian Forest Department, Dehra Dun, have lately been published. Mr. Hooper, in his paper, states that one-half of the drugs in the British Pharmacopoela are indigenous to the East Indies, and nearly the whole of the rest could be cultivated or exploited. The fol-lowing are given as those that could be grown in quantity and as worthy of the attention of cultivators and captalists:

Belladonna, most of which is still imported, grows well in the Western Himalayas from Simla to Kashmir, the Indian-grown plant containing 0.4 to 0.45 per cent. of alkaloid.

Digitalis is quite acclimatised on the Nilgiris, growing there without any attention. The Madras Store Department obtains all its requirements from Ootacamund, and the leaf has been found equally active to that grown in England.

Henbane is a native of the temperate Himalayas from 8,000 to 11,000 ft. It was introduced into the Botanic Gardens, Saharanpur, in 1840, and it has been steadily cultivated there up to the present time, and the products supplied to medical depots satisfy the annual de-

Ipecacuanha has been raised with a small measure of success in the hilly parts of India, and it only requires care and attention to raise it in sufficient amount to make it commercially remunerative.

Jalap-root grows as easily as potatoes in the Nilgiris, and there is no reason why the annual requirements (about 4,000 lbs.) for the Medical Stores of Bengal, Bombay and Madras should not be obtained from Ootacamund.

Mr. Puran Singh discusses the subject in a number of the " Indian Forester" : he states that recent most of the drugs in the British Pharmacopmia grow wild in India, and that there is already a large export trade for some of them. He adds, however, that materials collected at random cannot be expected to fetch full prices, as they seldom come up to standard quality, and he adds: "The few drugs that are not indigenous to India could easily be made to grow in some part or other of this vast land. The great advantage accruing from the systematic cultivation of drugs is that a regular supply of genuine drugs of standard quality is assured. The variation in the quality of wild-grown drugs is sometimes a very serious drawback to finding

Podophyllum Emodi growing wild in India is an illustration in point. This plant was discovered by Sir George Watt in the year 1888, and now, even after twenty-four years, in which it has been shown to be identical with the American drug that is being employed for pharma-ceutical purposes, it still remains unrecognised by the British Pharmacopœia, which, as ex-plained by the "Chemist and Druggist" some time ago, is solely due to the uncertainty which still exists as to its physiological activity.

Mr. Singh also points out that the Indian consumers of medicine depend mostly on herbs growing wild in the Forests, the more important of these probably numbering at least 1,000. This inland trade is very large; the possibilities in the Punjab only being put at Rs.50,00,000. He mentions saffron, liquorice, and salep as products exotic to India, whose cultivation in that country looks full of promise. Mr. Singh suggests that a complete survey be made of the extent of the inland trade in medicinal products found growing wild in Indian forests in order to arrive at the figures of annual consumption, and that the forest areas where the most important drugs grow should be preserved. Inquiries should be instituted as to the best methods of cultivation, and if need be, the means of extending the artificial propagation. It is to provide data to induce the private capitalist to embark on such enterprises that Mr. Singh advocates the formation of some body to go into the matter. He suggests that India is well worthy of attention by those in this country who are interested in extending the culture of drugs in the British Empire. The Forest Department has already begun the cultivation of Indian podophyllum-root in the Punjab, United Provinces and the North-Western Frontier, and that several maunds of dried rhizome are sold annually for local consumption. Mr. Hooper also shows that a start has been made in regard to the cultivation of belladonna, henbane and digitalis. One of the principal difficulties to be overcome is to ensure a ready market, and there is also always the danger of overproduction to be considered...

Essential Oils.

SANDALWOOD OIL is, by far the most important perfumery product of India. The sandalwood tree is a root parasite, obtaining its nourishment from the roots of other trees. by means of suckers. It grows best in loose volcanic soil mixed with rocks, and preferably ferruginous in character. Although in rich

soil it grows more luxuriantly, less scented wood is formed, and at an altitude of 700 feet it is said to be totally devoid of scent. The best yield of oil is obtained from trees growing at an altitude of 1,500 to 4,000 feet, but the tree requires plenty of room so as to enable it to select vigorous hosts to feed it.

PALMAROSA OIL, also known as Indian geranium or "Turkish geranium oil" is another of the principal perfume products of India. It is derived from the grass, *Cymbopogon Martini*, which is widely distributed in India, where it is known as "Motya". Gingergrass is an oil of inferior quality, possibly derived from older grasses or from a different variety of the same species. Both oils contain geraniol, the proportion in palmarosa being from 75 to 95 per cent. and in gingergrass generally less than 70 per cent. These oils are used in soap perfumery

and for scenting hair oils, pomades.

Lemongrass Oil is derived from Cymbopogon citratus and Cymbopogon flexuosus. The former is a native of Bengal, and is largely cultivated all over India, but the oil distilled on the Malabar Coast and Cochin is derived principally from

Coast and Coomin to Conference of the Conference of Confer leaves are practically odourless and only used for thatching and weaving purposes. The roots are used in perfumery and in the manufacture of mats and baskets.

THE MALABAR CARDAMOM, Elettaria cardamomum, is the source of the seeds official in the British and other Pharmacopelas. Cardamom oil of commerce is, however, not distilled from this variety on account of the high price, but is obtained aimost exclusively from the long cardamom found growing wild and cultivated in Ceylon. The oil is used medicinally as a carminative and is also employed by perfumers in France and America.

COSTUS ROOT (the root of Saussurea lappa) is a native of Kashmir, where about 2,000,000 lbs. are collected annually. It is exported in large quantities to China where it is used for incense. It is also used to protect shawls and clothes from the attacks of insects. Its odour

resembles that of orris root.

BLUMEA BALSAMIFERA is the source of the Nagai camphor used in China for ritualistic and medicinal purposes. This shrubby composite is found in the Himalayas and is indigenous to India. It is widely distributed in India and is used by the natives against flies and other insects.

EUCALYPTUS plantations are situated chiefly in the neighbourhood of Ootacamund, Coonoor, and Wellington, at elevations varying from 5,500 to 8,400 feet, the best being at from 7,200 to 8,000 feet. The climate of this region is fairly cool, equable and moist, with a well-distributed rainfall of about 50 to 80 inches; although frosts occur, the winters are mild on the whole, and snow is unknown. The soil, a red clay overlying gnelssose rock, is rich and deep in some parts, shallow and poorer in others. A large factory is being built for the distillation of eucalyptus oil at Ootacamund. It is believed there is a considerable future for the undertaking, provided a sufficient supply of the leaves is available.

Manufacture of Quinine.

Government Cinchona plantations started in India in 1862 from seed introduced by Sir Clements Markham from South America. of which the plant is a native. There are two main centres, Darjeeling and the Nilgirl Hills. In both localities a portion of the area is owned by tea or coffee planters, and the bark they produce is either sold to the Government or produce is either soid to the Government or exported. Several species of cinchona are cultivated in India: namely, Cinchona succirubra (red bark), C. calisaya and ledgeriana (yellow bark), and C. officinalis (crown bark). The commonest species in Darjeeling is C. degerging and in Seuthern Lettle C. officialis. ledgeriana, and in Southern India C. officinalis. A hybrid form is also largely grown and yields a good bark. At the Government factories both cinchona febrifuge and quinine are made. Thanks to these factories, practically no qui-nine is nowadays imported for Government purposes. Private imports of quinine amounted in 1911 to lbs. 128,149 valued at £72,984. One of the most far-reaching measures of modern times for the benefit of the health of the people of India has been Sir George King's the people of india has been sir George king; system of having quinne, locally produced from cinchona, made up in 7-grain packet and sold (since 1896-7) for a quanter anna (one farthing) at overy post office in India. This scheme has proved a commercial success, and has been of innerese benefit to the interesting of the product of the habitants of fever-stricken tracks. In the year 1912-13, 10.694 lbs. of quinine were sold at the post offices.

The Quinine Ring.—A report issued in April, 1914, by the Superintendent of the Royal Botanic Garden, Calcutta, states:—"Towards the middle of 1912 negotations were commenced between the Java planters, who produce about 80 per cent, of the world's bark, and the European bark importers and quinine manufacturers with a view to an agreement as to the minimum unit price to be given for bark. The price of quinine in the bark had been going down stendily for a number of years, and had reached a point that threatened the conversion of much cinchona land in Java into coffee, tea or sugar-producing areas. At present the negotiations between these bodies still drag on, but it seems probable that an agreement will be arrived at whereby, among other conditions, the infilinum rate for bark will be raised to 5 Dutch cents, per unit." The quinine ring is now an established unit." The quinine ring is now an established fact. The effect of this agreement may be far reaching. Already, after less than a year's working, the price for bark has risen from the minimum 5 cents imposed to 6 20 Dutch cents. per unit and there is every likelihood, according to latest advices, of a further rise. This has had the effect of nearly doubling the price of quinine the enert of neary doubing the price of quibine within the last three years and has at once made the production of the alkaloid a profitable concern. The agreement would appear to be working smoothly and already there are hints that it will be ratified at the end of the contract inacti win be ratined at the end of the contract period: nor is the world's production in excess of the growing market's demand. Unless unforescen circumstances such as the displace-ment of quinine by other drugs or increased acreages pointing to greatly increased pro-duction ensue, quinine is likely to remain at its present high level for some time.

The Cocaine Traffic.

soluble in half its weight of water. The alkaloid cocaine—of which this is a salt—is obtained from the dried leaves of the Erythroxylon Cocaine which grows in Bolivia, Peru, Java, Brazil and other parts of South America. The leaves are most active when freshly dried and are much used by the Natives as a stimulant. Tea made from them has a taste similar to green tea and is said to be very effectual in keeping people awake. In India the Coca plant seems never to have been cultivated on a commercial scale. It has been grown experimentally in the tea districts of Ceylon, Bengal and Southern India and has been found to produce a good quality and quantity of cocaine. As the plant has not been seriously cultivated and as there is no possibility for the present of the drug being manufactured in India, no restrictions have as yet been placed on its cultivation.

Spread of the habit .- The cocaine traffic in India which seems to be reaching alarming proportions in spite of legislation and strict preventive measures is of comparatively recent growth; though it is impossible to estimate how widespread it was in 1903 when the Bombay High Court for the first time decided that cocaine was a drug included within the definition of an intoxicating drug in the Bombay Abkari Act. Since that date the illegal sale of cocaine in India has largely increased and the various provincial Excise Reports bear witness to the spread of the "Cocaine habit." The consumers of the drug, which is notoriously harmful, are to be found in all classes of society and in Burma even school children are reported to be its victims; but in India as in Paris the drug is victims; but in India as in Paris the drug is mostly used by prostitutes or by men as an aphrodisiac. The habit has spread chiefly to those classes which are prohibited by religion or caste rules from partaking of liquor and the well known Indian intoxicating drugs.

Imports from Europe.—Cocaine and its allied drugs are not manufactured in India, but are imported from Germany, France, England and Italy. Most of the drug which is smuggled into India, comes from Germany and bears the mark of the well-known house of E. Merck, Darmstadt. This firm issues cocaine in flat packets of various sizes ranging from 1 to 3 packets or various sizes ranging from 1 to 3 ounces which are easily packed away with other articles and greatly favour the methods of smugglers. Owing to its strength and purity cocaine eaters prefer this brand to any other in the market. Restrictions on export from Europe have been under consideration for some time but as yet no international scheme devised to that end has been agreed upon. This is to be regretted for, according to a Press Note issued by the Government of Bombay in April, 1918, "the cocaine habit appears to be extending and unless concerted measures are taken to cut off the supply of the drug at its source in Europe it is not possible for a preventive staff in Bombay to do more than put from time to time a temporary check on the nefarious traffic."

Smuggling.—So far as the cases already satisfy his craving. In the case detected show, the persons who smuggle the victims the usual resort is thett."

The form of cocaine chiefly used in India is drug by sea from Europe and places outside Cocaine Hydrochloride. This salt forms light India, into India, are chiefly sallors, stewards, shining crystals, with a bitterish taste, and is firemen and sometimes engineers and officers fremen and sometimes engineers and officers of the Austrian Lloyd and Florio Rubattino S. S. Companies. The crews of German and English ships, calling direct at Marmagoa, are also known to import the drug in large quantities. Cases are also on record of the drug having been smuggled in from the Persian Gulf and the Far East. The chief ports through which cocaine enters India are Bombay, Karachi, Calcutta, Madras, Marmagoa and Pondicherry. The main inland distributing centres are Delhi, Lucknow, Mecrut, Lahore, Mooltan, Surat and Ahmedabad. Delhi especially is notorious for the cocaine trade. Great ingenuity is employed in smuggling cocaine through the Custom houses. It is packed in parcels of newspapers, books, toys and piece-goods and in trunks which have secret compartments. The retail trade in the towns is very cunningly organized and controlled. In addition to the actual retailers, there is a whole army of watchmen and patrols whose duty is to shadow the Excise and Police Officials and give the alarm when a raid is contemplated. In spite of these precautions many big seizures have been made in Bombay, Calcutta, Karachi and elsewhere. In Bombay all Austrian and German ships are watched day and night by special officers during the whole time the vessels are in port. This has resulted in smaller quantiare in port. This has resulted in smaller quanti-ties being landed. The total quantity of cocaine scized in the Bombay Presidency during 1913-14 consequently fell to about 850 ounces. Many large scizures have been made during the current year, i.e., 1914-15.

> Price.—The cocaine seized is either given to Hospitals in India or destroyed. It is no longer possible to buy cocaine from any betelnut seller as it was ten years ago, but scores of cases in the Police Courts show that the retail trade thrives, though to a diminished extent, in Bombay. High profits ensure the continuance of the trade. At present the English quotation is 12 shillings per ounce and the price accord to the price accord to the price accord to the price accord to the price accord to the price accord to the price accord to the price accord to the price accord to the price accord to the price accord to the price accord to the price accord to the price accord to the price accord to the price accord to the price accordance to the price acc the price as sold by licensed chemists in India is the price as sold by licensed chemists in India is about Rs. 17 per ounce. Owing to the war and the consequent stoppage of illicit importations from Austria and Germany it is not possible to buy the smuggled drug from the wholesale dealers for less than Rs. 25 to 30 per ounce and when sold by the grain the price realized varies from Rs. 120 to Rs. 180 per ounce. These profits are further enhanced by adulteration with phenocetin and interior guiting. ation with phenacetin and inferior quinine. Major A. Tuke, I. M. S., in an article in the Indian Medical Gazette states that in Bombay the cocaine habit is prevalent among the upper as well as the lower classes, and Mahomedans are the greater consumers. "Apart from the are the greater consumers. "Apart from the physical harm done to the victim this habit is producing endless petty thefts and crime. The confirmed cocaine-eater consumes as much as 60 grains a day the price being about 3 annas per grain. Once having acquired the habit he cannot endure even a reduction of his daily dose, much less do without it altogether. Somehow he must find 180 annas a day to satisfy his craving. In the case of the poorer

The law in regard to Cocaine.—This varies Indian agriculturist. Five or six species of different provinces. A summary of the law Nicotiana are cultivated, but only two are in different provinces. A summary of the law in different provinces. A summary of the law In Bombay is as follows: No cocaine can be imported except by a licensed dealer and importation by means of the post is entirely prohibited. The sale, possession, transport and export of cocaine are prohibited except under a license or permit from the Collector of the District. A duly qualified and licensed Medical practitioner is allowed to transport or remove 20 grains in the exercise of his proor remove 20 grains in the exercise of his profession; and as far as 6 grains may be possessed by any person if covered by a bona file preby any person it covered by a bona file pre-scription from a duly qualified Medical practi-tioner. The maximum punishment for illegal sale, possession, transport, etc., under Act V of 1878 as amended by Act XII of 1912 is as follows: Imprisonment for a term which may extend to one year or fine which may extend to Rs. 2,000 or both and on any subsequent conviction imprisonment for a term which may extend to 2 years or fine which may extend to Rs. 4,000 or both. In Bengal the maximum imprisonment awardable at present for importation or possession of cocaine is 3 months' imprisonment under the Excise Act with or without a fine up to Rs. 1,000. In Madras so far as information is available the maximum imprisonment awardable for cocaine offences is six months and the maximum fine Rs. 1.000.

Indian Tobacco.

The tobacco plant was introduced into India

Necutana are cultivated, but only two are found in India, namely, N. Tabacum and N. rustica. The former is a native of South or Central America, and is the common tobacco of India. About the year 1829 experiments were conducted by the East India Company towards improving the quality of leaf and perfecting the native methods of curing and manufacturing tobacco. These were often repeated, and gradually the industry became identified with three great centres: namely, (1) Eastern and Northern Bengal (more especially the District of Rangpur); (2) Madras, Trichinopoly, Dindigul, Coconada and Calicut in Southern India; and (3) Rangoon and Moulmein in Burma. Bengal is the chief tobacco growing Province, but little or no tobacco is manufactured there. The chief factories are near Dindigul in the Madras Presidency, the university of heavy. though, owing to the imposition of heavy import duties on the foreign leaf used as a cigar wrapper, some cigar factories have been moved to the French territory of Pondicherry.

The question of improving the quality of Indian tobaccos has received the attention of the Botanical section of the Agricultural Research Institute, Pusa, and three Memoirs have been published recording the results of investigations in that direction. The immediate problem at Pusa is the production of a good cigarette tobacco. Many attempts have been made in the past to introduce into India by the Portuguess about the year 1605. As in other parts of the world, it passed through a period of persecution, but its ultimate distribution over India is one of the numerous examples of the avidity with which advantageous amples of the avidity with which advantageous the corps or appliances are adopted by the

The Women's Medical Service for India. 43

This Service which was recently inaugurated under the auspices of the late Lady Hardinge, it included in the National Association for supplying female medical aid to the Women of India, generally known as the Countess of the Dufferin's Funds and is administered by the Central Committee of that Fund. The Government of India has so far allotted the sum of £10,000 per annum towards its main-tenance. The present sanctioned cadre is twenty-five first class medical women, of which number five is for the purpose of forming a leave reserve. Recruitment of the service is made (a) in India by a medical sub-committee of the Central Committee which includes the Director-General, Indian Medical Service, the Honorary Secretary to the Central Committee, and a first-class medical woman; (b) in England, by a sub-committee, consisting of a medical man and two medical women conversant with conditions in India, to be nominated by the Home Committee of the Countess of Dufferin's Fund. These sub-committees perform the duties of a medical board examining candidates for physical fitness, and for return to duty after invaliding.

The Central Committee determines what proportions of the members of the Service is to proportions or the memors of the service is per terminal to be recruited in England and in India respectively. In the original constitution of the Service, duly qualified medical women who are in the service of, or who have rendered approved service to, the Countess of Dufferin's Fund. are to have the first claim to appointment, and thereafter special consideration is to be paid to the claims of candidates who have qualified in local institutions and of those who are natives of India.

Qualifications.—The qualifications are that the candidate must be (a) a British Subject resident in the United Kingdom or in a British Colony or in British India, or a person resident in any territory of any Native Prince or Chief under the auzerainty of His Majesty or Chief under the suzerainty of His Majesty exercised through the Governor-General of India or through any Governor or other officer subordinate to the Governor-General of India. (b) Must be between the ages of twenty-four and thirty at entry. (c) She must be a first-class Medical Woman, i.e., she must possess a medical qualification registerable in the United Kingdom under the Medical Act, or an Indian or Colonial qualification other than L.M.&S. or Licentiate of a Medical College. In India registerable in the United Kingdom under that Act: but this condition does not apply at the original constitution of the Service to medical women in charge of hospitals who, in the opinion of the Central Committee, are of proved experience and ability. (d) The candidate must produce a certificate of health and character. But the Central Committee reserves the power to promote to the service ladies not possessing the above qualifications, but who have shown marked capacity. Members of the Service are required to engage for duty anywhere in India or Burma. Those recruited in England serve for six months, and those recruited in India for three months, in a General Hospital of the Province to which they are deputed. After this period of probation has been satisfatorily passed their appointments are confirmed. The services of Members may be lent to Local or Municipal bodies, or to special institutions, which may be responsible for whole or part of the pay.

Pay.—The rates of pay are as follows:— During probation Rs. 350 per month: thereafter Rs. 400 up to the end of the 4th year: Rs. 450 from the 5th to the 7th year: Rs. 500 from the 8th to the 10th year: and Rs. 550 after the 10th year. But no member can be confirmed in the 400 rupee grade unless she has passed an examination in such vernacular as the Provincial Committee shall prescribe, within one year of her appointment. In addition suitable quarters are provided free of rent: or a house rent allowance to be deter-mined by the Provincial Committee may be granted in lieu of it.

Members of the Service are permitted to engage in private practice provided it does not interfere with their official duties, and the Provincial Committee has the power to determine whether such duties are thus interfered with. Except in very special cases retirement is compulsory at the age of forty-eight. A member whose appointment is not confirmed, or who is diminised in constitution. or who is dismissed, is granted an allowance sufficient to pay her passage to England.

Leave Rules.—(a) Casual Leave, which is occasional leave on full pay for a few days, and is not supposed to interrupt duty. (b) Privilege Leave, which is leave on full pay and is meant to provide a month's holiday in the year. If it cannot be granted during the year, it can be accumulated up to a limit of three months. (c) Furlough, at the rate of two months for each year of duty, the latter including privilege leave and casual leave. First furlough is not granted till after four years of duty, and more than eight months furlough is not granted at one time. Study leave may

Supplying Medical Aid to the Women of India.

This Association, at once one of the most! efficient as it is among the most useful and benevolent institutions in India, is the outcome of the work of the Countess of Dufferin and Ava during the time of her husband's Vice-royalty. The late Queen Victoria drew the attention of the Countess, on the departure

at a time and up to nine months during the whole service. (d) Sick leave, up to a maximum of two years. (e) Extraordinary leave at any time at the discretion of the Central Committee. When on furlough or sick leave the allowances are half the average monthly pay of the six months presence on duty immediately preceding the taking of the leave. There are no allowances during extraordinary leave. A Lady appointed in England receives a sum of £70 to cover her passage and incidental expenses. There are also allowances to cover the cost of journeys by rail and road.

There is also to be a Provident Fund, each member contributing monthly thereto five per cent. of her salary, the Association contributing an equal amount, and each subscriber's account being granted interest on the amount standing to credit at the rate of 4 per cent. per annum, "or at such rate as the Central Committee can invest without risk to the funds of the Association."

The Member loses her contributions if she resign (except on account of ill-health) before completing five years' service, or in the event of dismissal. On retirement after approved service the sum which has accumulated to the credit of the subscriber is handed over to her.

DEFECTS IN THE SCHEME.—The above are the regulations as last published. It is probable that they will have to be altered in details as the authorities who have drawn up the scheme do not appear to have taken into consideration the great increase in the cost of living which of late years has pressed heavily on Europeans in India with limited salaries. The initial salary is inadequate for English ladies in India, and those who enter the service without private means may find themselves unable to resign the service should they find it uncongenial, through not having been able to save sufficient to pay the expensive journey by ship to Europe, the cost of which (second class) is equivalent to a little more than a month's pay. The same low rate of pay may also prevent the members taking the furlough due to them, a matter of great importance seeing that the Indian climate is especially trying to Englishwomen. The furlough rules compare unfavourably with those granted to Englishmen in the corresponding Indian Medical Service, who are entitled to calculate one-fourth of their active service for furlough, whereas the women are only to be granted one-sixth. Moreover the men can accumulate furlough up to two years, the women only accumulating eight months. It is also to be noted that there is only a lump-sum on retirement, nothing in the shape of a pension. It is also to be pointed out that private practice for the English doctor also be granted not exceeding three months precarious and often unobtainable. in India, whether man or woman, is always

plying medical aid to women in this country, and asked her to take a practical interest in the subject. As the result of her enquiries she found that, though certain great efforts were being made in a few places to provide female attendance in hospitals, training schools, attention of the Countess, on the departure and dispersaries for women, and although of the latter for India, to the question of sup- missionary effort had done much, and had

indeed for many years been sending out pioneers into the field, yet taking India as a whole, its women owing to the "purdah" system, were undoubtedly without that medical aid which European women were accustomed to consider as absolutely necessary. In the consider as absolutely necessary. In countess own words written in 1886 after the movement had been started "I found that even in cases where nature, if left to herself, even in cases where matter, in act to inciscin, would be the best doctor, the ignorant practice of the so-called midwife led to infinite mischief, which might often be characterised as abominably cruel. It seemed to me, then, that if only the people of India could be made to realise that their women have to bear more than their necessary share of human suffering, and that it rests with the men of this country and with the women of other nationalities to relieve them of that unnecessary burden, then surely the men would put their shoulders to the wheel and would determine that wives. mothers, and sisters, and daughters dependent upon them should, in times of sickness and pain, have every relief that human skill and tender nursing could afford them......I thought that if an association could be formed which should set before itself this one single object, to bring medical knowledge and medical relief to the women of India, and which should carefully avoid compromising the simplicity of its aim by keeping clear of all controversial subjects and by working in a strictly unsecta-rian spirit, then it might become national, and ought to command the support and sympathy of every one in the country who has women dependent upon him."

Initiation of the Scheme.—Lady Dufferin's plans were warmly received by the public all over India. The scheme was drawn out and published in the different dialects. The all over india. The scheme was drawn out and published in the different dialects. The association was named "The National Association for Supplying Female Medical Aid to the Women of India," and the money for its support, as it was received, was credited to the "Countess of Dufferin's Fund." The affairs of the Association were managed by a central committee of which the Countess of Dufferin during her stay in India was President. Branch Association age that has freshed. Dialect and administrative purposes, but linked with the central committee, were formed in most parts of the country, and the work may be said to have started from August 1885. The objects of the Association are thus set-forth in its publications.—I. Medical tuition, including the teaching and training in India of women as dectors, hospital assistants, nurses, and midwives. II. Medical relief, including the establishments of the control of the co lishing under female superintendence, of dis-pensaries and hospitals for the treatment of to the Viceroy.

women and children; the opening of female wards under women superintendents in the existing hospitals and dispensaries; the provision of female medical officers and atten-dants for existing female wards; and the founding of hospitals for women where specially funds or endowments are forthcoming HI. The supply of trained female nurses and midwives for women, and nurses for children in hospitals and private houses.

Within four years from its inception there were in existence twelve hospitals for women and fifteen dispensaries, most of which were officered by women, and all more or less closely connected with the Association. From the subscriptions collected there was enough to set aside a substantial sum as an endowment fund; and also six medical, twelve nursing, and two hospital assistant scholarships had been provided for.

Growth of Scheme.-The first regular training school in India for the instruction of native pupils in medical and surgical nursing, and in midwifery was established in 1886 by the Bombay Branch of the Association in connection with the Cama Hospital in Bombay. This is a civil institution under Government management, and is solely for women and children of all castes and denominations. In connection therewith is the Allbless Obstetrical Hospital and the Jaffer Suleiman dispensary for women and children. The present physician-in-charge is Miss A. M. Benson, M.D., Lond.

By the end of 1910 there were thirteen Provincial Branches working under the central committee: and attached in some manner, or affiliated to the provincial branches, there were about one hundred and forty Local and District Associations or Committees engaged in furthering the work of the Association. There were one hundred and fifty-eight hospitals, wards, or dispensaries of various kinds for the medical relief of close on one and a quarter million women and children; and the value of the institutions engaged in the work of the Association was estimated at close on fifty lakhs of rupees.

Annual Report.—The Report of the Association is published annually, and can be obtained either from the Superintendent of Government Printing, Calcutta, or from the leading booksellers, the price being one rupee. The map of India published therewith shows the centres worked by the Dufferin Fund uniformly scattered over the Indian Peninsula, and illustrates how the Association has taken root in the country. The Honorary Secretary is Lt.-Col. Sir James Roberts, I.M.S., Surgeon

NURSING.

Whilst India cannot show the complete chain of efficiently-nursed hospitals which exists in England, there has been a great development of skilled nursing of recent years.
This activity is principally centered in the Bengal, Madras, and Bombay Presidencies, where the chief hospitals in the Presidency towns are well nursed, and where large private staffs are maintained, available to the general public on payment of a prescribed scale of Nursing Association, c/o St. George's Hospital

fees. These hospitals also act as training institutions, and turn out a yearly supply of fully trained nurses, both to meet their own demands and those of outside institutions and private agencies. In this way the supply

Bombay. This is composed of representatives of the various Nursing Associations in charge of individual hospitals, and works under the Government. The principle on which the relations of this Association with the Local Associations is governed is that there shall be central examination and control combined with complete individual autonomy in admiristration.

Nursing Bodies.—The Honorary Secretary of the Calcutta Nursing Association is Mr. R. A. B. Reynolds, the Presidency General Hospital. The address of the Mayo Hospital Nursing Association is in Strand Road. In Madras there is the General Hospital, with a staff of 62 nurses, the Government Maternity Hospital, the Caste and Gosha Hospital at Kilipauk, the Royappeta Hospital and the Ophthalmic Hospital.

Bombay Presidency.—The Bombay Presidency was amongst the first in India to realise the value of nursing in connection with hospital work. The first steps were taken on the initiative of Mr. L. R. W. Forrest at St. George's Hospital, Bombay, where a regular nursing cadre for the hospital was established together with a small staff of nurses for private cases. This was followed by a similar movement at the J. J. and Allied Hospitals and afterwards apread to other hospitals in the Presidency. Ultimately the Government laid down a definite principle with regard to the financial aid which they would give to such institutions, agreeing to contribute a sum equal to that raised from private sources. Afterwards, as the work grew, it was decided by Government that each nursing association attached to a hospital should have a definite constitution, and consequently these bodies have all been registered as Associations under Act 21 cf 1860. By degrees substantial endowments have been built up, although the Associations are still largely dependent upon annual subscriptions towards the maintenance of their work. The chief of these Associations are:—

St. George's Hospital Nursing Association. Secretary: D. W. Wilson, St. George's Hospital, Bombay.

J. J. Hospital Nursing Association. Secretary: A. G. Gray, Jamsetji Jijibhai Hospital, Bombay.

Gokaldas Tejpal Hospital Nursing Association. Secretary: Rahimtuliah Currimbhoy.

Cama Hospital Nursing Association. Address—Cama Hospital, Bombay.

Sassoon Hospital Nursing Association.

Address—Sassoon Hospital, Poona.

After further experience it was felt that it is undestrable to have a considerable number of detached and independent nursing associations, training and certifying nurses, without any common standard of entrance, examination, or certification. It was therefore decided to establish the Bombay Presidency Nursing Association which came into existence in the year 1910. This is an Association formed partly of representatives of all affiliated associations and partly of direct representatives of Government, the Surgeon-General with the Government of Bombay always being the chair

man. It is financed partly from the product of endowments and partly from the contributions from the Government of India. If subsequently further funds are needed they are to be provided by contributions from the affiliated Associations.

The principle on which the Bombay Presidency Nursing Association works is a central system of examination, certification and control. It is now the only nursing examining and certifying body in the Bombay Presidency. At the same time, the local associations retain entire charge of their local funds and also entire control of the nurses when they are in their employment. In a sentence, the principle is central examination and certification and local control. By degrees it is hoped to be able to establish the principle that none but nurses certified by this association shall be employed in any Government institution.

The Association commenced its operations on the 1st April 1911. The institutions recognized under the by-laws for the training of nurses at present are—st. George's Hospital, J. J. Hospital, Cama and Allhiess Hospitals in Bombay and the Sassoon Hospital in Poona; and the following for the training of midwives:—The Cama and Allbiess Hospitals and the Bai Mulibasi Hospital in Bombay, and the Sassoon Hospital in Poona.

Address—The Socretary, Bombay Presidency Nursing Association, St. George's Hospital, Bombay.

Lady Minto Nursing Service.—In 1905 there was one organization existing in the Punipab and the United Provinces called the Up-Country Nursing Association for Europeans in India, which was established in 1892. This Association carried out very useful work in certain parts of India, but was hampered by want of funds. For this reason it was found impossible to extend their organisation and the urgent need for a larger number of trained nurses at charges within the reach of all classes was much required. The late Lady Curson worked energetically to provide an enlarged nursing organization, but principally for financial reasons, was unable before leaving India to bring her scheme to fruition. The Home Committee of the existing Association recognizing the need of expension approached Lady Minto before she left England in 1905 and begged her assistance and co-operation. After much consideration and discussion with the Government of India, Lieutenant-Governors and Commissioners of Provinces the present Association was established. In 1906 an appeal was made by Lady Minto to the public both in England and India to start an endowment fund. This appeal was most generously responded to. Each year the endowment fund has gradually increased, and with the assistance of a Government grant, homes for nurses have been established. The original Association formed the clations, the enlarged organisation, by request of the Home Committee, was named "Lady Minto's Indian Nursing Association" carrying on the same work as before, namely, that of selecting suitably trained nurses in England, and making the necessary arrangements for their transfer to India. The report for 1913

shows that the Nursing Sisters attended 505 shows that the Nursing Sisters attended 505 cases, 288 of which were medical, of which 68 were cases of enteric fever. The total income was Rs. 1,15,942, of which Rs. 35,000 was the Government subsidy, and Rs. 49,611 fees earned by Nursing Sisters, Hon. Secretary, Lieut.-Col. Sir J.B. Roberts, C.I.E., I.M.S., Simia, Hon. Secretary, Home Branch, Lieut.-Col. Sir Warren Crooke-Lawless, Kilcrone, Cloyne, Co. & Cork. Co. & Cork.

Nurses' Organizations.-The Nurses' Association of India and the Association of Nursing Superintendents of India are not Associations to employ or to supply nurses, but are organizations with a membership wholly of nurses with the avowed objects of improving and unifying nursing education, promoting esprit de corps among nurses, and upholding the dignity and honour of the nursing profession. The Associations have a membership of 202, including nurses trained in ten or more different President, Miss C. R. Mill, St. George's Hos-countries, Europeans, Americans, New Zeal-anders, Australians and Indians. The Associ- Miss Hawkins, Mission Hospital, Palwal including nurses trained in ten or more different

ation of Superintendents was started in 1905 as the Association of Nursing Superintendents of the United Provinces and the Panjab, but by the next year its membership had spread by the next year its membership had spread over the country to such an extent that the name was changed to include the whole of India. The Trained Nurses' Association was started in 1908, and a monthly Journal of Nursing began to be published by the two Associations in February, 1910. The Associations have since become affiliated with the International Council of Nurses.

Below are given names of Officers, of the Associations :-

Trained Nursing Association of India. President, Miss Bartleet, Parsce General Hospital, Bombay; Hon. Secretary and Treasurer, Mrs. Davies Simon, Sandhurst House, Bombay. Association of Nursing Superintendents.

Indians Abroad.

The Indian is naturally averse from emigra-tion beyond the seas. Nevertheless there are some hundreds of thousands of Indians resident in other lands as labourers, shopkeepers or professional men. Their total number rela-tively to the population of the Indian Empire is very small being something under two million. In itself, however, it is considerable; and it acquires an extrinsic importance from the social and political issues involved in the settlement of Indians, either as indentured labourers in Crown Colonies, or as free residents in selfgoverning countries.

The right to migrate.—From the Imperial standpoint the case of Indian migration to the self-governing Colonies is much the more important. During the last two years the problems arising therefrom became acute. There were two centres of difficulty—South Africa and British Columbia. In each country the situation involved particular local problems of extreme difficulty. But before passing to a discussion of them it is necessary to refer to the larger question of the right of migration within the Empire. The intense feeling aroused in India by the disabilities suffered by Indians in the two countries named was primarily due to the belief that Indians were being denied the common rights of British citizenship. Without attempting to define the term "British citizenship," which is not so easily susceptible of definition as may be imagined, it must suffice to observe that unrestricted migration within the Empire does not appear to be the common right of His Majesty's subjects. The laws of the Dominion of Canada and the Commonwealth of Australia confer powers of exclusion of would-be immigrants hailing from any part of the Empire. These laws have been enforced against Englishmen on various grounds. The ground of exclusion is usually economic, and it is on that ground that the Colonial objection to unrestricted immigration from India operates. It is unfortunately inevitable that the problem assumes in the popular mind a racial com-plexion. But in actual experience it is the clash of economic interests and the possible

political difficulties involved in the settlement of Indians in large numbers in the self-governing Colonies which the statesmen of the Empire have to take into account.

In South Africa the trouble gathered round the disabilities of Indians already settled round the disabilities of Indians already settled there. The question of immigration restrictions, though important, held a less prominent place in the agitation. The most acute point of the controversy was the annual £ 3 head tax in Natal. Restrictions on the migration of Indiaus from one State of the Union to another was another sore point. The requirement to take out trading licenses was also felt to be a vexatious and invidious distinction between Indian and European traders. While the controversy was at its height, an Act was passed in the Union Parliament, restricting entry into South Africa to the wife or child of a lawful immigrant or resident who was the a lawful immigrant or resident who was the wife or child of a monogamous marriage. a case brought before the courts it was decided that the only wife of a marriage solemnised according to the rites of a religion permitting polygamous marriages could not be admitted. The lenders of the agitation in South Africa adopted passive resistance tactics, which brought large bodies of Indian workmen in Natal into conflict with the police. The situation became acute, and a strong demand arose in India for the appointment of a Government in India for the appointment of a Government. Commission to enquire into the whole question. The Union Government appointed a Commission, and invited the Government of India to send a representative. Sir Benjamin Robertson, Chief Commissioner of the Central Provinces, was selected. The Commission reported on the whole favourably to the Indians. It recommended the repeal of the £3 head tax and the removal of restrictions on migration within the removal of restrictions on migration within the Union.

In British Columbia, the trouble over Indian immigration came to a head in the early part of this year, when a ship-load of Indians was despatched direct from the Far East to Vancouver. It was held up in the harbour there for several weeks. The passengers were not allowed to land. An appeal to the Canadian courts resulted in the rejection of their claim, and eventually they were shipped back to India. The arrival of the Komagata Maru in Calcutta on September 26, 1914, was the occasion of a most lamentable incident. Anticipating an attempt to organise a political demonstration, the authorities provided special trains to convey the returned immigrants to their homes in the Punjab, and had taken power, under Ordinance V of 1914, to require them to do so; some sixty men immediately proceeded to their homes, but the balance under the leader, Gnrdit Singh, endeavoured to force their way to Calcutta. They were turned back by the Military, and whilst arrangements were being made for a second special train, opened fire on the Police and Officials. The Military dispersed the immigrants by fire, and the majority were afterwards arrested. Sergt. Eastwood, Calcutta Police, and Mr. Lomax, of the E. B. S. Railway, were killed; the Punjab Police had one killed and six injured; sixteen rioters were killed, as well as two onlookers. The Government of India appointed a comission under the Presidency of Sir William Vincent to investigate the matter and it took evidence in Calcutta and the Punjab.

There are some 4,000 Indians already settled in British Columbia, chiefly Sikhs. They work as agricultural labourers, in factories and lumber yards, and also on the railways. The desire amongst them to bring their wives and families out from India points to the fact that they are fairly prosperous and find the conditions of life in the Colony agreeable. The attitude of the Colonial authorities towards them is governed by the general objection to Asiatic immigration. It is felt that the unrestricted entry of Asatics would threaten the existence of British Columbia as a "White man's country." The Immigration of Japanese and Chinese is regulated by special treaties with their Governments. The number of Japanese is limited to a few hundreds annually. Chinese immigrants pay a head tax of 500 dollars on entry. In a speech before the Indian Legislative Council in August of this year H.E. the Viceroy foreshadowed a policy of negotiation with the British Columbia authorities with a view to an arrangement on similar lines to that existing with Japane.

An exaggerated danger.—Making every allowance for the Colonial standpoint, those acquainted with the internal condition of India cannot but feel that the fears that the self-governing colonies may be deluged by Indian immigration are greatly exggerated. The total number of Indians resident out of India is under two millions, and of these the majority are to be found in tropical countries. Ceylon alone has 900,000 of them. There is a quarter of a nillion in British Guiana and the West Indies, and 230,000 in the Straits Settlements and Malay States. Of the self-governing Colonies South Africa has by far the largest share, her Indian population being a little under 160,000. Natal slone accounting for 183,000. But this is not the result of ordinary micration. The nucleus of the South African Indian community was formed artificially by Natal herself. Until 1911, when it was stopped by the Governent of India, there was for many!

years a steady stream of indentured immigration into Natal to supply labour to the sugar and other industries of that colony. The natural increase of the Indian population in South Africa is now much larger than the increase by immigration. In the whole Australian Commonwealth there are not more than 7,000 Indians, The Dominion of Canada has 4,500 in all. The significance of these trifling totals must be viewed in the light of the conditions prevailing in India. Here, it is true, there is a vast population. Were these 300 millions subjected to the economic conditions of Europe, and were they imbured by the adventurous and ambitious spirit of Europeans, there would be good ground for alarm in the Colonies at the possibility of an overwhelming influx of Indians. But those are precisely the conditions that do not obtain in the Indian Empire. The demand for labour in India is always greatly in excess of the supply. The tea-planters of Assam are obliged to compete with the Crown Colonies in an elaborate system of cooly recruitment. Labour-shortage is a chronic difficulty with the cotton mills of Bombay. As industrial expansion proceeds and agricultural methods improve, as more land is brought under cultivation, there must be a diminishing likelihood of emigration from India on any large scale. Add to this the inherent reluctance of the Indian to go far from home, and it will be apparent that the danger of "white men's countries" being swamped by Indian immigrants is at the least remote. It is never likely to assume such proportions as would pass the wit of statesmen

Indentured Emigration.—The institution of indentured labour in the tropical colonies of the Empire is one of long-standing. As far back as 1844 indentured emigration from India to the British West Indies was in progress under Government control. In the case of several of the tropical colonies there has been no interruption since then in the steady inflow of several thousands of Indian labourers annually. In Mauritius, the Straits Settlements, the Federated Malay States and Natal the system for various reasons has come to an end; but in all those countries there is now a large population of Indians, permanent or temporary, engaged as free labourers or in independent positions. The principal colonies in which indentured emigration still prevails are British Guiana, Trinidad and Fiji. Even here, however, there has been a progressive decline during recent years, owing in part to the increased difficulty of recruiting in India. This difficulty arises entirely from the growing demand for labour within the Indian Empire, consequent upon industrial expansion.

industrial expansion.

The indentured system has been the subject of much controversy. It is disliked in India and by some people in England, because it seems to present features analogous to slavery—in that for the term of his indenture the labourer is not a free agent; he is ad scriptus slebae, and bound to serve the employer to whom he is assigned on terms which are absolutely fixed. In the colonies themselves the system is unpopular on two grounds—(1) it tends to depress the current rate of wages, (2) only a minority of the time-expired coolies become permanent settlers, the majority claim-

ing their return passage and taking money out of the colony in the form of savings. From the point of view of the labourer himself, the indentured system, if it has any true resemblance to slavery, is a kind of bondage that is easily supportable. He is supplied with a free dwelling under highly sanitary conditions, his wages are fixed on the basis of the rate prevailing in the open market; no deductions are to be made therefrom for rent, hospital accommodation, medical attendance or medicine, which the estate proprietors are bound to provide. Free schooling is available for his children; and if, at the end of his indenture, he elects to remain in the Colony he is given a free grant of Government land. These are the conditions prevailing in British Guiana; but, with the exception of the grant of land, they are similar to those in other colonies where indentured immigration is in force. The permanent Indian population in British Guiana is 127,000; in Trinidad 113,000, in Fiji 40,000, in Mauritius 258,000 and 113,000 in Natal. Other colonies, such as Jamaica and Dutch Guiana (Surinam) have small communities, amounting in each to a few thousand only of time-expired Indian coolies. Ceylon, the Straits Settlements and the Federated Malay States continue to attract Indian labourers, chiefly from Southern India, although no indenture system now exists in those countries.

The Recruitment of indentured coolles in India is carried on by agents employed by the colonies. Each colony, or group of colonies, maintains an Emigration Agent in India at a fixed salary. These Agents are officially recognised by the Government of India. They have a staff of sub-agents under whom a number of recruiters are constantly at work. The most active recruitment is carried on in the United Provinces and the more thickly populated parts of Madras Presidency. Each recruiter is licensed by the Protector of Emigrants appointed by the Protector of Emigrants appointed by the Provincial Government in India. The licenses are renewable annually, and they must be countersigned by the Magistrate of the District in which the license operates. The Magistrate's countersignature may be cancelled at any time for a breach of the recruiting regulations. The sub-agent receives from the colony employing him Rs. 25 for every man and Rs. 35 for every woman engaged. From this sum the sub-agent has to pay the recruiter himself. The recruits are first drafted to a sub-depot in their own part of the country. They are conveyed thence to the main depot at the port of embarkation. These depots are under the control of the Protector of Emigrants, whose duty it is to ascertain whether the coolies are willing to emigrate and understand the nature of the contract into which they have entered. He is required to assist and advise them to the best of his powers. He

conveyance of the cooles to their destination, and to see that the regulations governing the accommodation on board are duly compiled with. Each emigrant undergoes a medical examination before embarking. On arrival at the port of destination the emigrants are met by an official of the colony, who is styled the Immigration-Agent-General. His duties are similar to those of the Protector of Emigrants in India with the important addition of supervising the conditions of labour on the plantations. The Government of India may prohibit emigration to any colony in which the rate of mortality amongst the indentured cooles is unduly high, or where proper measures for their protection have been neglected, or the agreements made with the coolies have not been fulfilled. Indentured emigration to Natal has been stopped by the Government of India in consequence of complaints received from that country as to the treatment of the coolies.

Emigrant Ports.—The ports at present used for the despatch of the emigrants are Calcutta, Madras, Bombay, and Karachi. Up till 1884 emigrants were despatched from the two French Settlements of Pondicherry and Karikal; but since that date, with the exception of the year 1888-89, emigration has not been carried on at these Scttlements. In 1912-13, 8,208 emigrants, or 65 per cent. of the total number leaving India, were shipped from Calcutta. By far the greater part of these came from the United Provinces of Agra and Oudh, which accounted for some 6,400. Trinidad, Fiji, Demerara and Jamaica are the principal countries to which emigrants from Calcutta were sent. The number of coolies who left Madras was 3,677 or 29 per cent. of the total, all for Fiji. They were drawn from a large number of districts in Madras, the largest number being supplied by Malabar, North Arcot, Vizagapatam, and Godavari. For several years now the number of emigrants leaving India via Bombay habeen insignificant. In 1912-13 the total number was only 250, of whom only 12 went to Mombasa and 225 to the Persian didf Ports. Karachi appeared for the first time as an emigration port in the year 1897-98, when 320 emigrants were despatched to Mombasa for work on the Uganda Railway. In the three following years over 27,000 male labourer left Karachi for this purpose. Since then only a few artleans recruited for the Uganda Railway have left Karachi. The emmigrants from Karachi come mainly from the Punjab and Sind.

The number of emigrants leaving in any one year appears to be based on the demand for labour rather than on any internal causes in India, for no close connection can be traced between the prices of food-grains in India or the birth-rate in the different provinces and the number of emigrants.

INDENTURED EMIGRATION STATISTICS.

STATISTICS relating to indentured emigration, carried on under the Indian Emigration Act (XXI of 1883 repealed by XVII of 1908) and rules framed thereunder relating to the emigration of natives of India, are given below. It may be explained that certain persons who proceed to the colonies or other

foreign countries without coming under the operation of the Emigration Act, as for instance, in the capacity of shop assistants or personal domestic servants, are included in the statistic. The figures take no account of the numbers who leave India as passengers under the Native Passenger Ships Act, nor of persons who leave

India on pilgrimage to the holy places in Arabia under the Pilgrim Ships Act (of whom small under the Pilgrim Ships Act (of whom small but uncertain numbers settle out of India), nor of persons who go out of or come out to India by ship as ordinary passengers every year.

The number of "Emigrants" in the sense explained above, who left annually during the twenty-seven years 1886-87 to 1912-13 and the number of returned emigrants during the same proind amounted to the same period, amounted to-

igra-	Number return- ed.
ed.	eu.
2,466	7,839
4,820	6,061
9,123	6,237
7,728	9,668
5,009	7,117 6,299
2,658	
	4,192 2,658

The Average Annual Number of Emi-grants for the 27 years is 15,651, and the average number of emigrants that returned in these years is 7,242. Natal has received the largest number of emigrants—an average of 4,518 gest number of emigrants—an average of 4,518 a year, but emigration to that colony has been prohibited by the Government of India with effect from 1st July, 1911. The second largest number has gone to Demerara, which has received over 3,200 a year. Trinidad receives the next largest number, over 2,400 a year. Mauritius has received about 1,150 coolies a year on the average but the vertaining between year on the average, but the variations between one year and another are very great. Indians and their descendants now constitute 70 per cent. of the population of Mauritius—2,58,000 out of a population of 369,000. There has been no emigration to the colony since 1912, it having been decided by the Secretary of State for the Colonies, after consideration of the recommendations of the Committee on Emigration from India to the Crown Colonies, in regard to Mauritius, that the system of introducing Indian labourers into that colony under indenture should be discontinued. Over 1,700 emigrants go annually to the Fiji Islands.

Indians in Great Britain.

Close on sixty years have gone by since the cially rapid since 1904 or 1905. There was Parsi community, in the persons of Mr. Dadabhai Naoriji and other members of the firm ago, when many youths (some of them illof Cama and Co., led the way in the residence of Indians in England for business purposes. or indians in England for Dusiness purposes. This lead it has since maintained, though there are both Hindu and Mahommedan business men firmly established there. Nor are the professions unrepresented, for there are in London practising barristers and solicitors of Indian birth, and at least one Indian successful in the Civil Service examination elected to work in England lastend of extensing to be to work in England instead of returning to his native land. The early years of the present century have seen the gathering of a new Indian element in permanent residence—that of retired officials (particularly of the I. M. S.) and business men, or people of independent means who from preference, or in order to have their children educated in England, leave the land of their birth and seldom if ever visit it again. Further, the increasing stream of Indian summer visitors, includes wealthy people who return as regularly as the swallows in spring, and spend as much time in England or on the Continent as in their pative land. While the mon adopt European dress so fully that a turban is a rare sight even at Indian gatherings, the ladles wisely retain their graceful Eastern habiliments, and it is astonishing to note on occasions how large is the number of Indian women so attired it is possible to collect together at the Criterion or at 21 Cromwell Road.

The Students.

But it is the student community which conquarter of a century, the increase being espe- other centres.

ago, when many youths (some of them ill-prepared) were hurried off to the Inns of Court in order to be entered before more stringent rules for admission from the oversea dominions came into force. While this sudden expansion has been worked off to a large extent, there has been growth of numbers in other directions, and particularly that of the tech-nical and engineering schools and classes, with the result that the aggregate numbers (allowing for the temporary check caused by the European War) may be estimated at between 1,500 and 1,600. This total does not include more than a few of the growing number of youths of good family, some of them heirs of Native States, admitted into our public schools, including Eton and Harrow. It does not comprehend Burmese students of whom there are about 80. Nor does it take full account of female students in schools and colleges. While it is not possible to obtain exact and complete records, it is certain that the young Indians of both sexes and all ages under instruction in the British Isles is well over 2,000.

It is, however, with the 1,500 or 1,600 young men, almost all far removed from parental oversight and control that the organization set up by the Secretary of State for India has to deal. Of these on 30th June last 288 were at the Middle Temple, 173 at Lincoln's Inn, 98 at Gray's Inn and 50 at the Inner Temple, Alterother belorking beautiful at the Secretary to be set in the secretary to be set in the secretary to be set in the secretary to the secretary to be set in the secretary to be set in the secretary to be set in the secretary to be set in the secretary the secretary the secretary that the secretary the secretary that the secretary the secretary that the secretary the secretary that the secretary that the secretary the secretary that the secretary that the secretary the secretary that the secr together, including technical and medical students, there must be 700 or 800 in London. Edinburgh comes next with over 200, Cambridge with 100 Occasion. stitutes the greatly preponderating element with 100. Oxford with 60, Glasgow with 70 and and creates an Indian problem. Its numbers Manchester with 80, while there are smaller have multiplied ten or twelvefold in the last numbers at Birmingham, Leeds, Sheffield and

The Bureau.

It is well known that until a few years ago the young Indians, apart from inadequately-supported unofficial effort and the chance of supported undical effort and the chance of coming under the influence of English friends of their families, were practically left to their own devices. But in April 1909 Lord Morley, as a result of the investigations of an India Office Committee, created for their benefit Omes Committee, created for their benefit a Bureau of Information and appointed Mr. T. W. Arnold to the charge of it under the title of Educational Adviser. The Bureau was located in due time at 21 Cromwell Road, together with the National Indian Association and the Northbrook Society, which were thus given spacious quarters for their social work among the young men, without incurring what would otherwise have been the prohibitive cost of heavy rent. Lord Morley also estab-lished an Advisory Committee, with Lord dampthill as chairman, mainly composed of influential Indian residents, and in India corresponding provincial and district committees were formed to help and advise intending were formed to help and advise intending students. The work of the Bureau rapidly expanded, and in consequence Lord Crewe in 1912 re-organised the arrangements under the general charge of a Secretary for Indian Students, Mr. C. E. Mallet. While Mr. Arnold continued to look after the Indian students and to act as guardian when so desired by the parents, local Advisers were appointed at the provincial universities. Owing to pressure of work connected with the War, Lord Ampthill has resigned his Chairmanship of the Advisory has resigned his Chairmanship of the Advisory Committee.

Two strange delusions (in some cases they may be called deliberate misrepresentations) have been propagated in reference to these arrangements. One is that the India Office set up the Bureau in order to track down the wave of seditious sentiment which culminated wave of sections sentiment which cummated in the assassination of Sir Curzon Wyllie four years ago. As a matter of fact the Bureau was established three months before the commass catalogue three months before the com-mission of that crime, and was proposed at least a year previously. The object as *The Times* observed in September 1908 was not "to put these young men into political leading strings, nor officially to restrict their liberty. It lies in doing all that is possible to facilitate their educational progress and their general welfare, and in bringing them under wholesome and helpful influence." Mr. Arnold accepted his appointment on the distinct understanding that there would be no sort of kind of esplonage; and Mr. Mallet told a gathering of students in 1913 that it was a complete delusion to regard the Bureau as an instrument of espionage. He would never have anything to do with it if that were its character.

Opening Closed Doors.

It is no less of a delusion for the students to hold, as some of their elder fellow-countrymen have encouraged them to do, that the Bureau is responsible for restrictive rules and regulations of colleges and other institutions, or at any rate for their continuance in spite of protests. The fact of the matter is that in consequence of the wave of disaffection to which reference has been made, as well as of various practical difficulties arising from the

growth in numbers of Indian applications for admission, many of the universities and other educational institutions had passed other educational institutions had passed restrictive, and in some cases almost prohibitive, regulations affecting Indians when the Bureau came into being. The authorities in question are independent of outside control, and of no department in Whitchall are they more so than of the India Office. The Bureau cannot do more than approach them with requests and suggestions for the benefit of Indians, or with undertaking the difficult to Indians, or with undertakings to afford the sponsorship which in many cases is made a condition of admission.

Since Mr. Mallet told the students face to face that so far from blocking the way, as hostile observers have alleged, the Bureau has been singularly successful in opening closed been singularly successful in opening closed doors and mitigating any real grievances, there has been no serious effort to question the many proofs he gave. He intimated he would welcome the co-operation of any organization for promoting the educational interests of the students. But it is easier to make eloquent speeches and pass resolutions than to study rules and regulations and represent to the authorities with moderation and clearness when they and manufacter and clearness where they need amendment: and such organizations have so far been infructuous. such organizations have so far Deer intructious.

A more hopeful project, is the London Indian
Association, established to combine the students together in efforts for their social and
intellectual welfare originated by Mr. Jinnah,
and which has the co-operation of leading permanent residents.

It is also satisfactory that the careful inquiries of Sir T. Morison's Committee on State Technical Scholarships have shown that the difficulties encountered by young Indians in supplementing academic instruction by technical experience in factories and workshops are general in character, being also applicable to their English contemporaries, and that there is "on the whole very little evidence of a racial prejudice against Indians." And no youth need come here (as was so frequently the case in the past) under any misapprehension as to the facilities for his education and their as to the facilities for his education and their limitations. The excellent "Handbook of Information for Indian Students" issued by the National Indian Association and the Advisory Committee, now in its lifteenth edition (1914) supplies all relevant facts and advice; and on personal details, the local Advisory Committees can be consulted.

Persuasion not Coercion.

Persuasion not Coercion.

Another mistaken notion, held by some Anglo-Indians of the old type, is that the Bureau could easily exercise disciplinary control over all young Indians in London. The fact is that except to holders of Government and some Native State Scholarships it has no disciplinary authority save when parents place their sons under guardianship of Mr. Arnold or a provincial Adviser, and even in these cases the control can only be excreised in connection with the administration of the regular allowances. Undoubtedly the Bureau has had a most beneficial influence in saving scores of young men non falling into dobt, so the saving that scores of young men from falling into debt, intemperance or marital folly; but this has been exercised not coercively but by triendly

personal contact and keeping before them the obligation and necessity from every point of view of adhering to the purposes of educational equipment for which they have gone to England. From the first there has been no thought of exercising compulsion direct or indirect, to bring students under the Educational Adviser; the keynote of the scheme has been that of enabling them to make the control of the state of facilities for their welfare at their own. use of facilities for their welfare at their own use of facilities for their wellare at their own discretion without any apprehension of constraint or coercion. From this point of view the re-constitution on a more definite and systematic basis of the Advisory Committee, and its careful investigation of complaints through a Sub-Committee are satisfactory. General been considerable; and that they have in them section of the Officers' Training Corps.

personal contact and keeping before them the | the promise of increasing good in the light of accumulated experience.

The removal of misunderstanding and pre-The removal of insancessations and pre-judice should be materially promoted by the changed angle of vision on both sides India's magnificent response to the call of Empire in the European War is bringing about. Largely under the influence of Mr. M. K. Gandhi, who arrived from South Africa at the outbreak of the war, many students offered their services unconditionally to the authorities, with the result that an Indian Field Ambulance Corps was organised and sent to the front to serve with the Indian troops. In several instances young Indians enlisted in "Lord Kitchener's army," being readily admitted on satisfying the usual physical tests, and at some of the through a sub-communication of the difficulties of the problem, the success attending the arrangements initiated in April 1909 has

MILITARY FLYING SCHOOL.

The Government of India nave sanctioned (event of death within seven years as the result the establishment of an India Central Flying School, at Sitapur, with effect from the 1st October, 1913. The object of this school is to gain experience in aviation under Indian conditions with a view to its ultimate expansion as a training establishment. The Commandant has entire control of the school under the direct orders of Army Headquarters. The school consists of a commandant and three flying officers with the necessary medical and subordiordinate staff consists of civilians only engaged on contract for specified periods.

Conditions of appointment.—The qualifying conditions of appointment for the commandant, and flying officers, are as follows:—

(1) To hold a Royal Aero Club's pilot certificate; (2) to be recommended by his Commanding officer; (3) medical fitness (as stated below); (4) not less than two years' service (British service), three years' service (Indian Army). In addition Indian Army officers must have qualified for "final retention"; (5) not above the rank of Captain; (6) a natural bent for the mechanical; (7) to be unmarried. (1) To hold a Royal Aero Club's pilot certi-

Officers are appointed to the staff of the school for a period of four years from the date of joining, the appointment being probationary for the first six months, they will be seconded in their regiments. An officer who is found at any time to be unfitted for the duties of the appointment will be required to rejoin his Regiment. If injured on flying duty the Commandant and flying officers will be eligible for ratulties and pensions under the conditions and at the rates laid down in Army Regulations, Indis, Yolume 1, Paragraph 748 et seq. For officers who have been wounded in action in the

of injuries so received pensions, etc., may be awarded under the conditions applicable to the case of officers killed in action or dying of wounds received in action.

Equipment.-The Maharaja of Rewah has generously presented an aeroplane to the Central Flying School. This is of Royal Aircraft factory design and has a 70 h. p. Renault air cooled motor, giving a machine speed of 72 miles per hour. Other machines consist of two 80 h. p. Gnome and two Mautice Farman biplanes (70 h. p. Renault). The school possesses a portable hangar which will remain erected on the aerodrome until permanent sheds are ready for occuration. for occupation. The portable hangar will then become available for housing machines. The aerodrome nt Sitapur is in area roughly of 400 acres. The first flights were made on February 24, 1914, when a Rewah acroplane was used and each officer flew in turn for a short time.

Staff of the school.—The staff of the Indian Central Flying School consists of:—
1 Commandant at Rs. 1,200 per mensem and 3 flying officers at Rs. 800 each per mensem.

British Subordinates: 1 engineer, 1 sailmaker, 2 machinists, 2 riggers, and 1 repair shop mechanic.

Indian Subordinates: 1 carpenter, 1 sail-maker, 6 fittels, 2 riggers, 2 repair shop mechanics, and 1 storekeeper.

Commandant, Capt. S. D. Massy, 29th Punjabis Instructors-

Capt. C. G. Hoare, 39th Horse.

Lt. H. L. Reilly, 82 Punjabis.

I.t. C. L. N. Newwall, 2nd Gurkha Rifles,

Appointments to the Indian Services.

Full details of the regulations governing appointments to the Indian Services are published in the Iudia Office List. The more essential particulars, except as regards the Civil Service and Police,—of which fuller details are given elsewhere in this book—are given below.

Indian Agricultural Service.

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The appointments in the Indian Agricultural Service include those of Deputy Director of Agriculture, Agricultural Chemist, Economic Botanist, Mycologist, Entomologist, Professors of Agriculture, Chemistry and Botany at Agricultural Colleges and the like Serve of these cultural Colleges, and the like. Some of these are included in the Imperial Department of Agriculture under the direct control of the Government of India, but the majority are included in the Departments of Agriculture of the several provinces of India. In some cases candidates will be appointed direct to these posts, but in most cases they will be appointed as supernumeraries, will undergo a further course of training in India in Indian agriculture, and will be appointed to posts, for which in the opinion of the Government they are considered suitable, on the regular establishment sas vacancies occur. Appointments are made by the Secretary of State for India as occusion may require. Candidates must, as a rule, be not less than 23, nor more than 30 years of ago In selecting Candidates for appointment, weight will be given to the possession of (a) a University degree in honours in science or the diploma of a recognised school of agriculture or other like distinction; (b) qualifications in a special science according to the nature of the vacancy to be filled; (c) practical experience. Importance is also attached to bodily activity and ability to ride, and selected Candidates for local allowances conditional on approved have to undergo an examination by the Medical good work, and the Government reserves to Board of the India Office as to their physical itself the fullest discretion as to granting, withfitness for service in India.

The salary attached to posts in the Indian Agricultural Service will ordinarily be:— Rs.

For the first year 400 per mensem. .. 430 second year third year 460 fourth and subse-

quent years .. 500 rising by annual increments of Rs. 50 a mouth to Rs. 1,000 a month.

Candidates who are required to undergo a further course of training in India as explained above will be appointed on this of salary, commencing on a pay of Rs. 400, Where, for special reasons, a Candidate is recruited for direct appointment to one of the regular posts under paragraph 1, his initial pay will be determined with reference to the special qualifications on the length of European exquantizations on the tengan of netopean ex-perience required for the appointment for which he is specially selected, but his subsequent increments of salary will be regulated by the foregoing scale. In addition to this scale of pay, officers filling appointments directly under the Government of India, as distinguished from appointments under Local Governments (but not including officers holding supernumerary posts, the post of Inspector-General, or the post of Director of the Pusa Institute) will be eligible holding, or withdrawing them.

Indian Civil Veterinary Department.

The officers of the Indian Civil Veterinary Department perform or supervise all official veterinary work in India, other than that of the Army, and are debarred from private professional practice in India. Their duties may be divided into three classes, under the following heads :-

(a) Educational work in veterinary colleges :

(b) Horse and mule breeding ;

(c) Cattle disease and cattle breeding.

Appointments to this Department are made, as vacancies occur, by the Secretary of State for India. Candidates must not (except on nor num. Candidates must not textuple on premining of the form of the end of the 20th special grounds to be approved by the Secretary year of service; after the beginning of the 21st of State) be over 26 years of age, and must over Rs. 1,200 a month.

possess a diploma from the Royal College of Veterinary Surgeons. Evidence of a knowledge of bacteriology, and of capacity for carrying out original research, will be specially taken into account in estimating the claims of candidates. Good health, a sound constitution, and active habits are essential, and candidates must be certified by the Medical Board of the India Office to be physically fit for service in India.

Pay will be as follows :- On arrival in India Rs. 500 a month, rising by Rs. 40 each year to Rs. 1,100, which rate will continue from the beginning of the 16th to the end of the 20th

Ecclesiastical Establishments (Church of England).

Appointments of Chaplains on Probation are made from time to time by the Secretary of State for India, as vacancies occur. Candi-dates for these appointments must be Priesta who are between the ages of twenty-seven and thirty-four years, and have been for three years altogether in Holy Orders. Applications for nominations should be submitted to the Sccretary of State.

A Chaplain will be on probation for three years (a): if confirmed in his appointment at the end of that period, he will be admitted as a Junior Chaplain.

The salaries of Chaplains are:

Senior Chaplains, Rs. 10,200 per annum for five years, and then Rs. 12,000 per

Junior Chaplains, Rs. 6,360 per annum for five years, and thereafter Rs. 8,160 per annum until promoted to be Senior Chaplains.

Chaplains on Probation, Rs. 5,760 per annum.

A Junior Chaplain becomes a Senior Chaplain after ten years' service, excluding the period of probation.

The retiring pay of Chaplains is regulated by On Medical Certificate. the following scale:-After 18 years' actual residence in India, including the period of Per annum. £ s. d. probation After 23 years' service, with an actual residence in India of 20 After 13 years ditto .. 173 7 уеага. including the period of After 10 years .. 127 15 0 .. 365 0 0 probation

Ecclesiastical Establishments (Church of Scotland).

The appointments of Chaplains of the Church of Scotland on probation are made from time to sime by the Secretary of State for India, according as vacancies occur. Candidates for these appointments must have been licensed for three years and be under thirty-four years of age. Applications for nominations should be submitted to the General Assembly's Committee on Indian Churches along with testimonials based on a personal knowledge of the candidate's qualifications. Chaplains will be on probation for three years (a); if confirmed in their appointment at the end of that period, they will he admitted as Junior Chaplains.

The salaries of Chaplains are: Senior Chaplains, Rs. 10,200 per annum, and then Rs. 12,000 per annum. Junior Chaplains, Rs. 6,380 per annum for five years, and thereafter Rs. 8,160 until

promoted to be Senior Chaplains.

Chaplains on probation, Rs. 5,760 per

Junior Chaplain becomes a Serior Chaplain after 10 years' service, excluding the period of probation.

The retiring pay of Chaplains is regulated by the following scale :-

Per annum s. d. After 23 years' service, with an actual residence in India of 20 years, including the period of .. 365 probation On Medical Certificate.

After 18 years' actual residence in India, including the period of probation 292 ditto 173 After 13 years' After 10 years' .. 127 16 ditto ...

Educational Appointments.

The Indian Educational Service comprises those posts in the Educational Department to which appointments are made in England by the Secretary of State, and is thus distinguished from the Provincial Educational Services, which are recruited exclusively in India. It consists of two branches, the teaching, including Principalships and Professorships in the various Government Colleges and Head Masterships an certain High Schools; and the inspecting, including Inspectorships of Schools; but officers may be transferred at the discretion of Government from one branch to the other, and the conditions of pay and service are the same for both. It also includes certain special appointments, such as those of Superintendents of Schools of Art, for which special qualifications are required and special terms of engagement are prescribed. Officers of the teaching ment are presented. One of the ceating branch may be required to undertake duties in connection with the supervision of students in hostels or boarding houses, and with the directions of the connection with the direction of the connection of the tion of their studies and recreations. tion of their studies and recreations. Appointments are made by the Secretary of State as occasion may require. Only laymen are eligible, candidates must as a rule be not less than 23, nor more than 30 years of age, but exceptions are sometimes reaches. ceptions are sometimes made as regards the maximum limit only. Candidates must be British subjects, and must furnish evidence of having received a liberal education. In selecting candidates for appointment,

weight will be given to the possession of (a) a weight will be given to the possession of (a) a University degree in Honours, or equivalent distinction; (b) experience as a teacher; (c) qualifications in special subjects, depending on the nature of the vacancy to be filled. In selecting candidates for inspecting appointments, weight is given to linguistic taient, capacity for organisation and knowledge, practical or theoretical, of educational methods.

The salaries paid are as follows:—A newly appointed Inspector or Professor receives Rs. 500 a month, rising by annual increments of Rs. 50 a month to Rs. 1,000 a month. When this point has been reached, the increase of his emoluments depends upon his promotion, and takes the form of allowances rarging from Rs. 200 to Rs. 500, in addition to the salary of Rs. 1,000. There are at present 30 such allowances. There is in every Province a Director of Public Instruction. The posts of Director of Public Instruction are reserved for the Indian Educational Service so long as members of that Service can be found well qualified to fill them. Their pay differs in different Provinces:-

Three receive a salary of Rs. 2,000-100-2,500 a month.

Two receive a salary of Rs. 2,000 a month. One receives a salary of Rs. 1,750-50-2,000 a month.

Two receive a salary of Rs. 1,500-100-2,000 a month.

One receives a salary of Rs. 1,250 rising to Rs. 1,500 a month.

Head Masters are appointed on an initial pay of Rs. 500, rising by annual increments of Rs. 50 a month to Rs. 1,000 a month, except in cases in which Local Governments may prefer to recruit on the scale of Rs. 500 a month, rising by annual increments of Rs. 50 a month to Rs. 750 a month. Head Masters are eligible for subsequent transfer to inspectorships or, if qualified, professorships. In all cases, increments o salary are given for approved service only.

For the appointments dealt with above men only are eligible. There are, however, some posts in the Indian Educational Service which are open to women and these comprise appointments as Inspectresses of Girls' Schools, Principals of Training Colleges, and occasionally Headmistresses of Schools. The salary attached to these appointments is ordinarily Rs. 400 a month, rising by annual increments of Rs.20 a month to Re. 500 a month.

The Secretary of State is sometimes requested by the Government of India to supply persons | The salary is Rs. 500 a month to fill temporary vacancies in the Indian Edu-

cational Service, generally professorships in Colleges. Such appointments are made for not less than a university year (about nine months), with a prospect, in the case of thoroughly approved service, of future selection to fill either a temporary or a permanent appointment. The salary is Rs. 500 a month, rising by annual

Indian Forest Service.

The Secretary of State for India in Council ed Assistant Conservators in the Indian Forest makes appointments of Probationers for the Indian Forest Service, according to the numbers annually required.

Candidates must be not less than 19 but under the age of 22 years.

Candidates must have obtained a degree with Honours in some branch of Natural Science in a University of England, Wales or Ireland, or have passed the Final Bachelor of Science Examination in Pure Science in one of the Universities of Scotland. A degree in Applied Science will not be considered as fulfilling these conditions. Candidates will be required to produce evidence that they have a fair knowledge of either German or French.

The orlinary period of probation will be two years. During that time probationers will be required to pass through the Forestry course at one of the following Universities—Oxford, Cambridge or Edinburgh (subject to the arrangement of a suitable course)—becoming members of that University, if not so already; to obtain the Degree or Diploma in Forestry which it grants; and to satisfy such other tests of proficiency as may be deemed necessary.

During the vacations, the Probationers will, under the direction and supervision of the Director of Indian Forest Studies appointed by the Secretary of State for India in Council, receive practical instruction in such British and Continental forests as may be selected for the purpose.

The Secretary of State for India in Council will make payments to each Probationer at the rate of £120 annually, not exceeding a total of

Probationers who obtain a Degree or Diploma in Forestry, and also satisfy such other tests of proficiency as may be prescribed, will be appointDepartment, provided they are of sound con stitution and free from physical defects which would render them unsuitable for employment in the Indian Forest Service.

The sanctioned scale of the service at present

18 :-	Rs.
1	Inspector-General of Forests 2,650 a month
1	Assistant Inspector-General
_	of Forests
	Chief Conservators (Burma and Central Provinces) . 2,150
22	Conservators, in three 1,000 grades (including President, Forest Research 1,500 listing and College)
	dent Forest Research \$1,700 (22
	Institute and College) 1,500
107	Demarks

Conservators An Assistant Conservator of Forests will draw pay at the rate of Rs. 380 a month from the date of his reporting his arrival in India rising by annual increments of Re. 40 a month to Rs. 700 a month, thereafter by annual in-crements of Rs. 50 a month to Rs. 1,250 a month in the 20th year of service. After a service of not less than 20 years, a

retiring pension is granted not exceeding the following amounts:-

Scale of Po			
Years of Completed Service.	Sixtleths of Average Emolu- ments.	Maximum Limit of Pension.	
20 to 24 25 and above	30	Rs. 4,000 a year. Rs. 5,000 a year.	

Indian Geological Survey.

The Geological Survey Department is at present constituted as follows:-Monthly Salary.

1	Director			Rs. 2,000		Rs.	Re
.3	Superintendents		••	1,000	rising by	80 to	1,400
12	Assistant Superintendents — For the first five years			350	,,	30 "	500
1	Thereafter	••	••	500 500	"	50 ,, 50 ,,	1,000 1,000

Appointments to the Department are made by the Secretary of State for India. They will usually be made about July of each year, and the probable number of appointments will, if a possible, be announced about two years in adpossible, be announced about two years in advance. The age of candidates should not not not seed 25. Besides a good general education, be required by the Government of India. Fix a sound education in geology is essential: a appointments are probationary for two years.

50 ,, 1,000 50 ,, University degree and a knowledge of French or German will be regarded as important qualior verman wat he regarded as important qualifications; and certificates of a high moral character will be required. Candida as must also have had one or two years practical training in mines, or in technical laboratories, as may be required by the Government of India. First

India Office.

Secretary of State for India are filled from among the successful candidates at the General Examinations (Class I, and Second Division), which are held from time to time by the Civil

Vacancies in the clerical establishment of the rectary of State for India are filled from long the successful candidates at the General Competitive Examination for the Civil Service. The Examination for Class I. Clerkships is the same as the open Competitive Examination for the Civil Service of India. Further particulars may be obtained to the Competitive Examination for Class I. Service. The Examination for Class I. Class I. Service. The Examination for Class I. Class I. Service. The Examination for Class I. Class I. Service. The Examination for Class I. Class I. Class I. Service. The Examination for Class I. Class I. Service. The Examination for Class I. Class I. Service. The Examination for Class I. Class I. Class I. Service. The Examination for Class I. Class I. Service. The Examination for Class I. Class I. Service. The Examination for Class I. Class I. Service of India. Further particular may be obtained to the Class I. Service of India. Service which are held from time to time by the Civil upon application to the Secretary, Civil Service Service Commissioners for appointments in the Commission, Burlington Gardens, London, W.

Indian Public Works Department.

The Secretary of State for India in Council makes appointments of Assistant Engineers in the Public Works Department of the Government of India.

Candidates must have attained the age of 21, and not attained the age of 24 years.

Candidates must produce evidence that they have (1) obtained one of the University degrees mentioned in Appendix I., or (2) passed the A.M.I.C.E. examination, or (3) obtained such diploma or other distinction in Engineering as may, in the opinion of the Selection Committee, be accepted as approximately equivalent to the degrees mentioned.

The Engineer Establishment of the Indian Public Works Department consists of a staff of engineers, military and civil, engaged on the construction and maintenance of the various public works undertaken by the State in India.

- 2. The permanent establishment of the Department is recruited from the following sources :--
 - (1) Officers of Royal Engineers.
 - 2) Persons appointed to the Imperial Service by the Secretary of State by selection from the United Kingdom.
 - (3) Persons educated at the Government Civil Engineering Colleges in India, and appointed to the Provincial Services by the Government of India.
 - (4) Occasional admission of other qualified persons.

The various ranks of the department are as follows :--

						Sa	lary per
							annum
						G	mperial
						Ì	Service).
							Rs.
Chief E	Ingineer,	First C	lass				33,000
		O 3	on.	SS .			30,000
Surerir	itending 1	Enginee	т. Е	irst	Class	•	24,000
,,	,		Sec	ond	Class		21,000
"		,		rd C		•••	18,000
Execut	ive Eng	ineer,	20t		/ear	of	10,000
	ce and fo	llowing	1700		car		15,000
Execut	ive Engin	eer 10	th s	TOOF	of	••	10,000
		001, 10	J		ervice		14,400
		18	H.				
,,	**	17	111	,,	**	• •	13,800
"	**	16		"	,,	• •	13,200
"	**			77	,,	• •	12,600
"	,,	15	in.	,,	,,	• •	12,000
"	,,	14	ili.	**	"	• •	11,400
"	,,	13		,,	,,	• •	10,800
"	"	121	n	,,	. ,,		10,200
A: -27		110	ih.	,,	,,		9,600
Assista.	nt Engine			,,	,,		9,000
,,	**		th	,,	,,		8,400
**	,,		h	,,	,,		7,920
**	12		h	,,	•••		7,440
**	,,		th	,,	,,		6,960
"	**	51	h	,,	**		6,480
,,	77		th	,,	,,		6,000
,,	,,	31	rđ	,,	"		5,520
,,	,,	21	nd	,,	"		5,040
,,	,,	18	t	"	"	::	4,560
	_						
ervice	only and	in acc	ord	ance	wifl	1 th	a rules

The increments will be given for approved service only and in accordance with the rules of the Department.

Exchange compensation allowance will not be granted to future entrants. Promotions above the grade of Executive Engineer are dependent on the occurrence of vacancies in the sauctioned establishment, and are made wholly by selection; mere seniority is considered to confer no claim to promotion.

State Railways.

The Secretary of State for India in Council will, from time to time as may be required, make appointments of Assistant Traffic Superintendent on Indian State Railways.

Candidates must possess one or other of the following qualifications, viz. :-

- (a) Not less than two years' practical ex-perience of work in the Traffic Depart-ment of a British or Colonial Railway together with evidence of a sound general education.
- (b) A degree or diploma of any teaching University in the United Kingdom granted after not less than three years' study in that University, or a technical

diploma or certificate recognized by the Secretary of State.

The establishment of the Superior Traffic Department of Indian State Railways consists of a staff of officers, military and civil, engaged on the various railways administered by the State in India. This establishment is recruited from the following sources:-

- (i) Officers of Royal Engineers;
- (ii) Persons appointed by the Secretary of State by selection from the United Kingdom;
- (iii) Persons appointed in India;
- (iv) Occasional admission of other qualified

The various ranks of the Department are as follows:-

					lary per nnum. Rs.
Traffic	Managers				24,000
Deputy	Traffic Manag	ers			18,000
Distric	t Superintenden	ıts:-	_		-
Class	II., Grade 1				13,200
,,	Grade 2				12,000
,,	Grade 3				10,800
,,	Grade 4				9,600
,,	Grade 5				8,400
Assista	nt Superintende	ents	:		
Class	III., Grade 1				6,600
,,	Grade 2				5,400
,,	Grade 3				4,800
17	Grade 4	٨.			3,600
"	Grade 5	٠.		2,40	0-3,000
The	establishments	of	the Su	nerior.	foco-

The establishments of the Superior Locomotive and Carriage and Wagons Departments of Indian State Railways consist of officers engaged on the various railways administered by the State in India. These establishments are recruited from the following sources:—

- (i) Persons appointed by the Secretary of State by selection from the United Kingdom;
- (ii) Persons appointed in India;
- (iii) Occasional admission of other qualified persons.

The various ranks of the Departments are as follows:—

						ary per innum Rs.
Lo	comotive Supe	erinter	ndents	••	••	24,000
	puty Locomot					18,000
Car	rriage and Wa	agon	Superi			21.000
De	puty Carriage	and	Wagon			,
t	endents		••	••	• •	15,000
	District Supe			:		
vi.	Class II.,					13,200
Both Departments.	,,	Grad		••		12,000
ä	,,	Grad		• •	•	10,800
۔	,,	Grad		• •	• •	9,600
80		Grad		• •	• •	8,400
₽1	Assistant Su			g :		
A,	Class III.,			• •	• •	6,600
ੜ '	"	Grad		• •	• •	5,400
ğί	"	Grad		• •	• •	4,800
щ.	"	Grad		• •	6'40	3,600
	٠,,	Grade	6 0	• •	2,40	0-3,000

Telegraph Department.

The Superior Establishment of the Indian Telegraph Department is engaged on the construction and maintenance of the various telegraph lines belonging to the Government of India, and in the supervision of the offices in connection therewith.

The Department is chiefly recruited from the United Kingdom. The various ranks of the Superior Establishment are as follows:—

1	_							
1								Maximum
1								Salary
ł								per
l								mensem.
								Rs.
l								ns.
		-General					٠.	. 3,000
Dep	uty :	Director	-Gene	ral			٠.	2,000
	ctor							1,800
		Director					٠.	1,600
		perinten					٠.	1,400
Chie	f Su	perinten	dents,	2nd	clas	5		1.250
Supe	erint	endents.	1st G	rade			٠.	1.000
	,,		2nd (Frad	е			850
Assis	stant	t Superin	itende	nts.	1st (Grade	٠.	700
i	,,	-	**	•	2nd	Grad	e.	550
1	,,		,,		3rd	Grade	٠.	450
	,,		"			Grade		
	"		"	_			•	900

His Majesty's Indian Army.

A certain number of appointments to the Indian Army are offered to Cadets of the Royal Military College, and a certain number to candidates from the Universities. All King's Cadets (British and Indian) and Honorary King's Cadets nominated by the Secretary of State for India in Council have the option, during their last term at the Royal Military College, of electing for appointment to the Unattached List for the Indian Army, or for appointment to commissions in British Cavalty or Infantry. The appointments to the Unattached List for the Indian Army remaining after the claims of the King's Cadets and Honorary King's Cadets (Indian) have been satisfied are allotted in order of merit to Cadets who satisfy the requirements of the Regulations respecting admission to the Royal Military College, and who elect to compete for such appointments, at each final Examination at Sandhurst.

King's India Cadetships.

Ten King's India Cadets are nominated each half-year from among the sons of persons who have served in India in the Military or Civil Service of His Majesty or of the East India Company. A Candidate is not eligible for nomination as a King's India Cadet if he be under 17 or over 19½.

A Candidate is not eligible for nomination and his claims will in no circumstances be considered until he has obtained (a) a Leaving Certificate or a Qualifying Certificate, as required by the Regulations for Admission to the Royal Military College, Sandhurst, in force prior to 1912; or (b) has qualified at the Army Entrance Examination; or (c) is prepared to attend the next examination. The fees of King's India Cadets at the Royal Military College are not payable by the State, except in cases where, after due inquiry, their pecuniary circumstances are ascertained to be such as to justify the payment.

Honorary King's India Cadetships.

Three Honorary King's India Cadets are nominated annually by the Secretary of State for India. Such Cadets are appointed from—

(a) The sons of officers of the Indian Army, who were killed in action, or who have died of wounds received in action within six months of such wounds having been received, or from illness brought on by fatigue, privation, or exposure, incident to active operations in the field before an enemy, within six months after their having been first certified to be ill.

(b) The sons of officers of the Indian Army, who have obtained the brevet substantive rank of Major or Lieutenant-Colonel, and have performed long or distinguished service.

An Honorary King's Cadetship carries with it no pecuniary advantage.

Queen Alexandra's Military Nursing Service for India.

The Nursing establishment is for duty with British officers and soldiers, and at present consists of :-

- 4 Lady Superintendents.
- 16 Senior Nursing Sisters.
- 71 Nursing Sisters.

The numbers in these grades are subject to alteration.

Nursing Sisters at the time of appointment must be over 27 and under 32 years of age Candidates for the Service must have had at least three years' preliminary training and service combined in the wards of a British general hospital or hospitals of not less than 100 beds in which adult male patients receive medical and surgical treatment, and in which a staff of Nursing Sisters is maintained.

The duration of a term of service, for all grades of lady nurses, is five years. A lady nurse who has been pronounced by a medical Board to be physically fit for further service in India, may be permitted to re-engage for a second and third term at the option of the Government, and again for a fourth term, or until the age of compulsory retirement, if in all respects efficient and if specially recommended by the Commander-in-Chief in India. But a lady nurse will not under any circumstances be permitted to remain in the service in the grade of Lady Superintendent beyond the age of 55 years, or in either of the other grades beyond the age of 50 years.

Rates of Pay.

(In addition to free quarters, fuel, light, and punkah-nullers

and punkan-puners.)						
Tade 9	Rs. per mensem.					
Lady Superintendent Senior Nursing Sister over						
TAG AGTES ID BLUGG	005					
Senior Nursing Sister and	,,					
	200 ,,					
Vears in grade	200					
Nursing Sister under and						
years in grade	175					

Royal Indian Marine.

All first appointments of executive officers in the Royal Indian Marine are made by the Secretary of State for India.

The limits of age for appointment to the junior executive rank, that of Sub-Lieutenant, are 17 and 22 years, and no candidate will be appointed who does not possess the full ordinary Board of Trade certificate of a Second Mate; certificates for foreign-going steamships will not be accepted

PAY AND ALLOWANCES.

The present establishment of officers of the Royal Indian Marine and their allowances are as follows:-

> 32 Commanders on pay ranging from Rs 350 to Rs. 500, in addition to staff or command pay.

> > per mensem.

1	Lieutenants on completing eight	_	_	000
	years' seniority .	ОÞ	BS.	300.
	Lieutenants on			
	completing six		_	
	years' seniority .	Оn	Rs.	250.
	Lieutenants on			
72	completing			
	three years'			
	seniority	On	Rs.	200.
	Lieutenants under			
i	three years'			
i	seniority	On	Rs.	150.
	Sub-Lieutenants	On	Rs.	125.
	Sub-Tieutenants	Õn	Rs.	100.

Total .. 104.

In addition, 8 Commanders and 8 Lieutenants are at present employed in the Marine Survey of India.

A certain number of Shore, Port, and Marine Survey appointments are usually reserved for officers of the Royal Indian Marine. The numbers so reserved and the allowances attached (in addition to pay of grade), are as follows:—

> Allowances per mensem.

> > 4---20

		Rs.
4 Shore appointments	••	400-1000
16 Port appointments		320 870
		per diem.

11 Marine Survey appointments

The sanctioned establishment of the Engineers branch of the Marine numbers 81, of whom, at present, 9 are Chief Engineers, and the remainder Engineers and Assistant Engineers.

The following table shows the approximate equivalent in sterling of the rupee Salaries stated, (a) when Exchange Compensation vance is not granted. (b) when it is granted at the rate just mentioned:—

Rupees per Mensem.	Rupees per Annum.	Equivalent without E. C. A.	Equivalent with E. C. A.	Rupees per Mensem	Rupees per Annum.	(a) Equivalent without E. C. A.	(b) Equivalent with E. C. A.	Rupees per Mensem.	Rupees per Annum.	Equivalent without E. C. A.	Equivalent with E. C. A.	Rupees per Mensem.	Rupees per Annum.	Equivalent without E. C. A.	Equivalent with E. C. A.
100	1,200	80	85	650	7 000	£	£			£	£]]	£	£
125	1.500	100	106	700	7,800	520	552	1,600	19,200	1,280	1,360	2,900	34,800	2,320	2,431
150	1,800	120	127	750	8,400	560	695	1,700	20,400	1,360	1,445	3,000	36,000	2,400	2,511
175	2,100	140	149	800	9,000	600	637	1,800	21,600	1,440	1,530	3,100	37,200	2,480	2,511
200	2,400	160	170		9,600	640	680	1,900	22,800	1,520	1,615	3,200	38,400	2,560	2,671
250	3,000	200	212	850 900	10,200	680	722	2,000	24,000	1,600	1,700	3,300	39,600	2,640	2,751
300	3,600	240	255	950	10,800	720	765	2,100	25,200	1,680	1,785	3,400	40,800	2,720	•
350	4,200	280	297	1,000	11,400	760	807	2,200	26,400	1,760	1,870	3,500	42,000	2,800	2,831
400	4,800	320	340	1,100	12,000	840	850	2,300	27,600	1,840	1,951	3,600	43,200	2,880	2,911 2,991
450	5,400	360	382	1,200	13,200	880	935	2,400	28,800	1,920	2,031	3,700	44,400	2,960	3,071
600	6,000	400	425	1,300	14,400	960	1,020	2,500	30,000	2,000	2,111	3,800	45,600	3,040	3,071 3.1 51
550	6,600	440	467	1,400	15,600	1,040	1,105	2,600	31,200	2,080	2,191	3,900	46,800	3,120	•
600	7.200	ſ	510	1,500	16,800	1,120	1,190	2,700	32,400	2,160	2,271	4,000	48,000	3,200	3,231
-		4	1 0.0	1,300	18,000	1,200	1,275	2,800	33,600	2,240	2,351	5,000	60,000	4,000	3,311 4,111

The Indian Civil Service.

the East India Company was still little more than a body of traders. The genesis of the Indian Civil Service is to be sought in the modifications which the Company underwent as it found itself year by year more involved in the government of the country with which it was trading. It was gradually realised that neither the pay nor the training of the Writers. Factors and Merchants of the Company was adequate to the administrative work which they were called on to perform. As a result this work was often indifferently done, and corruption was rife. To Lord Comwallis is due the credit of having reorganized the administrative branch of the Company's service, in accordance with three main principles from which there has been hitherto no deviation. These were that every civil servant should covenant neither to engage in trade nor to receive presents, that the Company on their side should provide salaries and that, in order that the best men might be attracted the principal administrative posts under the Council should be reserved for members of the Covenanted Civil Service or the Civil Service or the C called. The first of these principles is embodied not only in the covenant which every member of the service still has to sign on appointment, but also in the "Government Servants' Conduct Rules," which are applicable vants: Conduct Rules," which are applicable to every civil department, however recruited. As regards the second, the scale of salaries originally prescribed was so handsome that it has not yet been considered expedient to undertake any general revision of it. The list of reserved posts remains, too much the same as in 1793, though certain modifications have been introduced to meet Indian aspirations.

At first nominations to the service were made by the Directors, but this right was withdrawn by Act of Parliament in 1853, and since 1855 appointments have been open to public competition, all natural-born subjects of the Crown being eligible. The age-limits and other conditions of examination have varied considerably from time to time, but at present candidates are examined between the ages of 22 and 24. At first young officers were sent straight to their appointments on recruitment, but in 1800 Lord Wellesley established a college at Fort William for their preliminary training. This was not a success and in 1805 a college at Haileybury was substituted, and for 3 years nominees underwent a two years' raining there before proceeding to India. At present a year's course at a British University is prescribed, and at the close of this year there is a further examination. Failure to pass this means final loss of appointment, and seniority and revenue officer of his district. He also

In the early years of the eighteenth century in the service is determined by combining the result of the open competition and this final compulsory examination.

> The Statute of 1793 (33 Geo. cap. 52) modified in 1861, sets forth the list of offices reserved for members of the Indian Civil Service. It includes among others the offices of secretaries and under-secretaries to governments, com-missioners of revenue, Civil and Sessions Judges, Magistrates and Collectors* of Districts (in the regulation provinces) and joint and assistant Magistrates and Collectors. In the nonregulation provinces, many of the above posts regulation provinces, many of the above possible size held by military officers. In addition to these reserved posts there are many other appointments which the Indian Civilian can hold. He is now, however, debarred from permanent appointment as Governor-General or Governor, the highest office he can attain being those of Lieutenant-Governor and Member of the Vicerovi's Council ber of the Viceroy's Council.

comparatively few have succeeded in obtaining appointments by open competition. On the 1st of April 1913 only 46 of the 1,319 civilians on the cadre were natives of India. In 1870 an important Act (33 Vict. cap. 23) was added to the statute-book which allowed the appointment of "natives of India of proved merit and ability" to any of the offices reserved by law to members of the Covenanted Civil Service, such officers were known as Statutory or Uncovenanted Civilians. This method of appointment was dropped in 1889, and facilities were afforded to Indians for promo-tion through the ranks of the Provincial Ser-

The young civilian, on joining his appointment in India, is attached to a district as assistant to the Collector. He is given limited magisterial powers, and after passing examinations in the vernacular and in departmental matters he attains to full magisterial powers and holds charge of a revenue subdivision. During this period he is liable to be selected for the judicial branch and become an Assistant Judge. In course of time promotion occurs ant Judge. In course of time promotion occurs and he becomes either Collector and District Magistrate, or District and Sessions Judge: this promotion does not generally occur before he has served for at least ten years. The District Judge is the principal civil tribunal of the district and wields extensive appellate powers. In his capacity as Sessions Judge he tries the more important criminal cases of the district of the district.

[•] The Chief Rovenue Officer of a District is known as the Collector in the "regulation provinces" of Bengal, Madras, Bombay. Agra and Behar and Orissa. Elsewhere he is the Deputy Commissioner, and his assistants are Assistant Commissioners.

forms a court of appeal from subordinate magistrates, supervises municipalities and local boards, is chief excise officer and district registrar, and in general represents Government in the eyes of the people. The Collector and his assistants are expected to travel over their charges: touring rules vary in different pro-vinces, but in Bombay the Collector spends four and his assistants seven months in the year on tour.

By the time the highest grades in the offices of Collector or Judge are reached the Civilian has, as a rule, nearly completed the 25 years which are necessary before he can retire. Should he elect to continue in service, there are still posts to which he can look forward for promotion. On the one hand, he may become a Commissioner or even a Member of Council, and on the other, there are Judicial Commissionerships and seats on High Court Benches. Such is the normal career of a Civilian, but this, by no means, completes the account of his prospects, for nearly one-fourth of the service is, as a rule, employed in posts—some reserved and some not—out of the regular line. A number of Civilians are employed in the Imperial and Provincial Secretariats, some are in political employ in the Native States, others hold responsible posi-tions in the Customs, Police, Salt, Post Office and other departments, or supervise big municipalities and public trusts.

The Civilian may retire after 25 years' service and in the ordinary way must retire on reaching the age of 55. He contributes throughout his service to a pension which is fixed, regardless of whether he has risen to be a Lieutenant-Governor, or has remained at the foot of the ladder. Every Civilian, moreover, married or single, subscribes to an annuity

reington is Freedrich Special atternation is being paid to the question of the feasi-tion is being paid to the question of the feasi-the Indian Civil and the Provincial Services. Dility of increasing facilities for the admission! They assembled first at Delhi on November bility of increasing facilities for the admission of natives of India to the service and the report of the Commission is awaited with considerable interest.

Public Services Commission.

In July, 1912, it was announced that the King had been pleased to approve the appoint went to Madras, and completed the tour ment of a Royal Commission to examine and at Bombay, where witnesses from Western report upon the Public Services in India. The India and the Central Provinces were heard, Royal Commission was constituted as follows:-

K.C.M.G.

The Earl of Ronaldshay, M.P.

Sir Murray Hammick, K.C.S.I., C.I.E., Indian Civil Service.

Sir Theodore Morison, R.C.I.E., Member of the Council of India. Sir Valentine Chirol.

Frank George Sly, Esq., c.s.t., Indian Civil Service.

Mahadev Bhaskar Chaubal, Esq., c.s.i., Member of the Governor of Bombay's Executive Council.

Gopal Krishna Gokhale, Esq., c.i.e., Member of the Viceroy's Legislative Council.

Walter Culley Madge, Esq., C.I.E., Member of the Viceroy's Legislative Council.

Abdur Rahim, Esq., Judge of the Madras High Court.

James Ramsay Mac Donald, Esq., M.P. Herbert Albert Laurens Fisher, Esq., Fellow and Tutor of New College, Oxford.

The Terms of Reference were as follows :---To examine and report upon the following matters in connexion with the Indian Civil Service, and other civil services, Imperial and Provincial:-

- (1) The methods of recruitment and the systems of training and probation;
- (2) The conditions of service, salary, leave.
- and pension.

 (3) Such limitations as still exist in the employment of non-Europeans and the working of the existing system of division of services into Imperial and Provincial:

and generally to consider the requirements of the Public Service, and to recommend such

fund which provides for the widows and orphans of deceased members of the service.

The conditions of recruitment, training, pay, leave, pension and other matters affecting the Indian Civil Service are at present under enquiry by the Royal Commission, of which Lord Islington is President. Special attention is being paid to the question of the feast. 3rd, and examined Imperial officers and witnesses from the United Provinces, the Pun-jab and the North-West Frontier Province. They then assembled at Calcutta in the middle of December, to hear witnesses from Bengal, Bihar and Orissa, and Burma.

Early in February the Royal Commission

The Commission returned to England in the Chairman.-The Right Hon. Lord Islington, spring of 1914, and has drawn up a report which, it is understood, has been signed, but jubilcation of it may be delayed on account of the war.

THE INDIAN MEDICAL SERVICE.

the Government of India consists of some seven hundred and sixty-eight medical men in the course of rather more than a century recruited in England by competitive examination; and has as its primary duty the care

The Medical Service under the control of of the native troops and of the British Officers

tion the provision of medical aid to Civil Ser .. 1 vants and their families, the administration of the civil hospitals of the large towns, and the supervision of the numerous small dispensaries: provided either by the Government or private charity for the inhabitants of the larger villages. Moreover the Service provides for the sanitary control of large areas, dealing with the sanitation of towns, protection of water supplies and the prevention of epidemic disease. It is also represented in the Native States by the Residency Surgeon, and in Persia by the Medical Officers to the British Consulates. The Jail Department is also administered in great part by Indian Medical Officers, generally in the dual capacity of Medical Officer and Superintendent; and up to quite recently the Officers in the Mints have been recruited from members of the the supervision of the numerous small dispenup to dutte recently the Omeers in the annus have been recruited from members of the medical profession. Lastly the Service provides the men who are engaged in original research on diseases of tropical importance at the Bacteriological Laboratories which have arisen in India during the last fifteen years, and others who as Professors at the large medical schools have had the task of creating an indigenous medical profession which will make permanent throughout the Indian Empire the civilising influence of Western Medicine.

This remarkable combination of duties and This remarkable combination of duties and responsibilities in a single Service has slowly evolved from the system, initiated in quite early days by the old East India Company, of providing "Chirurgeons" from England, on the nomination of the Board of Directors in London, for the care of the people and soldiers in the Indian "Factories", and on the ships trading with the East. Besides these men the Company maintained saveral medical men the Company maintained several medical services, including those of St. Helena, the West Coast of Sumatra, Prince of Wales Island, and the China Coast. The Surgeons on the Company's Indiamen were frequently utilised for emergent work in India as in the case of the Mahratta War of 1780 and other military operations of that time, for duty with troops, and sometimes to fill vacancies occurring among those who would now be styled "civil surgeons."

Organisation.—The Indian Medical Service practically dates from the year 1764 when the scattered medical officers serving in India were united into one body: later this was divided into the three medical "Establishments" of Bengal, Madras, and Bombay. In 1766 the Medical Service was divided into two branches military and evil the letter bay. In 1766 the Medical Service was divided into two branches, military and civil, the latter being regarded as primarily army medical officers, lent temporarily for civil duties, in which they formed a reserve for the Indian Army, and were consequently liable to recall at any time. This position was confirmed by the Council of Lord Cornwallis in 1788; and has been in existence ever since with great advantage to the military authorities in times advantage to the military authorities in times of military stress. In 1898 the officers of the Service were given military rank, and since 1906 all the names have been borne on one list, though men on entering the service are allowed to elect a Presidency in which they will serve on entering the Civil Department.

examination being held in January 1855, when the list was headed by a Bengalee student who subsequently attained distinction. It was calculated by Lt.-Col. Crawford, I. M. S., (the talented historian of the Service) that from January 1855 to the end of 1916, eightynine men of pure Indian extraction had entered the Service. The proportion now shows signs of yearly increase. The total number of Indians at present in the Service is a little more than five ner cent, of the whole: is a little more than five per cent. of the whole: while, of the successful candidates during the past five years, 17.6 per cent. have been men born and bred in the country.

Method of Entry.-Entrance into the Service is now determined on the results of competitive examinations held twice a year in London, the Regulations regarding which, in London, the Regulations regarding which, and the rates of pay, rules for promotion and pension relating thereto, may be obtained on application to the Military Secretary at the India Office, Candidates must be natural-born subjects of His Majesty, of European or East Indian descent, of sound European or East Indian descent, or sound bodily health, and, in the opinion of the Secretary of State for India in Council, in all respects suitable to hold commissions in the Indian Medical Service. They must possess, under the Medical Acts in force at the time of their conscituents a qualifaction rediof their appointment, a qualification registrable in Great Britain and Ireland. No candidate will be permitted to compete more than three times. Candidates for the January examination in each year must be between 21 and 28 years of age on the 1st February in that year, and candidates for the July examination must be between 21 and 28 years of age on the 1st August.

The candidate will be examined by the Examining Board in the following subjects, and the highest number of marks obtainable. will be distributed as follows:-

- (1) Medicine, including Therapeutics .. 1,200 Marks. .. (2) Surgery, including diseases
- of the eye ٠. 1,200 (3) Applied Anatomy and Physiology 600
- (4) Pathology and Bacterio-900 logy . .
- (5) Midwifery and Diseases of Women and Children ... 600
- (6) Materia Medica, Pharma-cology and Toxicology.. 600

N.B.—The Examination in Medicine and Surgery will be in part practical, and will include operations on the dead body, the application of surgical apparatus, and the examination of medical and surgical patients at the hedside bedside.

Having gained a place at the entrance examination, the successful candidates will be commissioned as Lieutenats on probation, and will be granted about a month's leave. They will then be required to attend two successive courses of two months each at the Royal Army

will serve on entering the Civil Department. The Service was thrown open to Indians by the India Act of 1853, the first competitive Service will be placed on one list, their position

on it being determined by the combined results of the preliminary and final examinations. They will be liable for military employment in any part of India, but with a view to future transfers to civil employment, they will stand poeted to one of the following civil areas:—(1) Madras and Burma; (2) Bombay, with Aden; (3) Upper Provinces, i.e., United Provinces, Punjab and Central Provinces; (4) Lower Provinces, i.e., Bengal, Bihar and Orissa and Assam.

The allocation of officers to these areas of employment will be determined upon a consideration of all the circumstances, including as

deration of all the circumstances, including as far as possible the candidate's own wishes.

The whole course lasts for four months, after which the duly gazetted Licutenants proceed to India, and for the first years of their service are attached to native regiments in any part of the country. The doctor is an officer of the regiment, as was the case in the old days of the Army Medical Department. Of late years it has been proposed to form the members of the Service into a corps form the members of the Service into a corps on the lines of the British Medical Service, by forming station hospitals for native troops, thereby releasing the doctor from regimental life. This reform appears to have fallen through for the present, but is likely to be brought into operation within a very few years. Several appointments in the Civil Department are now reserved for Indians recruited in the country.

Organisation.—The Head of the Service is the Director General, who is an official of the Government of India and its adviser on medical matters. He is also concerned with questions of promotion of officers to administrative rank, and of the selection of men for admission to the civil department. Attached to his office and under his general supervision is the Sanitary Commissioner with the Government of India, who is to have the control of the new Sanitary Service, a department which is undergoing enlargement and re-arrangement. In each Presidency or Province there is a local head of the civil medical service and medical adviser of the local administration, who is either a Surgeon General, or an Inspector of Civil Hospitals of the rank of Colonel. The medical service in each province consists of the Sanitary Branch and the purely professional. The former is composed of Sanitary Commissioners of Districts, who by keeping large tracts of country under observation are in a position to country under observation are in a position to advise their respective governments of the existence of epidemics, and on the proper methods of dealing with them and of prevent-ing their spread. It is, however, through the Civil Surgeon that the visitor to India will come in contact with the Service. This official is something more than a general practitioner, as he is expected to be the leading medical and surgical authority in a large district consisting cf a million or more of souls. Owing to the varied experience obtained in India by the members of the Civil Medical Department, this official is generally a man of the highest professional attainments, especially so in the case of those senior men holding appointments case of those senior men holding appointments and in response to the development of the in the larger towns. His duties are to give work to be performed."

medical aid to the civil servants and their families, and to administer the hospital which has been provided by Government in each headquarter town. In many cases too he will have the additional charge of the local jail, and be the Sanitary adviser of the Municipality. Accustomed to meet the most serious emergencies of his profession, and to rely en-tirely on his own skill and judgment, the Civil Surgeon in India has given to the Indian Medical Service a reputation for professional efficiency which cannot be excelled by any emciency which cannot be excelled by any other public medical service. Travellers in India falling sick within call of any of the larger towns can therefore rely on obtaining the highest professional skill in the shape of the ordinary Civil Surgeon of the I. M. S. There was lettly hope sings that the propulation have lately been signs that the popularity of the medical service of India is waning in the medical schools of the United Kingdom, and consequently there is a suspicion that a class of man is now entering it of a somewhat lower type than that which has made the Service famous.

A Parliamentary Paper containing correspondence between the Government of India and the Secretary of State, on the promotion and the Secretary of State, on the promotion of an independent medical profession in India and the possibility of limiting or redu-cing the carde of the Indian Medical Service, was published during 1914. Writing in 1910. the Government of India said that it was impracticable to make any reduction in the number of Indian Medical Service officers employed solely on civil dittles, that is to say, those not belonging to the war reserve. An independent profession trained on western lines was growing up in India but had to overcome its universal rival in the shape, of hakims and others trained in indigenous methods: Government could do much to encourage the growth of this profession by making provision for the registration of medical practitioners qualified according to western methods. The Secretary of State, replying in November 1912, said that he was unable to contemplate any substantial reduction in the Indian Medical Service. As for the independent profession, he trusted that the experience of the working of the Bombay Registration Act might justify the introduction of similar legislation for other Provinces. He considered that the Indian Medical Service should be restricted to the military needs of the country both on account of economy and in order to increase as far as possible the number of important posts held by Indians; he was prepared to consider each new appointment on its merits, but any proposal for an increase in the civil posts included in the cadrof the Indian Medical Service would be subjected to the closest scritiny. In reply to that despatch, the Government of India wrote in March, 1914:—"In view of the growing medical needs of the country which necessitate the employment of a larger staff of medical officers, some expansion of the Indian Medical Service is inevitable, and such expansion should not, in our opinion, be regarded from a different standpoint from the enlargement of any other

Pay and Allowance.—The following are the monthly rates of Indian pay drawn by officers of the Indian Medical Service when employed on the military side.

Rank.	Unemployed Pay.	Grade Pay.	Staff Pay.	In Officiating Medical Chargo of a Regiment.	In Permanent Medical Charge of a Regiment.
	Rs.	Rs.	Rs.	Rs.	Rs.
Lieutenant	420	350	150	425	500
Captain	475 475	400 450	150 150	475 525	550 600
,, after 7 years' service , after 10 years' service	::	500 550	150 150	575 625	650 700
Major	::	650 750	150 150	725 825	800 900
Lieutenant-Colonel	::	900 900 1,000	350 400 400	1,075 1,100 1,200	1,250 1,300 1,400

Pensions and Half-Pay.—Officers are allowed to retire on pension on completing 17 years service, the amount they receive varying with the precise number of years they have served. The lowest rate for 17 years' service is £300 per annum, and the rate for 30 years £700 per annum. The increases in pension for each additional year's service over 17 are somewhat higher in the last 5 than in the first 8 of the 13 years between the shortest and longest periods of pensionable service. All officers of the rath of lieutenant-colonel and major are placed on the retired list on attaining the age of 55 years: the greatest age to which any officer can serve being 62.

	Approxi- mate	S	salary per Mer	isem.	
Principal Civil Appointments.	Number of Appoint- ments in each Class.	When held by a Licutenant Colonel.	When held by a Major.	When held by Captain.	When held by Lieute- nant.
Inspectors-General of Civil Hospitals Sanitary Commissioner with Government of India. Inspectors-General of Prisons Principals of Medical Colleges Professorial Appointments Sanitary Commissioners Iteputy Sanitary Commissioners Bacteriological Appointments Superintendents of Central Lunatic Asylums Superintendents of Central Gools Civil Surgeoncies (First Class) Civil Surgeoncies (Second Class) Probationary Chemical Examiner Officers deputed to Plague Duty	8 13 11 6 31 37 171	Rs. 2,250-2,500 2,000-2,500 1,550-2,000 1,650-1,800 1,500-1,650 1,250-1,600 1,450-1,600 1,400-1,550 1,300-1,450 1,300-1,450 1,200-1,350 1,200-1,350	1,200-1,300 1,050-1,150 1,050-1,150 1,050-1,150 1,050-1,150 850-1,150	700-900 600-750 600-750 .500-650 600-750	750 700 60 550 550 450 550 700

Pilot Services.

Appointments to the Bengal Pilot Service pointments must not be less than 18 and not are made by the Secretary of State for India by the Government of Bengal; the latter duce a Board of Trade or Colonial Certificate of appointments are limited to Anglo-Indians and Eurasians, and are made under separate

Competency as a Second Mate, or any higher grade, for a foreign-going sh'p, and evidence of having served at sea not less than two years and Editasians, and are made under separate grade, for a localization of an object and separate grade, for a localization of the two years made by the Secretary of State, preference is given, cateria parabus, to candidates who have passed through one of the training ships "Worfester" and "Convay."

Candidates for the Secretary of State's ap-lowance: on a square-rigged sailing vessel of over 800 tons. The rates of pay and allowances of Leadsmen Apprentices while on duty are as

When on the running list :--

Rs.

Junior Leadsmen ..107 a month ..135 a month Second Mate Leadsmen .. 160 a month First Mate Leadsmen

When employed as Chief and Second Officer:-Chief Officers of pilot vessels Rs. 160 a month

As Second Officers of pilot ves-.. Rs. 135 a month sels

Plus a mess allowance of Rs. 40 a month.

After five years' service a Leadsman Apprentice is allowed to appear at an examination to qualify him for appointment as Mate Pilot, but if he shows exceptional ability, and has passed each previous examination on his first passed each previous examination on the area attempt, hears a very good character, and is otherwise well reported on, this period may, with the special sanction of Government, be reduced to 4½ years. After three years' service as Mate Pilot, he is permitted to go up for an examination to qualify for appointment as Master Pilot, and, if successful, is promoted to that grade on the occurrence of a vacancy. to that grade on the occurrence or a vacancy Vacancies which occur in the grade of Branch Pilot are filled by promotion from the Master Pilots' grade, of men who have passed the Branch Pilots' examination. If the Local Government has reason to believe that a Pilot, the milest to Physical unflates of any blad. is, owing to physical unitness of any kind, incapable of discharging his duties properly, it arranges for his medical examination and takes such action as may seem desirable when the results of that examination are communicated. In particular, Pilots are medically examined after the occurrence of any accident to the vessel in their pilotage charge, if the circumstances tend to show that the accident was in any way attributable to physical unfitness on the part of the Pilot.

Pilots are not entitled to any salary while on pilotage duty, but receive as their remune-ration a share, at present 50 per cent., but liable to alteration at the discretion of the Government of Bengal, of the pilotage dues uovernment of Bengal, of the photage ades-paid by ships piloted by them. The Govern-ment of Bengal reserves to itself the right to require all Pilots to obtain a Home Trade Master Mariner's Certificate before they are promoted to be Senior Master Pilots. Every member of the Pilot Service is subject to such promoted to be Senior Master Pilots. Every member of the Pilot Service is subject to such rules as the Government of India or as the Government of Bengal under the control of Government of India, may from time to

Plus 50 per cent, of the lead money collected from the ships on which they do duty.

time respectively make in regard to discipline. leave, leave allowances, number of officers in the service, distribution into grades, tonnage of ships to be allotted to the several grades, etc., and in all respects he is amenable to such orders as may be passed by the Government of Bengal, and is liable to degradation, suspen-sion and dismissal by the Government of Bengal for any breach of such rules or orders, or for misconduct.

Other Pilot Services .- Bengal is the only province that has a covenanted pilot service:
elsewhere pilotage is under the control of the
local Port Trust. In Bombay, for example,
the Port Trust have drawn up the following rules for entry into the service :

To be eligible for admission to the Bombay To be eligible for admission to the Bombay Pilot Service, candidates must be British Subjects, and at least 21 years of age but not more than 32. They must hold certificates of competency as Master and excellent testi-monials as regards conduct, character and ability. They will be examined in the Port Office for form and colour vision as prescribed by the Board of Trade, and also an extra form vision test of each eye separately and must undergo an examination by, and produce a certificate from, the Medical Officer appointed by the Port Trustees that they are physically fit, and are of a sufficiently hardy or strong contitution to perform a Pilot's duty and that they, titution to perform a Pilot's duty and that they, to all appearance, enjoy good health. All probationer may, with the sanction of the Port Officer go before the Examining Committee, and if he passes he will be eligible for appointment as a 3rd Grade Pilot when a vacancy occurs. A Probationer, not passing the required examination to qualify for performing a Pilot's duties within six months after the date of his appointment, is liable to a struck off the list. Permotion to the value of the list. Permotion to the value of the list. Permotion to the value of the list. Permotion to the value of the list. Permotion to the value of the list. Permotion to the value of the list. Permotion to the value of the list. Permotion to the value of the list. Permotion to the value of the list. Permotion to the value of the list. be struck off the list. Promotion to the va-rious grades in the Pliot service is generally given by seniority, but the Port Trustees its serve to themselves the right of passing over

The Indian National Congress.

BY D. E. WACHA.

M. P., whose radicalism is so well known a distinguished career in the service. In his younger days when Collector and Magistrate at Etawah, he had rendered invaluable service in quelling the Mutiny in its incipient stage. For this service he was created a Civil Companion of the Bath, a rare honour in those days for a young Anglo-Indian Civil Servant. He retired from the service in 1883 after having honourably filled several high offices, the last of which was the Home Secretaryship of the Govern-ment of India. The policy of Lord Lytton's Government (1876-80) had aroused discontent in the country. The imposition of the Vernacular Press Act, commonly known as the Black Act, and the uncalled for hostilities with the Amir Shere Ali of Afghanistan which culminated in the Second Afghan War were the subject of much adverse criticism among the most moderate but enlightened Indians in all parts of the country. It was recognised in all quarters that the people should organise themselves by way of a conference to ventilate their grievances. Correspondence was passing among the Indian leaders of thought in the different provinces as to the formation of such a con-ference on a sound and permanent footing. The viceroyalty of Lord Ripon (1880-84) gave the necessary stimulus and encouragement. Thus by 1883, when Mr. Hume retired, the idea of the Conference had so far taken body and of the Conference man so is taken you, and form that, with the sympathetic support of Mr. Hume, a Union was established after he had in 1883 the genuine support of rany sterling friends of India in Parliament, especially John Bright and Mr. Stagg. Mr. Hume had been a silent but watchful observer of events and felt that he must give his active support to the movement, his heart being fully prepared to are invented in social, economical and political condition of the Indians. He was in close communication with the leaders in various communication with the leaders in various provinces. Here it may also be worth while recording the fact that during the preliminary stage of the inception of the Congress, Mr. Hume, who had retired to Simla, had had the opportunity of consulting Lord Dufferin on the subject and it is a fact that his Lordship was at one with the object and creatile traders. the subject and it is a lace clear his Lordship was at one with the object and greatly encour-aged Mr. Hume in his mission. Subsequently after 1388 his Lordship, for reasons of his own, which have never been authoritatively declared, chose to assume a hostile attitude toward the organisation but it was effectually met by the speech which Mr. George Yule made in December 1888 at the Congress of Allahabad.

First Session.

The Congress was practically founded in 1885 by the late Mr. Aliar Octavian Hume, a retired member of the Indian Civil Service, city of Poona and It was deemed unsafe to and the son of the distinguished Joseph Hume, invite delegates there. Accordingly the seat of the first assembly was hurriedly transferred to Bombay under the auspices of the Bombay and who was one of the chief advocates of to Bombay under the auspices of the Bombay Retrenchment and Retorm in the House of Commons in the forties or fiftees. Mr. Hume had honorary secretaries, Mesers. Pherozeshah rresulency Association, with its then active honorary secretaries, Messrs. Pherozeshah M. Mehta, Kashinath Trimbuk Telang and Dinsha Edulji Wacha. It was at the same time resolved to christen it "The Indian National Congress," having regard to the fact that its principal aim was faithfully to each the public on the late of the public secretary and the public secretary and the secretary secretary residence. opinion of all India. So many misleading statements were made during the earliest years of the Congress as to its aims and objects that it may be useful to relate what they are as laid down by Mr. Hume himself in a speech he made at Allahabad in 1888, on the eve of the session of the Fourth Congress at that centre. Firstly, he prefaced his enumeration of the objects by stating that "no movement in modern historical times has ever acquired, in so short a period, such an appreciable hold on the minds of India, none has ever promised such wide reaching and beneficent results." Further on, it was observed that "the Congress movement is only one outcome, though at the moment the most prominent and tangible, of the labours of a body of cultured men, mostly born natives of India, who some years ago banded themselves together to labour sliently for the good of India." As to the fundamental principles of the Congress they

Firstly, the fusion into one national whole of all the different and discordant elements that constitute the population of India;

Secondly, the gradual regeneration along all lines, mental, moral, social and political of the nation thus evolved; and,

Thirdly, the consolidation of union between England and India by securing the modifica-tion of such of the conditions as may be unjust or injurious to the latter country.

The Split.

It was on the fundamental principles above stated that the Congress carried out its appoint-ed work midst much misrepresentation, obloquy and even abuse, till 1907 when an extreme faction of delegates deliberately chose to raise a split in the united camp. At the Congress raise a split in the united camp. At the Congress held in Surat in that year the session had to be abandoned owing to the violent outbreak of the factional split of those who since have been known as "Extremists," in contrast with the overwhelming majority of those entertaining sober views who are called "Moderates;" but if the proceedings were for the time abandoned, it was not without the leading men impediately organising themselves on the spot to take ways and means for the holding of future congresses and for the purpose of Progress was so far made as to formulate the programms of a first meeting in Poons which at the time was the seat of great political activity. The Christmas week of 1885 was resolved upon for the inauguration of the Con- writing in a crystallised form. As such it may

be repeated here, as it should dispel all doubts, misgivings or misunderstandings of the true aims and objects of the Congress.

"The objects of the Indian National Corgress are the attainment by the people of India of a system of Government similar to that enjoyed by the self-governing members of the British Empire, and a participation by them in the rights and responsibilities of the Empire on equal terms with those members. These objects are to be achieved by consti-tutional means by bringing about a steady reform of the existing system of administration and by promoting national unity, fostering public spirit and developing and organising the intellectual, moral, economic and industrial resources of the country."

Every delegate to the National Congress is obliged by the Congress Committee of the province from which he is sent to express in writing his acceptances of the above creed and his willingness to abide by the Constitution and the rules framed under it.

The Constitution.

This Constitution has been in full working order since 1908. It is unalterable save by a Resolution of a majority in Congress assembled. It provides a guiding or directing staff of chosen leaders selected by each province and annually confirmed from the platform of the Congress by the President. Ex-Presidents, Secretaries and other office-bearers are nominated ex-officio members and the whole Committee is known by the name of the All India Congress Committee. The provinces are the same as the territorial divisions of the Government of India. The Committee of each Province is called the Provincial Congress Committee on whom devolves the duty, under the constitu-tion and the rules, of calling meetings for the election of delegates, suggesting subjects to be brought forward for the consideration of the Congress and all cognate matters. The Congress declares each year at the close of the session where the next Congress is to be held. The town or city where it is to be held begins to make all preparations fully six months before the date of the bolding of the session which has hitherto invariably been during the three days immediately succeeding Christmas Day. That period is specially selected owing to the great convenience it affords to all classes of delegates in the country to attend—a conbrought forward for the consideration of the of delegates in the country to attend-a convenience not offered at any other time during a year. A Reception Committee is formed with a leading person as its Chairman. That Committee divides its work among various sub-committees such as finance, correspordence, housing, feeding and so on. A band of active young persons volunteer to serve the different sub-committees. Formerly they were chiefly selected from among the student class but owing to the orders of

centres on railway platforms and taking them down to their appointed lodgings. Volunteers are also posted among delegates to carry their messag s or do such other work as may be needed. Thus they discharge honorarily a very important service with enthusiasm and alacrity and in a way learn discipline and the spirit of self-sacrifice. In his concluding address a President invariably makes honourable mention of the services of these Congress volunteers. The hardest work of a subcommittee consists of erecting the pendal or marquee for the holding of the Congress. Apart from the delegates who generally number from 500 as a minimum to 1,000 or so as a maximum there is always a large nun.btr of visitors. So that the pendal is erected to contain at least 5,000 seats. There have been some notable Congresses when the number seated has come to as many as 10,000. That was the number which congregated in Bombay in 1889 when Sir William Wedderburn presided and was accompanied from London by the late Mr. Charles Bradlaugh who afterwards introduced the first Reform Bill of the expanded introduced the first Reform 1911 of the expanded Legislative Councils in Parliament in 1890. Delegates had had to pay a fee of Rs. 20 for attendance up till 1912, but the fee has since been reduced to Rs. 15. They are charged a very moderate fee for the days they are louged, and hearded. Some walk-add delegated Some and boarded. Some well-to-do delegates hirebungalows at their own expense, but the majority of delegates outside those of the province. where a Congress is held, generally accept Congress accommodation which in smaller towns becomes a very serious and uphill task; indeed. The supply of chairs and other paraphernalia is also a heavy task, but they all undertake it cheerfully as a matter of duty.

A Session.

The spectacular effect of a large gathering in a capital town like Bombay or Calcutta or Madras is exceedingly pleasing, while the audience is invariably well-behaved. During the five hours a day of each of the three days proceedings, the stranger visiting the Congress, whether he is accommodated on the dais or the visitors' gallery, can hear every word of a good speaker. And generally, the pavilion is carefully erected so as to allow the voice of the speaker to reach every part of it. Care also is taken that there are as many ingresses and egresses as possible. A special gallery is generally reserved for purdah ladies who now-alays are keen to attend the congress and watch is a six are keen to attend the congress and watch its deliberations. Congress expenses at the very lowest estimate come to between Rs. 25,000 and Rs. 30,000 per annum. The funds are collected: (a) from donations of wealthy sympathisers of the Congress Movement in the province where the Congress is held; (b) from delegation fees, half of which is shared by the Leader congressions of the Congress is held; (c) the London organisation of the Congress known student class but owing to the orders of Government in the Education Department, that students should take no active part in politics, volunteers are now wholly recruited from the circle of men of business or profession. They are well disciplined and have to obey the reduce of their chief or "captain." They have the students of their chief or "captain." They have the state of their chief or "captain." They have the state of their chief or "captain." They have the state of their chief or "captain." They have the state of their chief or "captain." They have the state of their chief or "captain." They have the state of their chief or "captain." They have the state of their chief or "captain." They have the state of their captain. They have the state of the department of the control of the congress known and the Butleton of the Congress Known and the Butleton of the Congress Committee; and (c) from issue of visitors there is a deficiency. The Reception Committee, as soon as convenient, issues a full report of the three days in the state of the department of the congress there is a deficiency. The Reception Committee, as convenient, issues a full report of the three days proceedings of the Congress to the department.

connection with the Congress which is the parent of the Industrial Conference. They were all very successful the most notable being the one held in Bombay on the occasion of the Congress Meeting there in 1904.

The most important function of the Reception Committee under the Constitution is to elicit the opinion of the different Provincial Congress Committees as to the selection of a capable President, a well known Congressman who has taken an active part from year to year in the work of the Congress, not only on the Congress platform, but in his own part of the country by way of propagating the aims and objects of the Congress and educating the people. The Provincial Committees are enjoined to send the names of the person or persons whom they would select, say, by the end of September of each year, to the Reception Committee of the place where the Courgess is to be held. The name selected by the mais to be near. The name secreted by the ma-jority of that committee is accepted and is an ounced to all centres. The President-Elect receives official intimation of his selection and thereafter begins to prepare his "Address" reviewing the principal political events of the year and suggesting what important resolutions the Congress should pass. The President is always the honoured guest of the Reception Committee who provide a suitable lodging for him and cater for his confort and convenience. He is waited upon by two or four volunteers who deem it a personal honour to have so waited on him. On his arrival he is generally received with an ovation and a public demonstration in the form of a procession. There have been distinguished presidents who have been so conveyed to their destination midst the most enthusiastic cheers of the population, men, women and children.

On the opening day the President reaches the dais accompanied and followed by the Congress officers, namely, the General Secretaries, the Secretaries and Chairmen of the Reception Committee and the ex-Presidents who may be attending the Congress. As soon as they are easted, a gong is heard to announce the commencement of the sessions. The Chairman of the Reception Committee begins the proceedings by welcoming the delegates and touching upon the peculiarities of his city and on some provincial and other problems. Immediately thereafter the President is formally installed in the chair in terms of the Constitution. The chief proposer generally introduces him to the audience in a brief speech enumerating what he and what he has done for the country. Next the President rises in his place midst cheers and applause. Generally, the speech is written and printed. It is read, the reading generally occupying an hour and a half. He surveys the prevailing political situation, echoes Indian public opinion as expressed in the various organs during the year on problems of administration, and winds up with recommendations and suggestions for further reforms.

On the conclusion of the address a Subjects Committee from an ong the delegates is selected and announced from the Chair. Within half an hour or an hour at the most the Sub-

jects Committee meet in a secluded part of the pendal, strangers and delegates not on the Subjects Committee are requested to withdraw. The President becomes ex-officio the chairman of the Subjects Committee. Then they discuss the most important topics needing resolutions to be passed the following day. Here you see Congress delegates earnestly at their work. It is a kind of select committee of the House of Commons. Debaters, most eloquent de-baters, are often to the fore and make short speeches. A draft resolution is hewed, hacked and eventually knocked into shape, votes being always taken by a show of hands, and the chairman announcing the ayes or the noes as the case may be. In this way generally half a dozen important resolutions are passed. It is the duty of the Congress Secretaries to see that they immediately go to the press and are ready after correction and revision for the next day's session at noon. The general duration of a Subjects Committee for two days in succession is fully three hours. Sometimes disputed or exceedingly controversial matters prolong it by another hour. Thus it will be seen that the real solid work of a Congress session is done at the meetings of the Subjects Committee which contains the pick of the delegates attending a Congress.

The proceedings of the session in open Congress are regulated by the rules of order and procedure adopted under the constitution. Amendments are permitted to any delegate provided he gives notice to the President on the dais during the course of the particular resolution which may be roved. Votes by a show of hands are taken for and against. There are rules for special voting but these are rarely invoked, the fact being that harmony generally prevails owing to the merits of a resolution having been fully threshed out at the Subjects Committee meeting. The principal speakers and supporters are all selected by the Subjects Committee, but a President may permit a speaker not named in the agenda. Generally speaking the speeches are medioere. Rhetoric is absent save in some cases. There is ample eloquence and nine-tentis of the speeches are all extempore, of course the speakers preparing their principal observations beforehand. But what is known as 'manuscript eloquence' is exceedingly on the evening of the third day, the President is voted thanks and he makes a suitable reply. The session is then dissolved after the customary announcement of the next place where it is to be held.

Results.

Of the oldest class of Congress-men, say since its institution in 1885, there are a few only, say, Sir Pherozeshah M. Mehta, the Hon'ble Mr. Surendranath Banerii, the Hon. Mr. M. M. Malavya, the Hon. Mr. Ganga-prasad Varma, Mr. D. E. Wacha, Mr. P. N. Mudholkar, Mr. D. A. Khare and a few others. The composition of the Congress undergoes a change every few years. Looking back at the quarter of a century and more, it must be acknowledged that on the whole the Congress has done good solid work for the greater pro-

gress of the people. In reality it is a body of "Advanced Liberals" as Lord Lansdowne called it when he was Viceroy in India. As such its programme is always for Liberal reforms. It cannot be gainsaid that the two reforms between 1885 and 1909 for the Legislative Councils are principally owing to the continuous vigorous agitation of the Congress. The first reform took place in 1892 but it was The first reform took place in 1892 but it was discovered in a few years that the popular elective representation was inadequate, that there was no free discussion of the budget on the principle of taxation and representation, and that the privilege of interpellation, given in 1892, needed improvement and expansion. The Morley-Minto Reforms are entirely owing to the initiation and subsequent agitation of the Congress. It was also owing to the same organisation that the salt duty has eventually been reduced from 2½ to Re. 1 per maund. The higher limit of exemption from the income tax was also recommended by the Congress. It uniformly advocated the importance of the construction of irrigation works in pre-ference to railways. Its strictures on the past management of famine relief have been instrumental in bringing the ramme Rehet armangements almost to perfection. It is, again, almost wholly owing to Congress agitation that education of all kinds, especially primary and technical, have undergone an unprecedented development. Savitation owes its present condition partly to the Congress. The mental in bringing the Famine Relief arrangepresent condition partly to the Congress. The hardships involved in the original drastic codes on excise and forests have been somewhat mitigated by reason of the earnest prayers of the Congress. Land revenue assess-ments have received continual attention from the Congress, which is more or less in favour of a settlement as near to permanercy as pos-sible. But the voice of the Congress is still crying in the wilderness as far as simultaneous examinations and the separation of judicial and executive functions are concerned. Its agitation is consistent and persistent. Its appeals on behalf of Indians in South Africa and elsewhere have always been earnest and accompanied by moderation. On currency problems it has hitherto failed to see eye to pronterns it has intherto laued to see eye to eye with the State. In short, it may be correctly said that a fairly large number of grievances of the people which the Congress has voiced during the last 28 years have been redressed. The principal planks of its platform for some time are a great extension of the employment of Indians in the higher offices of the administration in reference to which the Public Services Commission has taken evidence: retrenchment of military expen-

diture; fiscal independence, notably in the matter of the excise duty on indigenous cotton manufactures; reform in the administration of criminal justice, in which is included the separation of judicial from executive functions; and the equal privilege of Indians as citizens of the British Empire in all parts of His Majesty's Dominions.

British Committee.

It may be observed in conclusion that the Congress has an organisation also in London which is called the British Committee of the Congress. It is furnished with funds provided by the Indian National Congress. It has an establishment of its own and attached to it. though with independent income, an organ of opinion, called "India", which echoes the salient events of what may have happened every week in India. As such it performs useful service. It is well informed and is liberally circulated among members of Parliament who sympathise with Irdian aspirations or take interest in the general progress and welfare of India. The Committee consists of retired Anglo-Indians and has been for years presided over by that well-wisher and disinterested friend of India, Sir William Wedderburr, who was twice elected President of the Congress. The Committee invariably invites distinguished or leading Indians when in London to take part in its deliberations. The Committee itself is in constant touch with all proceedings in the House of Commons on Indian affairs and often helps rembers to put questions when needed. Some years ago it formed a standing committee of members of the House of Commons and an attempt is about to be made to revive it. The Committee also keeps itself in communication with the India Office and often acts as a vehicle of conveying Indian and often acts as a venicie of conveying Indian opinion to the Secretary of State. As such the organisation renders valuable service to Indian cause in England.

The 1914 Session of the Congress was held at Karachi, under the Presidency of the Hon. Nawab Syed Muhammed Bahadur, of Madras. Whilst there were some notable absentees from the Session owing to various causes, the proceedings were marked by considerable enthusiasm. The principal topics discussed were the status of Indians in South Africa and the desirability of a closer understanding between the Hindu and Mahomedan communities, for the common advancement of India. The 1914-15 Session was fixed to be held at Madras under the presidency of the Hon, Mr. Basu of Calcutta.

The Moslem League.

The Indian Moslem League was established in 1906. Prior to that time the Indian Mos-lems had stood aloof from politics. Acting under the guidance of the greatest man they have produced, Sir SyedAhmad, they devoted have produced, Sir Syedammad, they devoted their attention to education, founding the Aligarh College with the special purpose of making up the leeway of Mahomedans in edu-cation, and left politics to the other Indian peoples. A few Mahomedans joined the National Congress and took part in its annual sessions; but the community as a whole stood aside from political movements.

In 1906 however changes occurred which impelled Indian Moslems to action. Under the Act of 1892, constituting the Indian Legis-lative Councils, there was no specific Moslem representation and in the elections which had taken place under that Act the Moslems had taken place under that Act the Moslems had for all practical purposes failed to find selection. Therefore, when the amendment of the Act and the extension of the representative principle were under discussion, they were stirred to action. They feared lest, under an academic system, adapted only to a homogeneous people, their distinct communal interests would either secure no representation at all, or only inadequate representation. at all, or only inadequate representation. They therefore took counsel together and approached the Viceroy in deputation, headed by His Highness the Aga Khan, and presented their views in an important State paper. In this they laid stress on their position in the following passage:—

"Representative institutions of the European type are new to the Indian people—many of the most thoughtful members of our community, in fact, consider that the greatest care, forethought, and caution will be necessary if they are to be successfully adapted to sary it they are to be successfully adapted to the social, religious and political conditions obtaining in India—and that in the absence of such care and caution their adoption is likely, amongst other evils, to place our na-tional interests at the disposal of an unsym-pathetic majority."

Feeling that the Mahomedans were a distinct community, and that their interests had suffered because they had been under-represented. the deputation asked for representation on a communal basis, and for representation in excess of their actual nunerical strength or account of the peculiar and historical position of the Moslem community. This request was accepted, and the Imperial and Provincial Councils embodied the principle of Mahomedan representation on a communal basis.

First Constitution.
It was felt that in view of the changed conditions the Moslems should organise their own ditions the mostems snound organise their own political society for the expression of their communal policy. This was the origin of the Moslem League. The rules and regulations of the League provided for a constitution, with provincial branches, and defined the objects of the League in the following language:—

The objects of the League shall be-(a) to promote among Indian Musalmans feelings of loyalty towards the British Gov-

that may arise as to the intentions of Government with regard to any of its measures:

(b) to protect the political and other rights and interests of Indian Musalmans and to place their needs and aspirations before the Government in temperate language:

(c) without prejudice to the objects mentioned under (a) and (b) of this section, to promote so far as possible concord and harmony between the Musalmans and other communities of India.

Revised Constitution.

In 1912 and 1913 Moslem opinion as expressed by the League underwent a certain change. First at a meeting of the Council, afterwards at the annual session which was held at Lucknow, the constitution was amended so as to include in the objects of the League the attainment of a system of self-govern-ment in India under the Crown. The objects of the League, as defined in the most recent publication, are thus set forth:-

The objects of the League shall be :-(a) to maintain and promote among the people of this country feelings of loyalty to-

wards the British Crown:

(b) to protect and advance the political and other rights and interests of the Indian Musalmans:

(c) to promote friendship and union between thè Musalmans and other communities of India:

(d) without detriment to the foregoing objects, attainment, under the ægis of the British Crown, of a system of self-government suitable to India, through constitutional mears, by bringing about, amongst others, a steady reform of the existing system of administration, by promoting national unity, by fostering public spirit among the people of India and by co-operating with other communities for the said purposes.

This change in the constitution of the League produced much discussion and was opposed by many of the older men who had led the community.

London Branch.

There is a branch of the Moslem League in London, of which the Right Hon. Syed Arrir Ali is President. In the autumn of 1913 the London office beares resigred, as the result of differences of opirion with two Indian Moslems who were visiting England, Mr. Mahomed Ali and Mr. Vazier Khan, the honorary secretary of the League. Syed honorary secretary of the League. Syed Amir Ali thus described the nature of these Amir All thus described the nature of these differences: "an endeavour to capture the organisation here and to impose on it their own will. To both of these attempts I was, in the interests of the Mussulman community, bound to take strong objection." In response to strong pressure from the Provincial Leagues in India, the London office bearers resumed their posts and the London Branch of the League continues under the former personnel.

The headquarters of the League are at Luck-

The annual session of the League was not held in 1914, as it was thought that the season ernment, and to remove any misconception | was one for co-operation, not for criticism.

The Press.

The newspaper Press in India is an essentially English institution and was introduced soon after the task of organising the administration was seriously taken in hand by the Regulating Act creating the Governor-General-ship and the Supreme Court in Bengal and within seven years at the end of the same decade, the first newspaper was started in Calcutta by an Englishman in January 1780. Exactly a century and a third has elapsed since, not a very long period certainly, a period almost measured by the life of a single newspaper, The Times, which came into existence only five years later in 1785; but then the period of British supremacy is not much longer, having commenced at Plassey, only twenty-three years earlier. Bombay followed Calcutta closely, and Madras did not lag much behind. In 1789 the first Bombay newspaper appeared, The Bombay Courier, a paper now represented by the Times of India with which it was amalgamated in 1861. In Bombay the advent of the press may be said to have followed the British occupation of the island much later than was the case in Calcutta. In Calcutta the English were on sufference before Plassey, but in Bombay they were absolute masters after 1665, and it is somewhat strange that no Englishman should have thought of The Herula.

The first newspaper was called The Bengal Gazette which is better known from the name of its founder as Hickey's Gazette or Journal. Hicky like most ploneers had to suffer for his enterprising spirit, though the fault was entirely his own, as he made his paper a medium of publishing gross scandal, and he and his journal disappeared from public view in 1782. Several journals rapidly followed Hicky's, though they did not fortunately copy its bad example. The Indian Gazette had a career of over half a century, when in 1833 it was merged into the Bengal Harkarn, which came into existence only a little later, and both are now represented by The Indian Daily News with which they were amalgamated in 1866. No fewer than five papers followed in as many years, the Bengal Gazette of 1780, and one of these, The Calcutta Gazette, started in February 1784, under the avowed patronage of Government, flourishes still as the official gazette of the Bengal Government.

From its commencement the press was jealously watched by the authorities, who put serious restraints upon its independence and pursued a policy of discouragement and rigorous control. Government objected to news of apparently the most trivial character affecting its servants. From 1791 to 1799 several editors were deported to Europe without trial and on short notice, whilst several more were censured and had to apologise. At the commencement of the rule of Wellesley, Government promulgated stringent rules for the public press and instituted an official censor to whom everything was to be submitted before publication, the penalty for offending against these rules to be immediate deportation. These

regulations continued in force till the time of the Marquis of Hastings who in 1818 abolished the censorship and substituted milder rules.

This change proved beneficial to the status of the press, for henceforward self-respecting and able men began slowly but steadily to join the ranks of journalism, which had till then been considered a low profession. Slik Buckingham, one of the ablest and best known of Anglo-Indian journalists of those days, availed himself of this comparative freedom to criticise the authorities, and under the short administration of Adam, a civilian who temporarily occupied Hasting's place, he was deported under rules specially passed. But Lord Amherst and still more Lord William Bentinck were persons of broad and liberal views, and under them the press was left practically free, though there existed certain regulations which were not enforced, though Lord Clare who was Governor of Bombay from 1831 to 1835, once strongly but in vain urgod the latter to enforce them. Metcalfe who succeeded for a brief period Bentinck, removed even these regulations, and brought about what is called the emancipation of the press in India in 1835, which was the beginning of a new era in the history of the Indian press. Among papers that came into being, was the Bombay Times which was started towards the close of 1838 by the leading merchants of Bombay, and which in 1881 changed it name, to the Times of India. The Bombay Gazette, founded in 1791, ceased publication in 1914. The liberal spirit in which Lord Hastings had begun to deal with the press led not only to the improvement in the tone and status

The liberal spirit in which Lord Hastings and begun to deal with the press led not only to the improvement in the tone and status of the Anglo-Indian press, but also to the rise of the Native or Indian Press. The first newspaper in any Indian language was the Samachar Durpan started by the famous Serampore Missionaries Ward, Carey and Marshman in 1818 in Bengall, and it received encouragement from Hastings who allowed it to circulate through the post office at one-fourth the usual rates. This was followed in 1822 by a purely native paper in Bombay called the Bombay Samachar which still exists, and thus was laid the foundation of the Native Indian Press which at the present day is by far the largest part of the press in India, numbering over 650 papers.

From 1835 to the Mutiny the press spread to other cities like Delhi, Agra, Gwallor, and even Lahore, whereas formerly it was chiefly confined to the Presidency towns. During the Mutiny its freedom land to be temporarily controlled by the Gagging Act which Canning passed in June 1857 on account of the license of a very few papers, and owing still more to the fears of its circulating intelligence which night be prejudicial to public interests. The Act was passed only for a year at the end of which the press was once more free.

On India passing to the Crown in 1858, an era of prosperity and progress opened for the whole country in which the press participated. There were 19 Anglo-Indian papers at the beginning of this period in 1858 and 25 Native papers and the circulation of all was very small. The number of the former did not show a greatrise in the next generation, but the rise in in-

fluence and also circulation was satisfactory. Famous journalists like Robert Knight, James Maclean and Hurris Mookerji flourished in this generation. The Civil and Military Gazette was originally published in Simla as a weekly paper, the first issue being dated June 22nd, 1872. Prior to and in the days of the Mutiny the most famous paper in Northern India was the Mojuszilité, originally published at Ambaba. After a lively existence for a few years in Simla the Civil and Military Gazette acquired and incorporated the Mojuszilite, and in 1876 the office of the paper was transterred from Simla to Lahore, and the Gazette began to be published daily. During Lord Lytton's viceroyalty a reactionary policy was pursued towards the vernacular press which was restrained by a special Act passed in 1878. With the advent of Lord Ripon in 1880, the Press Act of Lytton was repealed in 1882. The influence of the native press especially grew to be very great, and its circulation too re-

ceived a great fillip. This may be said to have gone on till 1897, when India entered upon a disastrous cycle of years during which plague and famine gave rise to grave political discontent which found exaggerated expression in the native press, both in the vernacular and in English. The deterioration in the tone of a section of the press became accentuated as years went on and prosecutions for sedition had little-effect in checking the sinister influence.

In 1910 Lord Minto passed a Press Act applicable, not like Lytton's Act, to the peccant part alone, but like Canning's measure, to the entire press. This measure is having the desired effect inasmuch as it has undoubtedly checked seditious writing in all the provinces where it had previously been most rife. One marked effect of the Act has been to increase the influence and circulation of the moderate papers. There is some tendency, as in Eastern Bengal, to evade the Act by the secret production and dissemination of seditious leaflets. (See also p.464.)

								. . B	ooks.
·	Province.				Printing Presses.	News- papers.	Periodi- cals.	In English or other European Languages.	In Indian Languages (Vernacular and Classical) or in more than one Language.
Bengal		••	٠		654	115	163	. 440	2,871
Bihar and	Orissa	••	•• .		113	20	20	116	716
United Pro	vinces	••			489	141	98	312	1,259
Punjab	••	• •		•	206	76	103	78	1,487
North-Wes	t Fron	tier Pro	ovince .	٠.	22	. 2	1		
Burma	••	••		٠.	127	50	57	31	804
Central Pro	ovince	and E	erar	٠.	75	15	15	21	141
Assam	••	••	••	٠.	42	12	4	1	26
Ajmer-Mer	wara	••	••	• •	9	2	5	3	21
Coorg	••	••	••	٠.	1		1		
Madras	••	••	••	٠.	619	87	1,499	518	1,822
Bombay	••	••		٠.	424	139	303	76	1,341
		Total,	1911-12	• •	2,781	659	2,269	1,596	9,988
				• •	2,751 2,736 2,594	658 726 738	1,902 - 829 895	1,578 2,112 1,687	10,063 9,934 8,345
T	otals	{	1906–7	• •	2,571 2,490	753 744	1,602 973	1,524 1,589	7,095 8,126
		ļ	1905-6 1904-5	::	2,380 2,252	747 713	793 747	1,411 1,321	7,644 7,023
		(1903-4 1902-3	::	2,139 2,156	709 657	719 691	1,294 1,252	6,824 6,783

Newspapers and News Agencies registered under the Press Rules and arranged alphabetically according to Station where they are published and situated.

NOTE.—News Agencies are distinguished by an asterisk.

Stations.		Title in full.		Day of going to Press.
Agra		Kayastha Hitkari		1st, 8th, 16th, and 24th of ever
rgtu		•		month.
		Ahmedabad Samachar Coronation Advertiser Gujarati Punch		
	1	Gujarati Punch		
Ahmedabad		Jaina Samachar Kathiawar and Mahikan Gazette.	tha ·	Sundays. Saturdays.
	1	Political Bhomiyo		Thursdays,
	Į.	Political Bhomiyo Praja Bandhu Rajasthan	• • •	Saturdays.
		i		Fridays.
Ajmer		Rajastan Samachar Berar Samachar		Thursdays. Sundays.
Akyab	. {	Arakan Times Arakan News	:: ::	Mondays and Thursdays. Tuesdays and Fridays.
Aligarh		Aligarh Institute Gaz: tte	•	Wednesdays.
	ĺ	Abhyudaya Hindustan Review Calcutta Intelligence Syn	diente	Fridays. On first of every month.
Allahabad		Leader		Daily, except Tuesdays.
	[]	Poincer Reuter's Telegram Compa		Daily.
	,			
Amraoti	[Kartawya Pramod Sindhu		Tuesdays. Mondays.
	(Veer Shaio Sanjeevince		Mondays.
Amreli		Islam Gazette		Thursdays.
Amroha Bagerhat				Saturdays. Sundays.
Bagerhat		To the Total		Daily.
Bangalore	Ţ	Daily Post		Daily.
Dangaiore	Ĺ	Daily Post Army and Civil News Kasim-ul-Akhbar	••	Mondays and Thursdays.
	۲	Behar Bhandu		Fridays.
Bankipore	{			Saturdays. Daily.
	1	Beharee Express		Tuesdays, Thursdays and Satur
		-		days. Sundays.
Barisal		Barisal Hitaishi Shree Sayaji Vijaya	:: ::	Thursdays.
Bassein, Burma		Bassein News		Tuesdays and Fridays. Every other Saturday.
Batticaloa (Ceylon)		Lamp Belgaum Samachar	::	Mondays.
Belgaum	• • • •	A Company of the Comp		Every Wednesday.
D (1) 4-1	ſ	Awazai Khalk Bharat Jiwan Indian Student		Sundays.
Benares City .	• 1	Awazai Khalk Bharat Jiwan Indian Student		27th of each month.
Pharmaran	•			Tucsdays.
Bhavnagar . Bihar (Patna) .		TAK-LAN		Wednesdays. Saturdays.
Bijapur		Karnatak Vaibhav		Daturdays.

Stations,	ļ	Title in full.	Date of going to Press.
		Advocate of India Akhbar-i-Islam Akhbar-i-Islam Akhbar-i-Sudagar Andhra Patrika Argus Asociated Press Bombay Chronicle Bombay Guardian Bombay Samachar Briton Catholic Examiner Guijarati	Daily. Daily. Daily. Daily. Except on Sundays. Wednesdays. Sundays. Daily, except Saturday Evening and Sunday Morning. Fridays. Daily. Daily, except Saturdays. Thursdays. Saturdays.
Bombay		Illustrated Sporting Review Indian Industries and Power Indian Investors' Referce Indian Social Reformer Indian Spectator Indian Spectator and the Voice of India, Indu Prakash	Saturdays. On the 15th of each month. Fridays. Saturdays. Fridays.
		Jaina Jam-e-Jamshed Kaiser-i-Hind Muslim Herald Muslim Times	Daily, except Sundays. Saturdays. Daily, except Saturdays. Saturdays. Saturdays. Fridays. Fridays. Tuesdays.
		O Anglo-Lustiano The Parsi Railway Times Rast Goftar Reuter's Indian Journal Reuter's Telegram Company	aturdays. Saturdays. Fridays. Sundays. Daily.
	-	Limited Sanj Vartaman Shri Venkateshwar Samachar Times of India Times of India Illustrated Weekly. United Press Syndicate	Daily, except Sundays. Fridays. Daily. Wednesdays.
Bowringpet Budson		Kolar Gold Fields News Akhbor Zulqarnain	Tuesdays.
Calangute (Goa)		A Voz do Povo	6th, 13th, 20th, and 27th of every month. Saturdays.
		Amrita Bazar Patrika Asian Associated Press Baugabasi Bengalee Bharata Mitra Calcutta Intelligence Syndicate	Daily. Daily. Fridays. Wednesdays. Daily, except Sundays. Thursdays.
Calcutta		Catholic Herald of India Dainik Hitabadi Empire (Calcutta Evening News) Englishman Hablul Matin	Thursdays. Tuesdays. Daily, except Wednesdays. Daily, except Sundays. Daily. Daily.
		Handicap Hindoo Patriot Hitabadi Indian and Eastern Engineer Indian Dally News	Daily, except Sundays, Fridays, Daily, except Saturdays, Wednesdays, 14th of each month, Daily, except Sundays, Fridays,
	į	Indian Empire Indian Engineering Indian Express	Wednesdays and Saturdays. Thursdays. Once a month.

	The Press.	459
Stations.	Title in full.	Day of going to Press.
	T- 11 TI-13	*****
1	Indian Field Indian Methodist Times	Wednesdays. Last day of month.
. 1	Indian Mirror Indian Nation	Daily.
	Indian Nation	Saturdays.
i	Indian Planters' Gazette	Saturdays.
	Indian Public Health Indo-British Press Agency	15th of each month.
. 1	Mosiem Chronicle and Muhain-	
-	madan Observer.	Thursdays.
}	Mussalman	Thursdays.
Calcutta	Railways, and Shipping	15th and last day of every mont
	Reis and Rayyet	Saturdays.
1	Railways, and Shipping	•••••
		Wednesdays.
.]	Samay	Wednesdays. Daily, except Sundays.
1	Swadesh	Sundays.
į	Samay Statesman Swadesh Telegraph Times of India Illustrated Weekly	Wednesdays.
1	Times of India Illustrated Weekly. United Press Syndicate*	*****
1	Manorama	Fridays.
·	Kerala Sanchari	Wednesdays.
Calicut	West Coast Reformer	Sundays and Thursdays.
r	West Coast Spectator	Wednesdays and Saturdays.
į.	Azad	Wednesdays.
Cawnpore	Reuter's Telegram Company, Li- mited	*****
. t.	Zamana	25th day of every month.
Th.l	Edwartion Cognette	Tuesdays.
Chinsurah	Education Gazette Jyoti	Wednesdays.
	•	S. Amada
Sochin	Cochin Argus	Saturdays. Saturdays.
	Cochin Argus	Tuesdays and Fridays.
ſ	Contra Tadamandant	Daily.
	Ceylon Morning Leader	Daily.
1	Ceylon Observer	Daily. Saturdays.
1	Ceylon Morning Leader Ceylon Observer Ceylon Sportsman Ceylonese	Daily.
- [Ceylonese	Mondays, Tuesdays, Thursday
Colombo	Dinamina	and Saturdays. Daily, except Sundays.
,	Dinamina Dravida Mitran Islam Mittiran	Wednesdays and Saturdays.
Į.	Islam Mittiran	Saturdays. Mondays and Thursdays.
· · · · · · · · · · · · · · · · · · ·	Sarasavi Sandaresa	Tuesdays and Fridays.
ł	Sihala Samaya	Mondays and Thursdays.
	Sinhala Bauddhaya Times of Ceylon	Saturdays. Daily.
		-
Comilia	Hitavarta Utkal Deepica	Wednesdays. Fridays.
Contai	Nihar	Mondays.
•		
Ì	Dacca Gazette	Mondays.
Dacca	Dacca Prokash	Sundays. Thursdays and Sundays.
	East	THRISCHAR WHA CORRESTOR

Stations.	Title in full.	Date of going to Press.
3)arjeeling	Associated Press	Mondays. Fridays.
Delhi {	Comrade Durbar Bulletin	Daily.
1	Morning Post	
Dharwar	Dharwarvritt Karnataka Patra Karnatakavritta and Dhananjaya Kshema Samachar	Fridays. Tuesdays.
Dhulia Dibrugarh	Khandesh Vaibhav	T-13
Guntur	Knyastha Messenger Deshabimani Kannad Kesari	. Daily.
Hyderabad, Deccan	Sahifa-i-Rozana	Daily. Daily. Daily.
Hyderabad, Sind	Musafir	. Wednesdays. Saturdays. Tuesdays and Fridays.
Jaffna	Ceylon Patriot and Weekly Advertiser. Jafina Catholic Guardian. Vasayilan Jafina Native Opinion Sithia Veda Pathukavalan	Tuesdays. Saturday Mornings. Fortnightly on Mondays. Every other Friday evening.
Jaffna (Vannarponnai)	Hindu Organ	Wednesdays.
Jubbulpore	India Sunday School Journal Jubbulpore Post	Third Thursday of every month Fridays Tucsdays.
Kankhal	Karachi Argus	Wednesdays.
Karachi	Karachi Chronicle Parsi Sansar Praja Mitra Phœnix! Reuter's Telegram Company, 1 mited.	1
	Sind Gazette Sind Observer Sind Sudhar Star of India	Daily except Sundays. Wednesdays and Saturdays. Saturdays. Saturdays.
Khulna Kolhapur City	Khulna Basi Vidyavilas	Saturdays. Fridays.
Kottayam	Malayala Manorama Nazrani Deepka	Wednesdays and Saturdays Tuesdays.
Kurunegala	Abhinawa Kawata Angana	Days prior to the 1st and 15th of every month.

			·	The F	Press.		461	
Stations,				Title in ft	all.	Day of going to Press.		
			Akhbar	-i-Am	••	••		
			Arya Pa		• •	• •		
			Civil an	ted Press d Military Ga	zette		Daily, (Sundays excepted).	
			Desn		• •	••		
			Hindust	tan khbar			Wednesdays.	
Lahore			Punish	khbar				
LAGIOLO	••	••				•••	days.	
			Punjab	Observer Samachar Gazette			Wednesdays and Saturdays. Fridays.	
			Rajput	Gazette		• •	1st, 8th, 16th and 24th of every	
			! !				month.	
			Limit	Telegram Cor ed				
			Tribune	• • •		••	Daily, except Sundays.	
			Watan	••	••	• •	Thursdays.	
-1			Khairkh	ah Gazette			Saturdays.	
Larkana	• •	••	Larkana Sind Pat	trika	::		Fridays. Saturday.	
			ı		••		·	
			Advocat	e	• •		Wednesdays and Saturays. Thursdays.	
				Daily Telegrap	h	::	Daily.	
			11			- 1	Wednesdays.	
Lucknow			Kaukab-	Vitness	• • •	- : :	Wednesdays.	
	••		Kavasth	a Mutual Fan	illy Per	nsion	15th day of every month.	
			Fund Muslim	News. Gazette			Tuesdays.	
			Oudh Al	khbar	::		Daily, except Sundays.	
			Al-Mazm	un			On the first of every month.	
			Andhra	Patrika		::	Tuesdays.	
			Anglo-In	dian	• •		Thursdays.	
			Associate Hindu—	ed Press See against M	ount Ro	ad	*****	
			Indian P Indian R	atriot Iailway Journa	al ::	٠	Daily. 15th of every month.	
			Toridadia	Rozgar			Saturdays.	
iadras			Law Tim	168			Saturdays.	
			Madras New Ind	Mail ia		::	Daily.	
			Madras	limes	: <i>:</i>	::	Daily, except Saturdays. Mondays and Thursdays.	
			Mukhbir	-i-Deccan Telegram Con			Wednesdays.	
			Shamsul Swadesa	Akhbar Mitran		::	Mondays. Daily, except Sundays	
f = 3			- 1	dian Mail			Mondays.	
ladura Iapuca	::	• • •	South in	igian man	••		Daily.	
P			Noticias				Mondays.	
							Mondays and Fridays.	

Station	в.		Title in fo	nli.			Day of going to Press.
Matheran Mattancheri	::		Matheran Jottings Chakravarthi	. :		·.;	Tuesdays and Fridays. Saturdays.
Mirpurkhas		{	Mirpurkhas Gazette Zaminder Gazette	e .	-	::	Wednesdays. Thursdays.
Mirzapur City			Khichri Samachar				Saturdays.
		(Al-Musher .				4th, 11th, 18th, 25th of every
			Colonel			•.•	month. 1st, 8th, 16th and 24th of every
Moradabad		1	Meston News				month. 4th, 12th, 20th and 28th of every
			Citore 1 Trie 7				month. 4th, 12th, 20th and 28th of every
		Ų		•	•	••	month.
Moulmein			Moulmein Advertis	er .	•		Tuesdays, Thursdays and Satar-
	••	{	Rammenna Times	•			Mondays, Wednesdays and Fridays.
Mount Road, Ma	adras	• •	Hindu .				Daily, except Sundays.
Mussoorie	••	1	Echo Mussoorie Times	• :			Fridays. Thursdays.
Muttra		٠.,	Inniskilliner .				7th of each month.
Muvattupuzha Mymensingh	••	• • •	Kerala Dheepika				Fridays.
Nagercoll	::	::	Charu Mihir Travancore Times	• :		::	Tuesdays. Tuesdays.
Nagpur		. {	Nagpur and Berar			•••	Fridays. Mondays.
Navsari			Independent				Saturdays.
Nova Goa		-{	Heraldo .		•		Wednesdays. Daily. Mondays. Daily, except Mondays. Daily, except Sundays and
Ootacamund			g				holidays.
Pandharpur	••	••	South of India Obs	erver a	nd Ni	l-	Daily issue Sundays.
Panjim Goa	• •	• •	Pandhari Mitra			٠.	Sundays.
Pen		• • •	i Sildhakar		•	• •	Saturdays.
		٢	Afghan	•	•	••	Fridays.
Peshawar	••	į	Reuter's Telegram Limited.	Compa	ny,	••	Daily.
		-	Duyan Chakshu Dynana Prakas	: :	•	 ::	Dally. Wednesdays. Dally, except Mondays.
Poons		1	Evening Dispatch . Kesari				Daily, except Sundays. Tuesdays.
		-	Maharatta '	:: :		::	Tuesdays. Sundays.
		- I	Pandit				
		ı	Poona Mail			••	Daily, and weekly on Wednesdays
						::	Daily.
		ι.	Sudharak or Reform	mer .		::	Sundays.
			<u> </u>				· · · · · · · · · · · · · · · · · · ·

Sta	tions.		Title in full.	Day of going to Press.
Poons City Quetta	::	::	Vande Mataram Baluchistan Gazette	Saturdays. Wednesdays and Saturdays.
Quilon Rajkot	::		Malayali	Wednesdays and Saturdays. Wednesdays and Sundays.
Rangoon	••	{	Burma Sunday Times Rangoon Gazette	Sundays. Daily, except Saturday evening and Sunday morning. Daily, except Sundays.
Ratnagiri	••	{	Bakool	Saturdays. Sundays.
Rawalpindi Satara Satara City		•	Punjab Times	Saturdays and Wednesdays. Fridays. Wednesdays.
Secunderabad		{	Hyderabad Bulletin Notice Sheet	Daily. Daily.
Shahjahanpur Shikarpur (Sir	nd)	•	Sarpunch Trade Advertiser (Waper-Sama- char)	Daily Saturdays.
Shillong			Assan Advertiser	Fridays.
Sholapur		- {	Kalpataru Sholapur Samachar	Sundays. Tuesdays.
		ſ	Associated Press Indian News Agency	*****
Simla		ļ	Indian War Cry News of India	27th of each month. Wednesdays.
		l	Pioneer Daily Bulletin	Week days.
Sukkur	••		Sindhi	Saturdays.
Surat	••	{	Apakshapata Deshi Mitra Gujrat Mittra and Gujrat Darpan Praja Pokar Surat Akhbar	Saturdays. Thursdays. Saturdays. Wednesdays. Sundays.
Sylhet Tamluk Tangail	::		Paridarsaka	Wednesdays. Saturdays. Fridays.
Thana Trichur	••	:-	Arunodoya Lokaprakasam	Sundays. Mondays.
Truvalla Trivandrum	::	::	Kerala Taraka Western Star	Wednesdays. Tuesdays, Thursdays, and Saturdays. days.
Vizagapatam	••	••	Andhra Advocate	Fridays. Mondays.
Wai	• ••	{	Modavritta	Mondays.
Yeotmal	••	••	Harikishore	Sundays.

The Newspapers (Incitements to Offences) Act, 1908, was passed in view of the close connexion between the perpetration of outrages by means of explosives and the publication of criminal incitements in certain newspapers. The Act deals only with incitements to murder, to offences under the Explosive Substances Act, 1908, and to acts of violence. It gives power in such cases to confiscate the printing press used in the production of the newspaper, and to stop the lawful issue of the newspaper. The procedure adopted in the Act follows the general lines of that provided in the Code of criminal Procedure for dealing with public nuisances, with the addition that the final order of the magistrate directing the forfeiture of the press is appealable to the High Court within 15 days. It is further provided that no action can be taken against a press save on the application of a Local Government. When an order of forfeiture has been made by the magistrate, but only in that case, the Local Government is empowered to annul the declaration made by the printer and publisher of the newspaper under the Press and Registration of Books Act, 1887, and thereafter neither that newspaper nor any other without a breach of the law.

The Indian Press Act, 1910, was a measure of wider scope, the main object of which was to ensure that the Indian press generally should be kept within the limits of legitimate discussion.

The Act deals, not only with incitements to murder and acts of violence, but also with other specified classes of published matter, including any words or signs tending to seduce soldiers or sailors from their allegiance or duty, to bring into hatred or contempt the British Government, any Native Prince, or any section of His Majesty's subjects in India, or to intimidate public servants or private individuals.

The different sections of the Act have in view (i) Control over presses and means of publication; (ii) control over publishers of newspapers; (iii) control over the importation into British India and the transmission by the post of objectionable matter; (iv) the suppression of seditions or objectionable newspapers, books, or other documents wherever found.

As regards the first of these objects, it is laid down that proprietors of printing presses making a declaration for the first time under section 4 of the Press and Registration of Books

Act, 1867, shall give security, which may, however, be dispensed with by the magistrate at his discretion; that the proprietors of presses established before the passing of the Act may similarly be required to give security if and when they are guilty of printing objectionable matter of the description to which the Act applies; and that, where security has been deposited, Local Governments may declare such security forfeit where it appears to them that the press has been used for printing or publishing such objectionable matter. When the initial security so deposited has thus been forfeited, the deposit of further security in a larger sum is required before a fresh declaration can be made under section 4 of the Press and Registration of Books Act, and, if thereafter the press is again used for printing or publishing objectionable matter the further security deposited and the press itself may be declared forfeit.

Control over publishers of newspapers, the second main object of the Act, is provided for in a similar manner. The keeping of a printing press and the publishing of a newspaper without depositing security when required are punishable with the penalties prescribed for failure to make the declarations required by sections 4 and 5 of the Press and Registration of Books Act, 1867.

Other provisions deal with the cases of books or pamphlets printed out of India or secretly in India. The more efficient control over the importation and transmission by post of objectionable matter of the kind described in the Act is given by empowering the customs and post office authorities to detain and examine packages suspected of containing such matter, and to submit them for the orders of the Local Government.

The fourth object of the Act is attained by authorising the Local Government to declare forfeit any newspaper, book or other document which appears to it to contain matter of the prohibited description, and upon such a declaration the Act empowers the police to seize such articles and to search for the same.

prohibited escription, and upon such a decisration the Act empowers the police to seize such articles and to search for the same.

In any case in which an order of forfeiture is passed by the Local Government, an application may be made to the High Court on the question of fact whether the matter objected to is, or is not, of the nature described in the Act. For the most part the object of the Act has been secured, as regards the local press, without recourse to the power of confiscating security.

Societies: Literary, Scientific and Social.

AGRICULTURAL AND HORTICULTURAL SOCIETY OF INDIA (Calcutta).—Founded 1820. Annual subscription Rs. 32. Entrance fee Rs. 8. Secretary, F. H. Abbott. 17, Alipore Road, Alipore.

AGRI-HORTICULTURAL SOCIETY OF BURMA.— Secretary, Capt. W. H. Allen, Victoria Park,

Kandawglay.

AGRI-HORTICULTURAL SOCIETY OF MADRAS Established 1833. Quarterly subscription for members in Class A Rs. 7, in Class B Rs. 3. Secretary, P. F. Fyson, Mount Road, Teynampett, S. W., Madras.

ANTHROPOLOGICAL SOCIETY OF BOMBAY.— Founded 1886, to promote the prosecution of Anthropological research in India; to of Anthropological research in India; to correspond with Anthropological Societies throughout the world; to hold monthly meetings for reading and discussing papers; and to publish a periodical journal containing the transactions of the Society. Annual subscription Rs. 10. Secretary, R. P. Masani, M. A., Town Hall, Bombay.

ASIATIO SOCIETY OF BENGAL (Calcutta). Secretary, G. H. Street, Calcutta. G. H. Tipper, M.A., 57, Park

BOMBAY ART SOCIETY .- Founded 1888, promote and encourage Art by exhibitions of Pictures and Applied Arts, and to assist in the establishment and maintenance of a permanent gallery for Pictures and other works of Art. Annual exhibition every February. Annual subscription Rs. 10; Life Member Rs. 100. Secretary, Prof. O. V. Muller, M.A., Elphinstone College, Bombay.

BOMBAY BRANCH OF THE CLASSICAL ASSOCIA-TION.—The classical Association was started, in 1903 in London, to promote the develop-ment and maintain the well-being of classical studies. The Bombay Branch was founded in 1910; it numbers 137 members; holds for 6 meetings a year; and publishes a yearly journal. Subscription Rs. 6 for ordinary and Rs. 2-8-0 for associate members.

Secretary, The Rev. A. Ailinger, S. J., St. Xavier's College, Bombay.

BOMBAY BRANCH OF THE ROYAL ASIATIO

SOCIETY.—Founded 1804 to investigate and encourage Oriental Arts, Sciences and Lite-

rature. Annual subscription Rs. 50. Secretary, Prof. G. Anderson. Town Hall, Bombay. BOMBAY NATURAL HISTORY SOCIETY.—Founded 1883, to promote the study of Natural History in all its branches. The Society has a small museum with a representative collec-

tion of the different vertebrates and invertebrates found in the Indian Empire and Ceylon. A Journal is published quarterly which contains articles on different natural history subjects as well as descriptions of new species and local lists of different orders. In the more recent numbers serial articles on game birds, common snakes, and common butterfiles have been appearing. Annual subscription Rs. 15. Entrance fee, Rs. 10. Honorary Secretary, W. S. Millard, 6, Apollo Street, Bombay.

BRITISH AND FOREIGN BIBLE SOCIETY .-Since 1811 the British and Foreign Bible Society has been at work in this country. It has 6 Auxiliaries in India and an Agency in Burma. The first Auxiliary was established in Calcutta, in 1811, then followed the Bombay Auxiliary in 1813, the Madras Auxiliary in 1845, the Punjab Auxiliary in 1845, the Punjab Auxiliary in 1868, the Bangalore Auxiliary in 1875, while the Burma Agency was founded in 1899. Bible or some portion of it, is now to be had in 80 different Indian languages and dialects and the circulation throughout India and Burma reached over 1,000,000 copies in 1913. The Bibles, Testaments, and Por-tions in the various Vernaculars are sold at rates which the very poorest can pay, and at considerable loss to the Society. Grants of English Scriptures are made to Students who pass the various University examinations, whose applications are countersigned

by their Principals, as under:

The 4 Gospels and the Book of Acts in
1 Vol. to Matriculates.

The New Testament and Psalms to Intermediates, The Bible to Graduates.

Last year'no fewer than 9,000 volumes were so distributed. Portions of Scriptures in the important vernaculars have been prepared in raised type for the use of the Blind and large grants of money are annually given to the different Missions, to enable them to carry on Bible-women's and Colportage work.

Besides the British and Foreign Bible Society, there is Bible work carried on, in India, Assam and Burma in a much smaller way, by the Bible Translation Society—which is connected with the Baptist Missionary Society-the American and Canadian Baptist Mission, the National Bible Society of Scotland, and the Tranquebar Tamil Bible Society

The following tables show the growth in the British & Foreign Bible Society's work during the past few years in India & Burma :-

CIRCULATION OF THE B.F.B.S. IN INDIA.

	Auxiliari	es.				1912.	1911.	1910.	1909.
Calcutta		 -			}	191,809 (127,964	123,899	125,251
Bombay		• •	••	• •	• •	161,128	140,852	138,907	128,778 199,395
Madras	••	• •	• •	••	•••	268,688 33,630	266,911 32,958	250,273 22,309	20,765
Bangalore North India		• • •	::	• • •	::	212,011	186.911	148,681	122,012
Punjab	::	::	::	::	•••	84,014	74,831	71,842	58,804
To	tal copies	of Scri	ptures			951,280	830,427	755,911	055,005

These returns do not include the copies which any Auxiliary has supplied to London or to Other Auxiliaries and agencies during the year.

TABLE OF CIRCULATION IN BURMA.

Channels.			Bibles,	Tests.	Por- tions.	Totals, 1912.	Totals, 1911.	Totals, 1910.
Sales by colportage		<u> </u>	765	1,164	91,921	93,850	76,516	70,209
Sales at Rangoon depot			860	- 1,372	8,441	10,673	11,494	10,359
Sales at branch-depots			61	192	1,641	1,894	2,327	3,676
Sales by Biblewomen	••		1	13	2,087	2,101	982	1,766
Total sales			1,687	2,741	104,090	108,518	91,319	86,010
Free grants	•• .		15	18	100	128	97	108
Totals		•	1,702	2,754	104,190	108,646	91,416	86,118

RITISH MEDICAL ASSOCIATION, (Bombay Branch).—Founded 1886, to promote Medical and the Allied Sciences and the mainte-nance of the honour and interests of the Medical Profession. Secretary, Dr. D. R. Bardi, Bombay.

Union.-Founded 1883 BOMBAY MEDICAL to promote friendly intercourse and exchange of views and experiences between its members and to maintain the interest and status of and to maintain the interest and several the medical profession in Bombay. The entrance fee for Resident members Rs. 5, monthly subscription Rs. 2. Absent members Rs. 1, and non-resident members yearly pers 16s. 1, and non-resident members yearly subscription Rs. 5. President: Khan Baha-dur Dr. N. H. Choksy. Secretaries: Dr. D. M. Gagrat and Dr. K. K. Dadachanji. Dr. M. D. D. Gilder, Hon. Librarian, Sir D. M. Petit Medical Union Library. Hon. Treasurer Dr. V. M. Bhajekar. Readymoney Buildings, Apollo Bunder, Bombay.

BOMBAY . SANITARY ASSOCIATION .to create an educated public opinion with regard to sanitary matters in general; (b) regard to sammary matters in general, (v) to diffuse the knowledge of sanitation and hygiene generally, and of the prevention of the spread of disease amongst all classes of the spread of disease amongst all classes of people by means of lectures, leaflets and practical demonstrations and, if possible, by holding classes and examinations; (c), to promote sanitary science by giving prizes, rewards or medals to those who may by diligent application add to our knowledge in sanitary science by original research or otherwise; (d) to arrange for homely talk or simple practical lectures for mothers and girls in the various localities and different chards, provided the people in such locachawls, provided the people in such loca-lities or chawls give facilities. Hon. Secretary, Dr. J. A. Turner, M.D., Municipal Health Officer, Bombay.

EUROPEAN Association .- The Association was established in 1883 under the title of the European and Anglo-Indian Defence Association and was re-established in 1912 under the title of the European Defence Association but the present title was adopted in 1913. The Association has

for its objects the general protection of Eurofor its objects the general protection of European interests and the promotion of European welfare. The Association numbers 3370. The Head Offices are at Grosvenor House, Calcutta. President, Mr. L. P. E. Pugh. Secretary, Mr. Alec Marsh.

BRANCHES OF THE EUROPEAN ASSOCIATION. ASSAM VALLEY, DIBRUGARH.—Chairman, Mr. R. A. Collie. Secretary, Mr. W. Dorward. BIHAR, MoZUFFERFORE.—Chairman, Mr. V. N. Hickley, C.I.R. Secretary, The Hon'ble Mr.

Hickley, C.I.R. Secretary, The Hon'ble Mr. T. B. Filgate, C.I.E. BOMBAY.—Chairman, Mr. L. H. Savile. Secretary, Mr. A. W. S. Wise.

DARJEELING.—Chairman, Mr. H. B. Irwin.

DARJEELING.—Chairman, Mr. H. D. Lawin Secretary, Mr. G. Wrangham-Hardy. DELHI.—Chairman, Mr. C. E. Bickley Roe. Secretary, Mr. R. E. Grant Govan. DOOARS, JALPAIOSHI.—Chairman, Mr. H. Child. Secretary, Mr. J. M. Walker. Madras.—Chairman, The Hon'ble Mr. J. O. Bohingan Secretary Mr. P. Holt.

MADIAS.—Chairman, The Hon die Mr. 3. C. Robinson. Secretary, Mr. P. Holt.
PUNJAB, LAHORE.—Chairman, Mr W. Muir
Masson. Secretary, Mr. L. Saunders.
SIND, KARACHI.—Chairman, Mr. J. I. Murray.
Secretary, Mr. R. D. Marshal.
SURMA VALLEY, SIICHAR.—Chairman, Mr.
R. St. J. Hickman. Secretary, Mr. R. St. J.
Hickman. Secretary, Mr. R. St. J.

Hickman.

United Provinces, Cawnfore.—Chairman, Mr. A. B. Shakespear, C.I.E. Secretary, Mr. J. G. Ryan.

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE (Calcutta).—Secretary, Dr. Amrita Lal Sircar, 210, Bow Bazar Street, Calcutta.

INDIAN MATHEMATICAL SOCIETY, founded in 1907 for the advancement of Mathematical studies in India. It conducts a bi-monthly jornal in which papers on mathematical subjects are published and maintains a library with current mathematical periodicals in all languages and new books in the subject. The library is located in the Fergusson College, Poons, whence the journals and books are circulated to members by post. The journal of the society is published in Madras. There are about 150 members from all parts of

India. President, Prof. R. N. Apte of Kolhapur. Secretaries, Prof. D. D. Kapadia, Poona, and Prof. M. T. Naraniengar, Bangalore. Librarian, Principal R. P. Paranipye, Poona. INDIAN SOCIETY OF ORIENTAL ART (Calcutta.) —Joint Sees. and Treases., N. Blount and

INDIAN SOCIETY OF ORIENTAL ART (Calcutta.)

Joint Sees. and Treases., N. Blount and
B. C. Law. P. O. Box No. 8, Calcutta.

INDIA SUNDAY SCHOOL UNION.—The India
Sunday School Union is a large indigenous
interdenominational Society having the sympathy and Co-operation of the greater number of Missionary Societies in India. The
great purposes of the Union are the promotion of systematic and careful Bible study, and
the increased efficiency of Sunday School
in India. Its operations extend beyond
the borders of India itself to Arabia, Siam,
Borneo and Assam. Upwards of 650,000
Sunday School sere connected with the
Union, speaking 60 Vernaculars. One Certral and 40 Provincial Committees control
its Indian work, which forms part of a world
wide movement with a membership of
28,000,000.

28,000,000.

The India Union was founded in Allahabad in 1876. Yearly examinations are held for both teachers and scholars in 31 centres, for which medals, prizes, scripture awards, and certificates are granted to successful candidates, upwards of 20,000 entered these Exams. for 1913. Notes on the daily portions of the Interdenominational Bible Reading Association are published by the I. S. S. U. in English and 14 Vernaculars, and 50 editions of the S. S. Lesson Expositions are published in 20 Vernaculars. In addition, there is a large publication of literature dealing with all phases of child study and moral and religious training. The monthly publication of the Union is the India Sunday School Journal. Two whole-time and twenty-four part-time missioners are devoted to the work of Union. The Teachers Training Department is under the care of Mr. E. A. Annett.

the care of Mr. E. A. Annett.

General Secretary of the Union, the Rev. R.

Burges, India Sunday School Union Office,

Jubbulpore.

MADRAS FINE ARTS SOCIETY.—Secretary,
Edgar Thurston, Central Museum, Madras,
MADRAS LITERARY SOCIETY AND AUXILIARY
OF THE ROYAL ASIATIC SOCIETY.—Secretary,
W. F. Grahame, I.C.S., College Road, Nungambaukum.

PHILATELIO SOCIETY OF INDIA.—Annual subscription Rs. 20. Secretary, J. Godinho, Girgaum, Bombay.

PHOTOGRAPHIO SOCIETY OF INDIA (Calcutta).
—Annual subscription Rs. 24 (Town Members) and Rs. 10 (Mofussil members). Entrance fee Rs. 20 and Rs. 10. Secretary, A. K. Taylor, 40, Chowringhee Road, Calcutta.
RANGOON LITERARY SOCIETY.—Secretary, M. Hunter, 13, York Road.

RANGOON MUSICAL AND DRAMATIC SOCIETY.
—Founded 1900. Secretary, Miss R. West,
Dalhouele Street. Rangoon.

SERVANTS OF INDIA SOCIETY.—The Servants of India Society which was founded by the Hon'ble Mr. Gopal Krishna Gokhale, B.A., C.I.E. in 1905 has its Head-quarters in Poona and its objects are "to train national missionaries for the service of India and to promote, by all constitutional means the

true interests of the Indian people." Its government is vested in the First member who is Mr. Gokhale and a Council. It has at present four branches, viz,, (1) in Bombay, (2) in Madras, (3) in the United Provinces, (4) in Central Provinces. Each Branch consists of ordinary members, members under-training and permanent assistants who work under the direction of a Senior Member. The branches engage both in propagandist and active work of political, educational, social, agricultural and philanthropic character. A better idea of the work of a branch can be had from a brief description of the operations of the Bombay Branch whose members have so far undertaken activities in various fields. (1) Social purity like the Holika Sammelan of Bombay, (2) Social reform organization under the auspices of the National Social Conference, (3) rousing public opinion about elementary education, (4) promotion of the cause of elevation and education of Indian women by building up institutions like the Seva Sadan, Poona Branch, (5) Social Service as carried out by the Social Service League of Bombay, (6) spread of co-opera-tive movement among the agriculturisrs, compositors, and mill-hands, (7) relief work connected with wide-spread calamities by organizing the Plague Relief Committee of Poona which succeeded in making inoculation popular in the Decean, the Salumbra Fire itelief Committee which arranged for the relief to sufferers for five years and by undertaking a scheme of non-official relief during the famines of 1907-08 and 1914 in the United Provinces, the famine in Gujarat and Kathiawar of 1911-12 and the famine of 1913 in the district of Ahmednagar, (8) organising public opinion on the question of Indiana in South Abelian Indians in South Africa.

The expenses incurred by the Central Home of the Society in Poona and its four branches exceed Rs. 20,000 a year and this amount is made up by contributions from Indians, rich as well as poor. The present number of workers enlisted by the Society is about 25 most of whom are University men of considerable standing.

SEVA SADAN.—The Seva Sadan Society was started on the 11th of July, 1908, by the late Mr. B. M. Malabari. It is the pioneer Indian ladies' society for training Indian sisters ministrant and serving (through them) the poor, the sick and the distressed. The society has a habitation in Gamdevi, Bombuy, One-half of the Building and Endowment Fund of Rs. 82,000 has been spent mainly in building at Gamdevi and partly in the purchase of two acres of land at Santa Cruz for a "Sisters' Home" and other purposes.

The Society maintains the following Institutions for training its probationers and for doing its other work. 1. A home for the Homeless. 2. An Industrial Home with various departments. 3. A Shelter for the distressed. 4. A Dispensary for Women and Children. 6. Ashrama for Sisterhoods). 6. Free educational classes and a Library and Reading-room. 7. A Work-class, and Home-Classes in the quarters of the poor. All thes are for the benefit of women. The Society has three branches, one at Poons and another at Ahmedabad, and a third at Bangalore. The expenditure annually incurred is about Rs. 20,000. Secretary, Miss B. A. Engineer, M.A., LL.B., President, Mrs. Ramabai Ranade; President, Ahmedabad Branch, Lady Chinubhai Madhavlal, President, Poona Branch, Mrs. Ranade. Treasurers, Sister Sushilabai and the Hob'ble Mr. Lalubhai Samaldas. Trustees, Sir Narayan Chandavarkar, Sir Bhalchandra Krishna, Sir V. D. Thackersey.

CONSUMPTIVES' HOME SOCIETY.—This Society was started by the late Mr. B. M. Malabari on the 1st of June 1909. It was registered under Act XXI of 1860. It is an off-shoot of the Seva Sadan. Mr. Malabari secured a large grant of land in a Himalayan pine forest in Dharmpur (Simla Hüls) from H. H. the Maharaja of Patiala, for a Sanitorium for Consumptives. The Sanitorium for Consumptives. The Sanitorium was started on June 1, 1909, and has been in existence ever since. Mr. Malabari collected an Endowment Fund of about Rs. 67,000 lodged with the Treasurer, Charitable Endowments, under Act VI of 1890. Nearly Rs. 70,000 more have been spent on buildings, etc., and the current annual expenditure is about Rs. 14,000. Dr. Nanavati, L.M. & S., and B.Sc., is in charge of the Sanitorium.

THE ROYAL SOCIETY OF ARTS, INDIAN SNOTION.—This Society was founded in London in the 18th Century. Its recently published history by Sir Henry Trueman Wood, Secretary of the Society, gives the following account of the Indian Section. In 1857, a proposition was made by Mr. Hyde Clarke who wrote to the Council suggesting that "a special section be formed for India, another for Australia, one for English America and so on." It was suggested that the Indian Section should meet once a fortnight for the reading of papers. Nothing came of the suggestion until ten years later when Mr. Hyde Clarke returned to England, and in 1868 he renewed his proposal, but only proposing the formation of a committee which should organise conferences on Indian subjects. This time the suggestion was taken up more warmly. Mr. Hyde Clark himself was placed on the Council, and the Indian Conferences. which soon developed into the Indian Section thus established became a most important department of the Society. It has had great results in India by spreading information as to the directions which the development of Indian manufactures and Indian products could most usefully take, and in England by giving similar information as to the industrial resources and progress of India itself. The Section has received great help from the Indian press and it has in return been of service to the Indian press in supplying useful information to it. It has been of great value to the Society itself as the means by which many members have been added to its list, so that in fact, thanks to a very large extent to the work of the Indians precoved free the means by which many members are the colonies, a large proportion of the prescut number of members come from the dependencies of the Empire abroad." Sec-

retary Sir H. T. Wood, 18 John Street, Adelphi, London.

THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION IN INDIA, BURMA AND CEYLON.—This was started in India in an organized and National way in 1896. The aim of the Association is to meet the needs of the girls and women who live in India from an Intellectual, Spiritual, Social and Physical standpoint. This is done in many ways in the 160 Associations that now flourish under the auspices of the National Young Women's Christian Associa-tion. The Associations in the big cities have a large membership and include all classes of the community. Clubs, Classes, Lectures, Study Courses, Music, Languages, Bible and Mission Study, social intercourse and all kinds of physical recreation are carried on as need arises in these City Associations. Boarding Homes are established in all the principal cities where teachers, nurses, business girls, students, apprentices, etc., can have a comfortable home with good, wholesome food and congenial companionship for Rs. 20 or Rs. 30 per month. Travellers' Ald work is done and many travellers, especially in the port cities, find accommodation as they pass through. A useful feature of the Association is the Holiday Homes that are conducted in the hills, where girls from the plains can find inexpensive accommodation and regain health and strength. Some of the homes accommodate as many as thirty-six at one time and hundreds benefit during the season. The work of the Association in the large cities is managed by a staff of professional Y. W. C. A. Secretaries, who are fully trained and equipped to meet the many demands that are made on them. These Secretaries are supplied from America, Britain, Australia and India.

Many of the Associations are in small up country stations where a handful of members constitute the Branch, led by some lady in the station who is glad of this opportunity for service. The members of these small stations may be transferred, in the ever-changing life of India, into the largeicities and then they learn in a fuller way what the Association can do to help them in an all round development. The National Headquarters are in Bombay where the greater part of the National Committee is stationed. The interdenominational character of the Association is clearly kept in the forefront and ladies of many Christian denominations are on the Committee. The National Committee consists of twenty-five members, resident and non-resident, representative of Student and City Department in various sections of the country.

The Officers are: Acting President Mrs. Klosz; Vice-Presidents Mrs. E. J. Palmer, Mrs. R. M. Gray, Miss A. M. R. Dobson; Hon. Treasurer, F. J. Clark; Acting National General Secretary, Miss Florence B. Lang. The General Secretaries of the principal places are: Bombay, Miss Wealdon; Calcutta, Miss Rutherford; Colombo, Miss Taylor; Rangoon, Miss Hughes; Madras, Miss Mather; Bangalore, "Secretary"; Karachi, Miss O'Brian; Lahore, Miss Shields; Mussorie, Miss Gregory, Simla, "Secretary"; Allahabad, "Secretary" Lucknow. Miss. Davics.

The National Office is in the British Foreign and Bible Society Building, Hornby Road,

The Official Organ of the Association is "The Young Women of India," which has a circulation of over 2,000 copies monthly. THE YOUNG MEN'S CHRISTIAN ASSOCIATION.

This Association, which was founded by the late Sir George Williams on June 6, 1844, seeks to unite those young men who, regarding Jesus Christ as their God and Saviour according to the Holy Scriptures, desire to be His disciples, in their doctrine and in their life, and to associate their efforts for the extension of His kingdom among young men. The above is known as the "Paris Basis" of the Young Men's Christian Associations and it is world-wide. It was adopted at the first World's Convention in Paris in 1855 and re-affirmed at the Jubilee World's Convention in Paris in 1905. The aim of the Association is through its religious, educational, and physical work to cater for the threefold—spiritual, mental and physical needs of young men, and its policy is one of intense loyalty to the Church.

There are, as a rule, two classes of members Any young man who is a member in full communion of any Protestant Christian Church may be an active or voting member and any young man of good character may

be an associate.

Flourishing Associations have been formed in Bombay and Rangoon under the auspices of the English National Council, of which Lord Kinnaird is President, and in Calcutta and in nearly every other important centre in India under the auspices of the International Committee of Y. M. C. A. of North America. The International Committee appoints secretaries to the National Council, Y. M. C. A., India and Ceylon, which is composed of members appointed triennially from the local associations.

The headquarters of the National Council are in Calcutta at 86, College Street. The following is a list of its present members and

secretaries :-

Patron, His Excellency the Viceroy, Lord Hardinge of Penshurst.

Advisory Members, Sir Robert Laidlaw, Kt., London; G. B. McNair, Esq., Cal-cutta; and E. R. Wood, Esq., Toronto. Raja Sir Hamam Singh, E.O.I.E., Chair-

W. R. Gourlay, Esq., 1.C.S., Treasurer.

Rev. C. F. Andrews, M.A.

C. G. Arthur, Esq.

A. H. S. Aston, Esq., M.A.

Rev. V. S. Azariah, Bishop of Dornakal.

J. R. Banerjea, Esq., M.A., B.L.

Sir Henry P. Burt, K.C.I.E.

Brig.-Genl. F. G. Bond, C.B. Rev. J. R. Chitamber, B.A.

Rev. Alden H. Clark, M.A.

Rev. W. M. Zumbro, M.A.

F. J. Clark, Esq., J. P.

W. A. Cole, Esq.

Dr. S. K. Datta, B.A.

J. C. Dutt, Esq., M.A., B.L. A. G. Fraser, Esq., M.A. The Hon'ble Mr. F. C. Gates, C.S.1 E. S. Hensman, Esq. J. C Jansz, Esq. H. H. Mann, Esq., D.S.C. The Hon'ble Mr. R. G. Monteath. Dr. T. Naravan Swami. Col. G. W. Palin, C.I.E.

Sir Henry E. E. Procter, Kt. J. H. Simpson, Esq., C.I.E., I.C.S.

The Hon'ble Mr. F. H. Stewart, M.A., C.I.E.

SECRETARIES.

E. C. Carter, B.A. A. C. Harte, B.A. General Secretaries. K. T. Paul, B.A.

J. N. Farquhar, M.A., Literary.

F. C. Freeman, Railway.

F. V. Slack, Student.

J. H. Gray, M.D., Physical.

J. Callan, Army.

D. W. Peterson. Business.

B. C. Sircar, M.A., Bengal,

II. W. White, B.A., Tanjore-Palamcottah.

M. G. Brooks, Ceylon.

O. H. McCowen, LL.B., Burma.

John Devadas, Tinnevelly District.

J. R. Isaac, B.A., H. Schools.

H. Glunkler, Architect.

M. R. Shelton, Railway.

M. G. Brooks, Ceylon.

H. Kuhner, Malabar.

I. Jacobi, Malabar.

H. Schaetti, Architect.

L. A. Dixon, M. A., Travancore.

Of the local associations Bombay is said to possess the finest Association Building in the East and, owing to the generosity of the public, of Government, and of friends in the United States and Great Britain, it will shortly be the best equipped Asso-ciation as well. Its President is M. D. M. Inglis, Mr. L. G. Granns, the General Secretary, resides at the Central Branch in Wodehouse Road. Mr. Frank Anderson, M.A., J.P. (on furlough) and Mr. T. R. Ponsford are the secretaries of the Student Branch ard the secretaries of the South State at Girgaum. Mr. D. Munro who has been trained in America is the Physical Director, Mr. G. S. Canara, the Secretary of the Byculla or Indian Christian Branch. Owing to the or Indian Christian Branch. Owing to the death of the late Mr. W. Blackford the post of Superintendent of the Mazagaon Branch with its Apprentices' Institute is at present value. with 16 Apprentices insulative is at present va-cant. Apart from its religious activity, the Bombay Y. M. C. A. provides at moderate rates board and residence for about 50 young men. Two public tournaments, viz., the Elton Hockey Tournament, and the Condor Tennis Tournament are held annually under its auspices.

TABLE OF WAGES, INCOME, &c.

Showing the amount for one or more days at the rates of 1 to 16 Rupees per Month of 31 Days.

Rupees.	1		2		8		4		5		в	7	,	8	,	9			10		11			12		18		14			15		16	
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PRINCIPAL CLUBS IN INDIA.

	j :		Sul	bscrip	tion.	
Name of Club.	Esta- blished.	Club-house.	Ent.	An- nual	Mon- thly.	Secretary.
,			Rs.	Rs.	Rs.	
ABBOTTABAD		Abbottabad N. W. F. Pro.	16		10	Capt. P. M. Rennie.
ADYAR AGRA	1890 1863	Madras Agra Cantonment	75 50	12	4 7	F. Buckney. Capt. Snowdon, R. A
AHMEDNAGAR	1889	•••••	32		10	Maj. W. Cortland Anderson.
AJJAL	1893	Lushai Hills E. B. and Assam.	32		10	LtCol. G.H. Loch.
Ajmere	1883	Quaiser Bagh	50		15	W. E. Shipp.
AKOLA ALLAHABAD	1870 1868	Berar	100 100	::	. 9 9	H. C. Greenfield. Capt. G. M. Routh, R
AMRAOTI	••	•••••	100		7	W. J. M. Peeble.
Amritsar Bangalore United Service.	1894 1868	Amritsar 38, Residency Road	20 100	iż	7 7	A. Mackay. Major E. Tennant.
BAREILLY	1883	Municipal Gardens	32		9	Capt. W. F. M Loughman.
BARISAL BARRACKPUR	1864 1850	Backerganj, Barisal Grant Trunk Road, 8,	25 48	::	12 10	G. H. W. Davies. Major G. D. L. Chat terton.
Bassein	1881	River Side. Fytche Street, 50 , Bas- sein, Burma.	50		10	Comdr. A. Hamilton.
BELGAUM BENARES	1884	Close to Race Course	50 20		10 14	Major H.M. Thomas. Wilmot C. Dover
BENGAL	1827	33, Chowringhee Road, Calcutta.	800	15	13	Col. W. Weallens.
BENGAL UNITED SER- VICE.	1 1	29, Chowringhee Rd	150	18		C. A. Mackenzie.
BOMBAY BURMA	1862 1885	Rampart Row Merchant Street, Ran-	. 50	::		G. Gilchrist. T. G. Miller.
BYCULLA CALCUTTA		goon. Bellasis Rd., Bombay 13, Russell Street	200 100	12	10	W. P. Pechey. D. Lindsay & Si Rajendra Nati
CALCUTTA TURF	1861	49, Theatre Road	150 50	25		Mookerjee. J. Hutcheson.
CAWNPORE	1891	Cawnpore Dalhousie, Punjab	50		14	J. Esplin. Capt. H. R. Hoods.
CHITTAGONG	1 3	Pioneer Hill, Chitta- gong.	50		10	Comdr. E. Gray Mills, R. I. M.
CLUB OF CENTRAL INDIA.	1885	Mhow	50		1	Major Charles T Lamman.
LUB OF WESTERN INDIA.	1865	Elphinstone Road, Poons.	200	••	- 1	Vacant.
COCHIN	1876 1867 1868	Coconada	50 70 50	::	10	Frederic A. Cox. L. H. Deane. E. M. Moss.
COONOOB	1894	Coonoor, Nilgiris	50	12	4	W. Souttar.
Dacca Darjerling	1864 1868	Dacca Auckland Road	50 70	::	7	F. M. Timme.
Delhi	1898	Ludlow Castle, Delhi.	82		10	W. Souttar. Capt. P. L. Ingpen. F. M. Timme. LtCol. D. M. Davidson, I. M. S.
Himalaya Jhansi	1841 1887	Mussoorie Next to Public Gar- dens. Jhansi.	100 50	12	9-8	R. S. Wahab. Major W. Hallaran, B. A. M. C.

	Esta-		Sub	script	ion.	Q		
Name of Club.	blished.	Club-house.	Ent.	An- nual	Mon- thly.	Secretary.		
			Rs.	Rs.	Rs.			
MADRAS	1831	Mount Road, Madras.	250	92	10	Captain W. B. T.		
MALABAR MAYMYO MOOLTAN NAINI TAL OCTACAMUND	1901 1892 1864	Beach Road, Calleut Mooltan Ootacamund, Nilgiri Hills.	50 100 30 100 150	12 12 i2	6 10 12 5 5	W. O. Wright. Major F. Morris. Capt. C. B. Penton. Capt. J. O. Nelson. C. A. Mackenzie.		
ORIENT	1871	Chaupatty, Bombay Prome Rd., Rangoon. Peshawar	150 150 32	iż 	io i	Dossabhai Jehangir. Capt. B. Stephenson. Capt. I. M. Conway Poole.		
PUNJAB QUETTA	1879 1879	Upper Mall, Lahore Quetta	150 60	::	12 15	A. R. Ross Redding. Capt. B. Leicester.		
BAJPUTANA BOYAL BOMBAY YACHT.	1880 1880	Mount Abu	50 200	48 12	8 7	Maj. M. P. Corkery. Col. R. A. Carruthers, C.B.		
SATURDAY SECUNDERABAD SHILLONG	1883	7, Wood St., Calcutta. Secunderabad, Deccan Northbrook Road, Shillong.	i00 50	::	 8 12	G. Hervey. W. C. Clark. C. H. Holder.		
SIALKOT		Sialkot, Punjab	32		6	Capt. G. S. Rivett-		
SIND TRICHINOPOLY TUTICORIN	1869	Karachi Cantonment Tuticorin	200 50 50	12	6 6 8	J. Humphrey. C. McC. Conway. H. S. Northey.		
United Service Club, United Service Club, Lucknow.	1866 1861	Simla Chutter Manzil Palace	200 50	::	*8	Capt. L. R. Vaughan Major S. D'A. Crook- shank, R. E.		
UPPER BURMA WESTERN INDIA TURE WHEELER		PortDufferin, Mandalay Bombay and Poona The Mall, Meerut	50 50 50	20 	₉	E. D. Haffender, Maj. J. E. Hughes. Maj. R. Burton.		

The Church in India.

In the ordinary acceptance of the term, there is no established Church in India. An Ecclesiastical Establishment is maintained for providing religious ministrations, primarily to British troops, secondarily to the European civil officials of Government and their families. Seven out of the eleven Anglican Bishops in India are officers of the Establishment, though their episcopal jurisdiction far transcends the limits of the Ecclesiastical Establishment. The stipends of the three Presidency Bishops are paid entirely by Government, and they hold an official status which is clearly defined. The Bishops of Lahore, Lucknow, Nagpur and Rangoon draw from Government the stipends of Senior Chaplains only but their episcopal rank and territorial titles are officially recognised. The Bishops of Chota Nagpur, Tinnevelly, Madura, Travancore, Cochin and Dornakal are not on the establishment. A new Bishopric of Assam is soon to be created. In its relations with Government it will be regarded as subordinate to the sec of Calcutta. But the maintenance of the Bishopric will be metentially from voluntary funds.

The ecclesiastical establishment includes four denominations—Anglican, Presbyterian, Roman and Wesleyan. Of these, the first two enjoy a distinctive position, in that the Chaplains of those denominations (and in the case of the first-named the Bishops) are individually appointed by the Secretary of State and rank as gazetted officers of Government. Throughout the Indian Empire there are 134 Anglican and 11 Presbyterian chaplains whose appointments have been confirmed. The authorities in India of the Roman Catholic receive block-grants from Government for the provision of clergy to minister to troops and others belonging to their respective denominations. The Wesleyan Mcthodist Church has a staff of military chaplains in India who receive afixed salary from Government and 25 chaplains working on a capitation basis of payment by Government. Churches of all four denominations, may be built, furnished and repaired, wholly or partly at Government expense.

In the Anglican communion the Government

In the Anghean communion the Government has been hitherto of the nature of an episcopal autocracy, tempered by a large deference to the wishes of Government in one direction and the counsels of missionary societies in another. A movement towards Synodical Government on an elective basis is now well advanced. It is felt that the interests of the large and growing body of native converts demand a substantial measure of autonomy. Certain legal difficulties arising out of the relations of the Indian Bishoprics with Canterbury and the Crown will have to be overcome before a full Synodical system can be established. In the meantime it is proposed, as a preliminary measure, to set up Diocesan Councils to assist the Bishops, as far as possible, in the administrative side of their work.

So far as the European and Anglo-Indian of Christian communities are concerned the activities of now close the Church are not confined to public worship bably exceed and pastoral functions. The education of the moment, as children of those communities is very largely Census Repuin the hands of the Christian denominations. during the There are a few institutions such as the La per annum.

Marticiere Schools, on a non-denominational basis; but they are exceptional. In all the large centres there exist schools of various grades as well as orphanages, for the education of Europeans and Angio-Indians under the control of various Christian bodies. The Roman Catholic Church is honourably distinguished by much activity and financial generosity in this respect. Her schools are to be found throughout the length and breadth of the Indian Empire; and they maintain a high standard of efficiency. The Anglican Church comes next, and the American Methodists have established some excellent schools in the larger hill-stations. The Presbyterians are also well-represented in this field, particularly by the admirable institution for destituse children at Kalimpong, near Darjeeling. Schools of all denominations receive liberal grants-in-aid from Government, and are regularly inspected by the Education Departments of the various provinces. Thanks to the free operation of the denominational principle and its frank recognition by Government, there is no "religious difficulty" in the schools of the European and Anglo-Indian communities.

Christian Missions.

The tradition that St. Thomas, the Apostle, was the first Christian missionary in India is by no means improbable. History, however, carries us no further back than the sixth century, when a community of Christians is known to have existed in Malabar. Since then the so-called Syrian Church in south-west India has had a continuous life. Except in its infancy this Church (or rather these Churches, for the Syrian Christians are now divided into four communions) has displayed little of the missionary spirit until quite recent times. Western Christianity was first introduced into India by the Portuguese, who established their hierarchy throughout their sphere of influence, Goa being the metropolitical see of the Indies. St. Francis Xavier, a Spaniard by race, took full advantage of the Portuguese power in Western India to carry on his Christian propaganda. His almost super-luman zeal was rewarded with much success, but many of the fruits of his labour were lost with the shrinkage of the Portuguese Empire. It is really to the work of the missionaries of the Propaganda in the 17th century that the Propaganda in the 17th century that the Propaganda of the Propagande in the 18th century that the Propaganda of the More of the Missionaries of the Propaganda in the 18th century that the Propaganda of the Syrian illurigy, are of the Roman obedience) is 315,612, as against 248,741 in 1901. Protestant Christians (that term throughout this article include Anglicans) number 1,036,731, an increase of Christians of all denominations in India is now close on four nillions. In fact it probably exceeds that figure at the present moment, as these statistics are taken from the Census Report of 1911, and the rate of increase during the previous decade was nearly 100,009 per annum.

something over 100 years, and the statistical results of their efforts are given above. It is now, however, generally recognised that Christian missions are producing indirect effects in India which lend themselves only incompletely to any sort of tabulation. The main agency of this more diffusive influence of Christianity is the missionary school and college. The Protestant missions fill a considerable part in the elementary education of the country. According to the Year Book of Missions in India, 1912, they are teaching 446,000 children in 13,204 elementary schools, mostly situated in villages. This represents one-ninth of the total of elementary schools and scholars throughout the Empire. The majority of children in these schools are non-Christians. The same is true also of the high schools and in a still greater degree of the colleges. The former number 283 with 62,600 male and 8,400 female pupils. There are 38 colleges affiliated to Universities, containing 5,488 male and 61 female students. Of these as many as 5,241 are non-Christians. From the standpoint of missionary policy much importance is attached to these agencies for the indirect propagation of the Christian faith. The propagation of the consistant faith. The statesman and the publicist are chiefly inter-ested in the excellent moral effect produced by these institutions amongst the educated classes, and the higher educational ideals omeses, and one inguer curcarona accase maintained by their staffs. The principal University colleges under Protestant auspices are the Madras Christian College; the Duff College, Calcutta; the Wilson College, Bombay; conlege, Calcutta; the wilson conlege, Bomnay; and the Foreman College, Lahore. All these are maintained by Presbyterian societies, either British or American. The Roman Catholics have a large number of educational institutions, ranging from small village schools to great colleges preparing students for University degrees. But the proportion of Christian students in their institutions is very much larger than in those of the Protestant bodies. The proportion of literates amongst native Roman Catholics is probably lower than amongst the Protestant converts; but compared with Hindus and Mahomedans it is conspicuously higher. The Roman Catholics have some 3,000 elementary schools in which 98.000 boys and 41,000 girls are receiving instruction. In middle and high schools they have 143,000 boys and 43,000 girls and in University colleges about 5,000 students of both exces. These figures, however, include a large proportion of Europeans and Eurasians, who are an almost negligible quantity in Protestant larger than in those of the Protestant bodies. are an almost negligible quantity in Protestant mission schools and colleges.

More recent, but producing even more widespread results, is the Philanthropic work of Christian missions. Before the great famine of 1878, missionaries confined themselves almost exclusively to evangelistic and edu-cational activity. The famine threw crowds of destitute people and orphan children upon

The Protestant Churches made no serious stimulus was also given to medical missions attempt to evangelise India till the beginning Hospitals and dispensaries have sprung up in of the nineteenth century. They have thus all parts of the mission field; and leper asylums been at work in the Indian mission field for are almost a monopoly of Unristian missionary effort. In 1911 the total number of medical missionaries working under Protestant socie-ties in India was 118 men and 217 women, the ties in India was 118 men and 217 women, the majority of the former being also ordained ministers of religion. There are 184 industrial institutions in which 59 different arts and crafts are taught, ranging from agriculture to type-writing. In this department the Salvation Army hold a prominent place; and the confidence of Government in their methods has been shown by their being officially entrusted with the difficult work of winning over certain craminal tribes to a life of industry. over certain criminal tribes to a life of industry. The indirect effect of all this philanthropic activity under missionary auspices has been most marked. It has awakened the social conscience of the non-Christian public, and such movements as "The Servants of India" and the mission to the Depressed Classes are merely the outward and visible sign of a great stirring of the philanthropy spirit far beyond the sphere of Christian missionary operations.

Anglican Missionary Societies.

The Church Missionary Society carries on work in India in seven different missions—the United Provinces, South India, Travancore and Cochin, Bengal, Western India, Punjab and Sind and the Central Provinces and Rajputana. The names are in order of seniority. Work was begun in what are now called the United Provinces in 1813, in the Punjab in 1851, and in the Central Provinces in 1854. The Society has always kept Evangelistic work well to the fore; but it also has important medical missions, especially on the N.-W. Frontier, and many schools of the Primary, Middle and High stan-dards. The Church of England Zenana Mis-sionary Society is an offshoot of the C. M. S. controlling the work of 162 missionary ladies. The number of ordained European missionaries of the C. M. S. in India is 166, European laymen 64 and European lay-women 271. The Society claims a Christian community of 1,85,000 of whom 52,000 are adult communicants.

Society for the propagation of the Gospel-Statistics of the work of this Society are not easily ascertained, as much of it is done through Diocesan institutions, which, while financed and in many cases manned by the S. P. G., are entirely controlled by the Diocesan authorities. The best known of the S. P. G. missions is that at Delhi, commonly called the Cambridge Mission to Delhi, carrying on educational work at St. Stephen's College and School. Missions to the depressed classes exist in Burma, in the Ahmednagar District and in several parts of South India, especially in the Diocese of Tinnevelly-Madura. There are 1,16,000 Indian Christians under the ægis of the S. P. G.; 90 ordained European missionaries and 98 European lady workers.

Other Anglican Societies.—The Oxford Mission to Calcutta was started in 1880. It of destitute people and orphan children upon blission to Calcutta was started in 1880. It their hands. Orphanages and industrial works in the poorest parts of Calcutta and also schools became an urgent necessity. But at Barisal. There are 10 mission-priests of the philanthropic spirit is never satisfied with this Society, 4 laymen, and 11 laywomen. In one kind of organisation or method. A great addition to its work amongst the poor, the Epiphany, which is known all over India.

The Society of St. John the Evangelist (commonly known as the Cowley Fathers) has houses at Bombay and Poona, and small stations in the

Oxford Mission addresses itself to the educated from the very poorest classes of the Bombay classes in Bengal and issues a periodical called population. At Poona the Society co-operates with the Wantage Sisters and in Bombay with the All-Saints Sisters. Other Anglican sister-hoods represented in India are the Clewer Sisters at Calcutta and the Sisters of the Church

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Bombay Konkan. In Bombay its missionary (Kilburn) at Bangalore, The St. Hilda's work centres round the Church of Holy Cross, Deaconesses' Association of Lahore carries on Important educational work (chiefly amongst dispensary. The Christians are chiefly drawn the domiciled community) in the Punjab.
                            Bengal Ecclesiastical Department.
Lefrov. Most Reverend George Alfred. D.D.
                                                         .. Lord Bishop of Calcutta and Metropolitan
                                                            of India.
                                               SENIOR CHAPLAINS.
Macdonald, Rev. James Middleton, M.A.
                                                     .. Services transferred to Puniab.
Wickins, Ven'ble Canon William John, M.A.
                                                      .. Archdeacon of Calcutta.
.. Services transferred to Punjab.
                                                     .. Fort William and Military Hospital. Calcutta.
                                               . .
                                                     .. rore windam and windary mospical, Calcutta.
. St. Paul's Cathedral, Calcutta.
. St. James, Calcutta.
. Officiating Archdeacon and Chaplain, St.
                                              . .
                                              ..
                                                           John's Church, Calcutta.
                                                      .. St. Thomas', Calcutta.
Stokoe, Rev. Cecil George, M.A.
                                       And 13 Junior Chaplains.
                               CHAPLAINS OF THE CHURCH OF SCOTLAND.
Chree, Rev. George Johnstone, B.D. . .
                                                      .. Presidency Senior Chaplain, St. Andrew's,
                                                            Calcutta. On combined leave.
Gillan, Rev. D. H.
Dodd. Rev. G. E.
                                                         Officiating.
                                                      .. Officiating Second Chaplain, St. Andrew's.
                                                           Calcutta.
                                    CHAPLAINS OF THE CHURCH OF ROME.
                                                      .. Archbishop.
Meuleman, The Most Reverend Dr. Brice. S.J.
                                                     .. Officiating Administrator of the Arch-
Marchal, Rev. Fr. V., S.J.
                                                      diocese.
.. Chaplain, Presidency Jail.
Carbery, Rev. Fr. Stanislaus, S.J. ..
                           Rombay Ecclesiastical Department.
Palmer, Right Reverend Edwin James, M.A.
                                                      .. Lord Bishop of Bombay.
                                                      .. Archdeacon of Bombay and Bishop's Commissary.
Barham, Rev. C. M., M.A.
                                                      .. Registrar of the Diocese.
Bowen, John Cuthbert Grenside
Coles, Rev. A. H.
Coles, Rev. A. H. ...
Heywood, Rev. R. S. ...
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Joshi, Rev. D. L.
King, Rev. C.
Rivington, Rev. C. S. . .
                                                          Honorary Canons of Bombay Cathedral.
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                                                      ..
                                            SENIOR CHAPLAINS.
Courtice, Rev. George Robert Aulton, M.A., B.SO .. On furlough.
                                      .. .. Camp, Aden.
.. Ahmedabad.
deCoetiogon, Rev. Charles Evelyn Cambridge, M.A. Colaba.
Kennelly, Ven'ble W. J. M., B.A. Byculla.
Kennelly, Ven'ble W. J. M., B.A.
Mould, Rev. Horace
                                                      .. Mount Abu.
                                       And 17 Junior Chaplains.
                              CHAPLAINS OF THE CHURCH OF SCOTLAND.
                                                      .. Acting Senior Presidency Chaplain.
 Matthew, Rev. John Crombie, M.A., B.D.
                                               ..
                                             And 3 Junior Chaplains.
                                 CHAPLAINS OF THE CHURCH OF ROME.
                                              .. Presidency.
 Jurgens, The Very Rev. H. ..
                                       ..
                           Madras Ecclesiastical Department.
                                                      .. Lord Bishop of Madras.
 Whitehead, Right Reverend Henry, D.D. ..
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.. Archdeacon and Commissary and Domestic Cox, Ven'ble Lionel Edgar, M.A. .. • • Chaplain to the Lord Bishop. .. Registrar of the Diocese and Secretary Rowlandson, Frederic, B.A., LL.B. .. to the Lord Bishop.

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SENIOR CHAPLAINS.
Breay, Rev. Christopher Francis, M.A. Bull, Rev. Edmund
                                                    .. Vellore.
                                                    .. St. Thomas' Mount.
..
                                       And 24 Junior Chaplains.
                                        CHURCH OF SCOTLAND.

    Presidency Senior Chaplain, St. Andrew s
Church, Madras. On combined leave.
    St. Andrew's Church, Madras.
    St. Andrew's Church, Bangalore.

Heron, Rev. John, M.A., B.D. ..
Meldrum, Rev. Neil, M. A., B. D.
Phillip, Rev. James Gibson . . . . . Mitchell, Rev. James Donald, M.A., B.D.
                                                    .. St. Andrew's Church, Secunderabad.
                           Assam Ecclesiastical Department.
                                                    .. Shillong.
Dver. Rev. Basil Saunders, B.A.
Orpwood, Rev. H., M.A.
Jourdain, Rev. R. T., M.A.
                                                    .. Sibsagar.
                                             . .
                                                    .. Silchar.
                   Bihar and Orissa Ecclesiastical Department.
                                             JUNIOR CHAPLAINS.
Birch, Rev. Ormonde Winstanley
                                                    .. Dinapore.
Taylor, Rev. John Frederic Oddin, B.A. Cullen, Rev. John Armstrong.
                                                    .. Cuttack.
                                             . .
                                                    .. Bhagalpur.
Green, Canon Arthur Daniel ...
                                                    .. Monghyr and Jamalpur.
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Payne, Rev. Russell, M.A.
                                                    .. Muzaffarpur.
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Cosgrave, Canon W. F.
                                                    .. Ranchi. .. Bankipore.
Moore, Rev. H. M.
                                      . .
                           Burma Ecclesiastical Department.
.. Archdeacon and Bishop's Commissary.
                                            SENIOR CHAPLAINS.
Blandford, Rev. Henry Weare , B.A. . .
                                                    .. Shwebo.
Collins, Rev. James Henry ...
                                                    .. Dagshai.
.. Mandalay.
Seeley, Rev. George Henry
                                          And 7 Junior Chaplains.
                   Central Provinces Ecclesiastical Department.
 Chatterton, Right Reverend E., D.D.
Price, Ven'ble C., M.A.
                                                    .. Lord Bishop of Nagpur.
                                                    .. Archdeacon, Nagpur.
                                             SENIOR CHAPLAINS.
 Darling, Rev. C. W., M.A. ...
Anstey, Rev. H. C. S., M.A. ...
                                                    .. Jubbulpore.
                                                    .. Neemuch.
                                         And 14 Junior Chaplains.
                 North-West Frontier Ecclesiastical Department.
                                            SENIOR CHAPLAIN.
 Stewart, Rev. C., B. A.
                                                   .. Nowshera.
                                          And 4 Junior Chaplains.
                           Punjab Ecclesiastical Department.
 Durrant, Right Reverend H. B., M.A., D.D.
 Warlow, The Ven'ble Edmund John, M.A. ..
                                                    .. Lord Bishop of Puniab, Lahore.
                                                    .. Archdeacon.
                                                  SENIOR CHAPLAINS.
MacDonald, Rev. J. M., M.A.
Parry, Rev. John Horndon, M.A.
                                                    .. Subathn.
Naish, Rev. Henry
                                                    .. West Ridge, Rawalpindi.
.. On combined leave.
Becker, Rev. Charles Maxwell, M.A.
Syme, Rev. James Greensill Skottowe, M.A.
                                             ٠.
                                                    .. Amballa.
Symbol Rev. Johns Alfred Rowland, M.A. Stanley, Rev. Albert Edward, M.A. Musprott, Rev. Walter, M.A.
                                                    .. Simla.
                                                    .. Kashmir
                                                    .. Juliunder.
Stewart, Rev. Charles, B.A.
                                                    .. Murree Galis,
                                                    .. Nowshera.
                                       And 19 Junior Chaplains.
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United Provinces Ecclesiastical Department.

Wescott, The Right Reverend George Herbert .. Lord Bishop of Lucknow.

.. Archdeacon of Lucknow.

. Registrar of the Diocese of Lucknow.

Klugh, Rev. Leonard Kirwan, Rev. Robert Mansel, M.A.

SENIOR CHAPLAINS. .. On combined leave. .. Bareilly.

Shaw, Rev. Walter Lilley Pritchatt, M.A. ٠.

Menzies, Rev. Henry, M.A.

.. Landour. .. Fyzabad .. Lucknow (Civil). .. Chan Cattia. .. Mussoorie.

And 16 Junior Chaplains, with 7 Additional Clergy.

CHURCH OF SCOTLAND.

Two Junior Chaplains.

THE ROMAN CATHOLIC CHURCH.

With regard to numbers, the Catholic Directory of India, 1913, gives the following discrepant tables :-

			Civil Census 1911.	Ecclesiastical Estimate.
D 141-1- T- 31-	Latin rite		1,430,582	1,535,820
British India	Syriac rite		413,142	364,660
<i>Total, Brit</i> Burma Ceylon	ish India and Prot. States		1,843,724 60,282 339,300	1,900,480 88,447 322,163
Total, Indi	a, Burma, and Ceylon		2,243,306	2,311,090
French India Portuguese Ind	ia	::		25,918 296,148
	Ecclesiastical Grand Tot	tal		2,663,156*

^{*} After trying to rectify discrepancies the Directory fixes as probable the following numbers :-European and Eurasian Catholics 114.512 2,423,286 Baptised Native Catholics

.. 2,537.798 Total

(1) The "Syrian" Christians of the Malabar Coast, traditionally said to have been converted by the Apostle St. Thomas. converted by the Apostie St. Thomas. They were brought under allegiance to the Pope by the Portuguese in 1599, and placed first under Jesuit bishops and then under Carmelite Vicars Apostolic. They are at present ruled by four Vicars Apostolic of their own Syriac rite.

2) Converts of the Portuguese missionaries from 1500 and onwards, starting from Goa and working in the south of the peninsula and up the west coast and in Ceylon.

(3) European immigrants at all times, including British troops.

and (4) Modern converts from Hinduism Animism in recent mission centres.

which it began to decline. To meet this decline fresh missionaries were sent out by the Congregation de propaganda fide, till by the middle of the 19th century the whole country was divided out among them except such portions as were occupied by the Goa clergy. Hence arose a conflict of furisdiction in many parts between the Portuguese clergy of the "padroado" or royal patronage, and the propaganda clergy. This confilet was set at rest by the Concordat of 1886. At the same time the whole country was placed under a regular hierarchy, which after subsequent adjustments now stands as follows:—

Of the Portuguese Jurisdiction:

The archbishopric of Goa (having some extension into British territory) with suffra-

Note.—Recent changes modifying the above system are (1) The creation of a new archbishopric at Simia in 1910 to which Labore and, Kashmere are now attached as suffragan, (2) The addition of a fourth Vicariate Apostolic of the Syriac rite, (3) The elevation of Bajputans to a bishopric (of Ajmer), suffragan to Agra.

gan bishoprics at Cochin, Mylapore and Damaun (all three covering British territory).

Of the Propaganda Jurisdiction:--

The archbishopric of Agra with suffragan bishoprics of Allahabad and Rajputana and the Prefecture Apostolic of Bettiah.

The archbishopric of Bombay, with suffragan hishoprics of Poona. Mangalore and bishoprics of Poons. Trichinopoly.

The archbishopric of Calcutta, with suffragan bishoprics of Dacca and Krishnagar, and the Prefecture Apostolic of Assam.

The archbishopric of Madras, with suffragan bishoprics of Hyderabad, Vizagapatam and Nagpur.

The archbishopric of Pondicherry (French) with suffragan bishoprics of Mysore, Coimbatore and Kumbakonam.

The archbishopric of Simla with suffragan bishopric of Lahore and the Prefecture Apostolic of Kashmere.

The archbishopric of Colombo (Ceylon) with suffragan bishoprics at Kandy, Galle, Jaffna and Trincomalce.

The archbishopric of Verapoly, with suffragan bishopric of Quilon.

Four Vicariates Apostolic of the Syriac rite, for the Thomas Christians of Malabar. Three Vicariates Apostolic of Burma.

The European clergy engaged in India almost all belong to religious orders, congregations or mission seminaries, and with a few exceptions are either French, Belgian, Dutch, German, Spanish or Italian by nationality. They number about 1,000 besides which there is a body of secular clergy mostly native to the country, numbering about 2,000 and probably about 2,000 nuns. The first work of the clergy is parochial ministration to existing

Christians, including railway people and British troops. Second comes education, which is not confined to their own people; their schools being frequented by large numbers of Hindus, Mahomedans, Parsis, etc. Among the most important institutions arcSt.Xavier St. Audick Chapter 5. Patents College Arms 5. College, Calcutta, St. Peter's College, Agra, St. Xavier's College, Bombay, St. Joseph's College; Trichinopoly, St. Aloysius College, Mangalore, teaching university courses; besides a large number of high schools and elementary schools. The education of girls is supplied for by numerous convent schools worked by religious congregations of nuns to say nothing of orphanages and other charitable institutions. The total number under edu-cation amounted in 1904 to 143,051 boys and 73,164 girls, later figures being unavailable.

As to missionary work proper, the country is covered with numerous mission centres, among which those in Chota Nagpur, Gujerat, Orissa, the Nizam's Dominions, the Ahmed-nagar district and the Telugu coasts may be mentioned. (Full particulars on all points will be found in the Catholic Directory already quoted.) The mission work is limited solely by shortage of men and money, which if forthcoming would give the means to an indefinite extension. The resources of the clergy after the ordinary church collections and pay of a few military and railway chaplaincies pay or a rew ministry and railway chappainties are derived mainly from Europe, that is, from the collections of the Society for the Propagation of the Faith and of the Holy Childhood, helped out by private or other donations secured from home by the different local missionaries. In mission work the Cathern court sionaries. In mission work the fathers count as enrolled only those who are baptised and persevering as Christians, and no baptism, except for infants or at point of death, is administered except after careful instruction and probation. This, while keeping down the record, has the advantage of guaranteeing solid results.

THE SCOTTISH CHURCHES.

THE ESTABLISHED CAURCH OF SCOTLAND-The Chaptaincy work of the Church of Scotland dates from 1814, when the Rev. Dr. Bryce dates from tolk, when the act. It is landed in Calcutta, and organised a congregation of his Scottish fellow countrymen. Since 1903 there have been eighteen chaplains on the staff, of whom nine belong to the Bengal Presidency, five to Bombay, and four to Madras. These minister both to the Scottish troops and to the civil population of the towns where they are stationed, but when there is a Scot-tish regiment the chaplain is attached to the regiment, instead of being posted to the station where the regiment happens to be placed. There are churches in the chief towns of the Presidencies, and Churches have also been built, or are being built, in all considerable military stations, e.g., Chakrata, Lucknow, Peshawar, Ranikhet, Rawalpindi, Sialkot and Umballa. In addition to the regular establish-Peshawar, Ranikhet, Rawalpindi, Salkot and is being carried on from eight centres under Umballa. In addition to the regular establishment there are a number of acting Chaplains sent out by the Colonial Committee of the Church of Scotland and these are serving in such stations as Rawalpindi, Cawapore, Meerut, Himalayan district, and there is a Christian Mhow, and Quetta. In other places such as Slalkot, Murree, Dalhousie, Darjeeling and thousand. In the five mission districts of

Lahore regular services are provided by Scottish Missionaries. Simla has a minister of its own sent out from Scotland.

The Mission work of the Church of Scotland The Mission work of the Unified of Scutiand dates from 1829, when Alexander Duff, one of the greatest of modern missionaries, was sent to Calcutta. He was the first to open schools where English was made the medium for instruction, and where religious teaching was given daily. Similar educational missions was given daily. Similar educational missions were soon afterwards started in Bombay and Madras. Educational work is still an important branch of the mission work is still an Important branch of the mission work of the Church, but the Bombay College was closed in 1891, and in 1907 the College in Calcutta was united with the College of the United Free Church of Scotland, to form the "Calcutta Christian College," In the Punjab Evangelistic work is heing carried or from cieth carters under

Calcutta, the Eastern Himalayas, Madras, Poona, and the Punjab there were at the end rouns, and the runian there were at the end of 1911 over 17,500 baptised Indian Christians. In connection with these missions the Women's Association of Foreign Missions does invaluable service in school, medical and zenana work, having in India 47 European missionaries, 143 teachers, over 50 schools, three hospitals and six dispensaries.

The Established Church of Scotland has also done much to provide education for European children in India. Together with the United Free Church St. Andrews Church provides the governing body of the Bombay Scottish High Schools, which have always held a high institutions and excellent place among such institutions, and exercises pastoral supervision over the Bombay Scottish Orphanage. In Bangalore there is the St. Andrew's High School, and both in Bangalore and in Madras the local congregation supports a school for poor children. The now well-known St. Andrew's Colonial Homes at Kalimpong, Bengal, though not directly part of the work of the Church of Scotland, were initiated by and are being locally managed by Mission-aries of that Church. The homes exist for the benefit of the domiciled European Community, and are doing magnificent work. There are now fifteen cottages, and 437 children in residence.

THE UNITED FREE CHURCH OF SCOTLAND .-

every effort is made to minister to the Scottish engineers and other workers in the mills.

The Mission work of the Church is extended and varied. It is carried on in six centresin Bengal; in Santalia, with five stations; in Western India, including Bombay, Bombay district, Poona, and Jalna and Bethel in the Nizam's Dominions; in Madras, with four stations; in the Central Provinces, including Nagpur, Nagpur District, Bhandara, Wardha and Amraoti; and in Rajputana where since 1860 missions have been established in eleven

There are at work in these centres 212 Scotch missionaries, together with a native staff of 340. Of organised Indian congregations there are 39, comprising 4,521 communicant members, and representing a Christian community of 12,545. Of schools there are 324 with 756 teachers. A large part of this work is organised and supported by the women of the Church who have sent out as many as 84 of these miswho have sent out as many as 84 of these missionaries. In connection with the medical work of the mission there are 19 hospitals where in the year 448,931 out-patients and 4,540 in-patients are treated, all of whom are brought under Christian instruction. There are four great missionary Colleges. There is the Madras Christian College, with 800 students, which had the second the missionary whether the missionary colleges. which reached its great success under the wise leadership of the Rev. Dr. William Miller. and which is now contributed to by five other THE UNITED FREE CHURCH OF SCOTIAND.—

and which is now contributed to by five other this branch of the Scottish Church has only Missionary Societies as well as that of the two purely European congregations in India, United Free Church. Representatives of these one in Calcutta, Wellesley Square, and one in Bombay, Waudby Road. As noted above members of these congregations co-operate with the Established Church of Scotland in providing education for European children. In Calcutta a second congregation is maintained at Howrah in the district of the mills, and the Wilson College in Bombay with 791 students.

BAPTIST SOCIETIES.

THE ENGLISH BAPTIST MISSIONARY SOCIETY—formed in 1792, largely through the efforts of Dr. Wm. Carey, operates mainly in Bengal, Bihar, the United Provinces and the Panjab, with a staff of 79 missionaries and about 800 Indian workers. Connected with the Society are 167 Indian Churches, 222 Day Schools, 13 Boarding Schools, and 3 Theological Training Colleges. The Church membership at the close of 1912 stood at 11,009, and the Christian Community at 31,473. In the methods of the Society, the chief place is given to Bazaar and Village preaching. Increase in membership during the past ten years, about 30 per cent. and in the Community 50 per cent. for the same period. Amongst the non-caste people great progress has been made in recent years, and Churches formed from amongst these peoples are self-supporting.

Special work amongst students is carried on in Calcutta, Dacca, Bankipore, Cuttack and Delhi, where Hostels have been erected for the prosecution of this form of work.

EDUCATIONAL WORK.—Ranges from Primary School to Colleges. Scrampore College, the only College in India able to bestow a theo-clutches connected with the Society, but logical degree granted under Royal Charter English Services are carried on in many of the

by His Danish Majesty in 1827, and confirmed by the British Government in the Treaty of purchase of the Settlement of Serampore in 1845, and placed in 1856 by the College Council at the disposal of the Baptist Missionary Society to become a part of its Missionary Educational operations, Arts and Theological. It was affiliated in 1857 to the newly-formed Calcutta University: reorganised in 1910 on the lines of its original Foundations. tion with the appointment of a qualified Theological Staff on an Interdenominational basis for the granting of Theological Degrees to qualified students of all Churches.

As the only College in India granting a Theological Degree a large number of students are now resident in the splendid College Buildings. In Arts, the College prepares for the Calcutta Arts Examinations. *Principal*: Rev. G. Principal: Rev. G. Howells, M.A., B.D., B.LITT., PH. D.

A Vernacular Theological Institute, and High School likewise attaches to Serampore, as also at Delhi and Cuttack, for the training of native preachers.

stations where an European population obtains. Medical Work connected with the Society reported 2 Hospitals, 7 Dispensaries, 401 in patients, and 73,645 out-patients for the year 1912. Two large Printing Presses for both English and Vernacular work are conducted at Calcutta and Dacca.

WOMEN'S MISSIONARY AUXILIARY, B.M.S.,— Extends over the same area practically as the above; there are 75 missionaries, 336 Indian Workers, 102 Girls' Day Schools, and 5 Girls' Boarding Schools in connection with this work; 751 villages are visited annually by Teachers and Missionaries engaged in Gospel work. A large place is given to medical work, 5 Hospitals with qualified staffs and 12 Dispensaries providing for 1,004 in patients, and 93,874 outpatients for the past year. The Indian General Secretary of the Women's Missionary Auxiliary of the Bapiet Missionary Society is Miss Angus, 44 Lower Circular road, Calcutta.

THE CANADIAN BAPTIST MISSION.—Was commenced in 1873, and is located in the Eastern Telugu District to the north of Madras, in the Kistna, Godaveri, Vizagapaton, and Ganjam Districts. There are 20 stations and 162 outstations with a staff of 88 missionaries, including 5 qualified physicians, and 567 Indian workers, with Gospel preaching in villages. Organised Churches number 64, communicants 9,482, and adherents 13,809 for the past year. Ten Churches are entirely self-supporting. In the Educational department are 226 village Day schools, with 6,502 children, 8 Boarding schools, 2 High schools, a Normal Training school, a Theological Seminary providing in all for 619 pupils, and an Industrial school. There are 5 Hospitals. The Mission publishes a Telegu Newspaper. Village Evangelisation is the great feature of the Mission, and stress is laid upon the work amongst women and children in particular. During the last decade membership has increased by 71 per cent. the Christian Community by 90 per cent. and scholars by 376 per cent. The Indian Secretary is the Rev. A. A. Scott, Tuni, Godavari Dist.

THE AMERICAN BAPTIST TELUGU MISSION.—Was commenced in the year 1840, and covers large parts of Nellore, Guntur, Kistna, and Kurnool Districts, and parts of the Deccan. Its main work is evanglism, but there is large Educational and Medical work in addition. There is an English Church in Madras. A large industrial Yerakala settlement is carried on at Kavali under the charge of one of the missionaries. Organized Telugu Churches, number 133, with 66,826 baptised communicants. There has been a net increase of 1,000 per annum for the past twenty years. There are 126 Missionaries and 1,671 Indian Workers. There is a large Theological Seminary at Ramapatnam for the training of Indian preachers and a Bible School at Nellore for the training of Bible Women. In ordinary educational work 601 day schools give training to 18,577 scholars. In Medical work 5 Hospitals report 1,501 in-patients and 19,583 out-patients for the year.

Corresponding Secretary: Rev. William J.

AMERICAN BAPTIST FOREIGN MISSION SOCIETY, commenced in 1814, the largest Society at work in Assam and Burma, owes its rise to the celebrated Adoniram Judson. Until 1910 the Mission was known as the American Baptist Missionary Union. There are 12 main stations in Assam, 26 in Burma and hundreds of out-stations. All forms of missionary enterprise come within the scope of the Mission. The missionary staff numbers 195 in all, with an Indian workers' staff of 4,954. Communicants number 147,676. Organised Churches number 1,316, of which 860 are self-supporting. Educational work is conducted on a large scale, the total number of schools of all grades being 1,848 with over 58,000 pupils. The Christian College has 68 students. There are 8 High Schools with 3,162 pupils.

Medical works embraces 12 Hospitals and 29 Dispensaries. During 1913 the number of out-patients treated was 60,075, and in-patients 1,784.

The great work of the Mission continues to be evangelistic and the training of the native preachers and Bible-women, and extends to many races and languages, the most important of which, in Burma, has been the practical transformation of the Karens, whose language has been reduced to writing by the Mission. The work in Assam embraces 9 different languages, and large efforts are made amongst the employers on the tea plantations. The Mission Press at Rangoon is said to be the largest and flust in Burma. The American Baptist, Bengal-Orissa mission are branches of the above.

Assam Secretary, Rev. Judson Tuttle, M.A., Gauhati, Assam.

Burma Secretary, Rev. A. C. Darrow, Moulmein, Burma.

THE TASMANIAN BAPTIST MISSION.—With 3 missionaries, is established at Siragunge, E. Bengal.

Secretary: Rev. E. T. Thompson, Mission House, Siragunge.

THE AUSTRALASIAN BAPTIST MISSONARY SOCIETIES.—Representing Australia, N. Zealand, and Tasmania, are working in Bengal with a staff of 36 missionaries, and 103 Indian Workers. There are 17 organised Churches, 1,074 Communicants, and a Christian community of 3,611. Educational work comprises 2 High schools, 5 Boarding schools, 2 Industrial and 62 Elementary schools, with 1,912 pupils in all. In Medical work, 1 Hospital, and 3 Dispensaries provide for 31,649 in and out-patients. Secretaries: Rev. C. H. Harvey, Calcutta; Dr. C. S. Mead, B.A., (Faridpur Mission) Orakandi, Faridpur District; Miss E. L. King, Rajbari; and the Rev. E. T. Thompson, (Tasmanian Mission) Stragunge.

THE STRICT BAPTIST MISSION—Has 9
Missionaries, and 86 Indian Workers in Madras
W. and the Trichy District. Communicants
number 100; organised Churches 4; Elementary
schools 24, with 1,200 pupils.

Secretary: Rev. E. A. Booth, Kilpauk, Madras, W.

AMERICAN BAPTIST, BENGAL-ORISSA MISSION schools, pupils 4,880. Two Industrial schools immenced in 1836, Area of operation, Midnarore and Balasore districts of Lower Bengal. cular Press of this mission printed the first listenature in the Santali Language. commenced in 1836. Area of operation, Midna-pore and Balasore districts of Lower Bengal. Mission staff 29, Indian workers 264. One English Church and 24 Vernacular Churches, Christian Community 5,000. Educational; One Theological High School, and 150 Elementary | Midnaporc.

Secretary: Rev. Howard R. Murphy, N. D.

PRESBYTERIAN SOCIETIES.

THE - IRISH PRESBYTERIAN MISSION.—Operates in Gujerat and Kathia-war with a staff of 36 Missionaries of whom 4 are qualified doctors and an Indian staff of 560 including school teachers. There are 25 Organised Churches, a communicant roll of 1,498, and a Christian community of 5,447. In Medical work there are 2 Hospitals, 5 Dispensaries, with 839 in-patients and 23,232 out-patients. The Mission conducts 3 High schools, 3 Anglovernacular schools, and 123 vernacular schools affording tuition for 6,351 pupils, 5 Orphanages, a Divinity College at Ahmedabad, and a Mission Press at Surat. The Mission has made a speciality of farm colonies, of which there are about a score in connection with it, most of them thriving.

The Jungle Tribes Mission with 8 missionaries is a branch of the activities of the above, working in the Panch Mahals and Rewa Kantha districts, with farm colonies attached.

Secretary: Rev. R. R. Johnson, B.A., Mission House, Broach.

THE UNITED PRESBYTERIAN CHURCH OF N. AMERICA.—Sialkot Mission was established in 1856 operating in the extreme North of the Punjab, and is practically the only Mission working amongst the 9,374 cities and villages of that district. Its missionaries number 105. Indian workers 674. There are 54 Organised indian workers 574. There are 54 Organised Churches with 499 outstations, a membership of 31,631, and a Christian community of 58,034; Women's Societies number 32; a Theological Seminary and a College; 4 High schools, 8 Middle schools, 2 Industrial schools and 191 Primary schools, containing in all 11,617 pupils. In Medical work, there are 4 Hospitals and 7 Dispensaries with 1,980 in-patients, and 53,293 out-patients for 1913.

Secretary: Rev. E. L. Porter, Rawal Pindi.

THE AMERICAN PRESBYTERIAN MISSION operates in 3 main sections, known as the Punjab, North India, and Western India Missions. The American staff numbers 216 and Indian staff 924. There are 29 main stations and 178 out-stations. Communicates number 7,319, Christian community 38,978. Educational work as follows: 2 Christian number 7,819, Christian community 36,978. Educational work as follows: 2 Christian Colleges, students 608; 1 Theological Institution, pupils 61; 7 Training Institutions, pupils, 120; 12 High schools, scholars, 2,040; 17 Boarding schools, scholars, 1,220; 3 Industrial schools, pupils, 29,220; Elementary schools, scholars, 4,356. Medical work: 8 Hospitals, 44 Dispensaries, with staff of 30, in-patients 3,631, and out-patients 2,33,343 for last year. The Hospital at Mirai, under the care of Tr The Hospital at Miraj, under the care of Dr. W. J. Wanless and Dr. C. E. Vail is well known throughout the whole of S. W. India, and the Forman Christian College at Lahore is equally used known and valued in the Punjab. The Khassia language has been reduced to writing, Allahabad Christian College is growing rapidly the Bible translated, and many books pub-

CHURCH and its mechanical and agricultural departand its mechanical and agricultural departments have become increasingly prominent. Woodstock College for women at Landour, Mussoorie, Principal Miss A. Mitchell, M.D., is one of the largest and most valuable institutions of this description in Northern India. Secretary of Council of A. P. Missions in India: Rev. H. D. Griswold, Ph. D., Mussoorie, Punjab Mission, Rev. E. D., Lucas, Lahore,

North India Mission, Rev. R. C. Smith, Fatchpur Haswa.

West India Mission, Rov. Henry G. Howard, Kodoli, S. M. C.

The above particulars are those published for 1913.

THE NEW ZEALAND PRESENTERIAN MISSION. Commenced as recently as 1910 at Jagadhri, Punjab.

Secretary: Miss A. E. Henderson, Jagadhri.

THE CANADIAN PRISBYERIAN MISSION.—
Commenced in 1877, has 13 main Stations in the Indore, Gwalior, Rullam, Dhar, Alirajpur, Jaora, Sitamau, Banswara, &c. Native States—The Mission staff numbers 66, Indian workers over 200, Organized Churches 13, Communicants (September 30, 1912-1913) 1,107, Baphised non-communicants, 1617, Unbaptised infants and catechumen 302. Educational work comprises Elementary and Middle Schools, High Schools for boys and girls, College, Theological Seminary and Classes. Industrial teaching and work is done in three Girls' Orphanges, in the Women's Industrial Home, and at Rasalpura which last includes the Mission Press pura which last includes the Mission Press and the School for the blind. The Medical work is large, chiefly among women.

Secretary: Rev. J. Fraser Campbell, D. D., Rutlam, C. I.

THE GERMAN EVANGELICAL SYNOD OF NORTH AMERICA.—Commenced work in the C.P. in 1865. The mission staff numbers 23; Indian Christian workers 247; Communicants 1,847; Total Christian community 3,967; Organised Churches 9; one Theological school with 10 churches; one High School with 72 students and 64 other schools with 3,792 students. The mission has 2 Hospitals and 6 Dispensaries which in 1914 treated 11,460 patients,

Secretary: Rev. F. A. Goetsch, Bisrampur.

THE WELSH CALVINISTIC METHODIST MISSION (OE WEISH PERSHYTERIAN MISSION) esta-blished in 1840 with a staff of 37 Mission-aries, 511 Native workers, occupies stations in Assam in the Khassia and Jaintia Hills, the

THE ARCOT MISSION of the Reformed Secretary. Rev. H. J. Scudder, M.A., & B.D., Church in America (Dutch), organised in 1853 Punganur, S. India.

lished in that language by the Mission. Com-locupies the Arcot and Chittoor districts in municants number 9,316, the total Christian community 30,000; organised Churches 391; 504 Indian ministers and workers. Churches self-supporting Churches 30. Elementary number 19, Communicants 3,936, total Chris-schools number 407, scholars 10,163; Board-tian community 11,298; Boarding schools 11, Ing schools 3, scholars 820, in addition to 1 scholars 529; Theological school 1, students Industrial school, 4 Training institutions and 37; High schools 4, scholars 1,219; Training 1 Theological Seminary. One Hospital and 3 Dispensaries provided for 6,611 patients for the past year.

Secretary: Rev. J. Ceredig Evans, Shillong The Arror Mission of the Reformed

Secretary: Rev. H. J. Secudder, M.A., & B.D.,

CONGREGATIONAL SOCIETIES.

FOR FOREIGN MISSIONS .- Has two large Missions, the American Marathi Mission, and the Madura The Marathi Mission includes a large Mission. The haratin mission inclines a large part of the Bombay Presidency, with centres at Bombay, Ahmednagar, Satara and Sholapur, was commenced in 1813, the first American Mission in India. Its activities are large and varied. The staff at the beginning of 1913 consisted of 47 missionaries and 529 Indian workers operating in 144 outstations exclusive of Bombay City. Organised Churches number 60 with 7,699 communicants, and 6,273 adhe-60 with 7,699 communicants, and 0,210 accepts. There is a Leper Church at Sholapur. The Educational work embraces 20 Boarding schools with 2,151 pupils, 152 Ordinary schools with 4,839 boys and girls under instruction, three-fifths of which are non-Christians. A large three-mins of which are non-communis. A range Theological Seminary at Ahmednagar trains for the Indian Ministry. Zenana work and Indus-trial work are vigorously carried on, the latter embracing carpentry, weaving and lace work. Much work is done in so-called famine districts. Much work is done in so-called famine districts. A School for the Blind is conducted on both Educational and Industrial lines. Upwards of 43,788 patients were treated in the Hospitals and Dispensaries of the Mission last year. The Mission has for 70 years published the "Dnyanodaya," the only combined English and Marathi Christian weekly newspaper. Special evangelistic work is carried on amongst the tribus brown as the Bhile and Maray. This the tribes known as the Bhils and Mangs. This Mission was the first to translate the Christian Scriptures into the Marathi tongue. The Arcot Mission commenced under the American Board in 1851 was transferred to the Reformed Church of America.

THE MADURA MISSION-In the S. Madras District, commenced in 1834, has a Staff of a missionaries and 810 Indian workers, operates in the Madura and Ramnad district and has a communicant roll of 7,954 and 23,987 adherents and 35 Organised Churches, many of which rents and 30 organises of the control of the contro is a christian conege as madura, as also Hospitals for men and women; at Pasumalai are a Theological Institution, Industrial school and Teachers' Training school. The Secretary of the Marathi Mission is the Rev. W. Hazen, Bombay; and of the Madura Mission, the Rev. J. S. Chandler, Madura

THE SCANDINAVIAN ALLIANCE MISSION OF

THE AMERICAN BOARD OF COMMISSIONERS | total mission staff is represented by 11 missionaries and 27 Indian workers. There are 30 Communicants and a Christian community of 50. A Boarding School, 1 Industrial School and 11 Elementary Schools provide for 150

and 11 Deciments, pupils.

Secretaries: Rev. O. A. Dahlgren, Navapur, Khandesh, and Miss H. Abrahamson, Domar, Bengal. The Branch in Khandesh co-operates missions having a united yearly conference.

THE SWEDISH ALLIANCE MISSION .- Working among the Bhils in West Khandesh has 11 missionaries and 26 Indian workers. There are 7 churches with a total membership of 556 of whom 245 are communicants. There are 5 Elementary schools, one Boarding School, and one Industrial School. The pupils are 130,

Secretary: Rev. G. A. Bjork, Nandurbar, West Khandesh:

THE SCANDINAVIAN ALLIANCE MISSION, HIMA LAYAS.—(Finnish Branch). The total mission staff is represented by nine missionaries and six native workers. There are about 80 Communicants five churches and a Christian community of about 100. One Orphanage with 23 orphans, one Kindergarten school, one Upper Primary school and three Day Schools with about 70 pupils. Acting Secretary: Miss Klara Hertz, Lachen, via Gangtok, Sikkim.

THE LONDON MISSIONARY SOCIETY.—Com-menced work in India in 1798 and occupies 10 centres in N. India, 12 in S. India and 7 in Travancore. The Mission engages in every form of Missionary activity. The European staff numbers 223, Indian workers 2,004; Organizad Churche. Organised Churches, 490; Communicants 13,748 and Christian community 116,575. There are 4 Christian Colleges, students 159; There are 4 Christian Colleges, students 169; 3 Theological Institutions, students 41; 4 Training Institutions, pupils 114; 22 High schools, pupils 4,849; 25 Boarding schools, schoars, 1167; 9 Industrial schools, pupils, 116 and 862 Elementary schools with 36.775 scholars. In Medical work Hospitals number 15, Dispensaries 15, qualified doctors 10, and 3,997 in-patients and 130,220 out-patients for the year. 3,997 in-patients for the year.

The main centres of the Mission in N. India are at Calcutta, Benares and Almora. The Bhowanipur Institution at Calcutta is now a THE SCANDINAVIAN ALLIANCE MISSION OF STREET AMERICA.—Embraces, two Branches, on amongst the thousands of pilgrims visiting Bengal and the other in Khandesh. The Benares, and Almora is noted for its Hospital and Leper Asylum. Special efforts are made said to be the largest in India, and a large amongst the Nama Sudras and the aboriginal Printing Press, the centre of the S. Travancore tribes known as the Majhwars, Cheros and Pankas. The S. India district is divided into the Kanarese, Telugu and Tamil areas, with 12 stations and 472 outstations. At Nagercoil, (Travancore) is the Scott Memorial College S. India Secretary: Rev. E. P. Rice, B.A., Bangawith 985 students, a Church and congregation

Tract Society.

N. India Secretary, Rev. W. R. LeQuesne, Calcutta.

ALL-INDIA MISSIONS.

THE CHRISTIAN AND MISSIONARY ALLIANCE the principal of which is Dehra Dun. Director—Dates from the year 1893 under the Pastor J. O. Lawson, Dehra Dun. name of the India Missionary Alliance, but a THE SANAPOR AND LOHAGHAT DISTRICT. number of its missionaries were at work in Berar Province much earlier. The work is confined to the provinces of Berar, Khandesh and Gujerat. There is a staff of 76 missionaries and 85 Indian workers. The number of Mission stations is 21, with additional outsta-tions. There are 4 orphanages, 2 for boys and 2 for girls: 3 training schools for Indian workers. and 1 English congregation at Bhusawal. Secretary: Rev. E. R. Carner, Khamgaon, Berar.

THE CHURCH OF THE BRETHREN (AMERICAN) —Opened work in 1895, and operates in the Southern part of Gujerat, Khandesh, and Thana Districts. Its staff numbers 29 including missionaries' wives, and 105 Indian workers. The baptised (immersed) membership stands at 1,125; education is carried on in 2 Girls' Boarding schools, 4 Boarding schools for boys, and 81 Village Day schools. Industrial work is connected with four of the schools, and a Farm Colony is established at Umballa.

THE POONA AND INDIAN VILLAGE MISSION .-Founded in 1893 operates in the Poona, Satara Founded in 1893 operates in the 7cons, Satera and Sholapur Districts, with 23 European and 32 Indian workers. The number of Indian Christians is 40. The main work is evangelism of the villages, with Women's Zenana work, and Village schools. There are 4 Village Dispensaries, including a large medical work in the great pilgrimage city of Pandharpur. And a hospital at the head-quarters of the Mission, Nasrapur, in the Bhor State. Secretary: Mr. J. W. Stothard, Nasrapur, Poona District.

THE AMERICAN CHURCHES OF GOD MISSION. -Has two missionaries at Bogra, Bengal.

THE INDIAN CHRISTIAN MISSION—Founded in 1895, has 31 Organised Churches, 11 Missionaries, 37 Indian workers, 511 Communicants, and 30 Primary schools in the Ellore district, S. India, Stations also in Berenag, Kumaon, N. India, and Nuwara Eliya, Ceylon Secretary: A. S. Paynter, Nuwara Eliya, Ceylon.

There are 3 PENTECOSTAL MISSIONS at work. The Pentecostal Mission in W. Khandesh and Thana Districts; the Pentecostal Church of the Nazarine Mission at Buldana, Berar, and the Pentecost Bands of the World Mission with a Boys' Orphanage at Dondi Lohara, C. P. and a Girls' Orphanage at Raj Nandgaon, headquarters.

THE SANAPPUR AND LOHAGHAT DISTRICT BIBLE AND MEDICAL MISSION-Was established at Lohaghat, 48 miles from Almora, in 1910. Amongst the faith missions are the Vanguard Mission at Sanjan, Thana District, with 6 Missionaries; the Hephizibah Faith Mission, with 6 Missionaries, headquarters at Raghunathpur, Bengal; and the Church of God Mission with 7 Missionaries at Lahore. The Burning Bush Mission has a staff of 8 Missionaries at Allahabad. The Tehri Border Village Mission is the only Christian enterprise in the Himalayan Native-State of that name, its agents are stationed at Landour, and have translated portions of the New Testament Into the Tehri-Garhwall language.

THE TIBETAN MISSION-Has 5 Missionaries with headquarters at Darjeeling, and Tibet as its objective. Secretary: Miss J. Forguson, Darjeeling.

The Indian Missionary Society of Tinnevelly (DORNAKAL MISSION)—Opened in 1904, operates in the Warangal District of the Nizam's Dominions. It is the missionary effort of the Tamil Christians of Tinnevelly. There are now 1,550 Christians in 46 villages. Secretary: Mr. J. Anbudaiyan, B.A., L. T., Palamcottah. THE MISSION TO LEPERS—Founded in 1874.

is an interdenominational and international Society for the establishment and maintenance of Asylums for Lepers and Homes for their untainted children, working largely in India, China, and Japan. Its work in India is sionary Societies. The Mission now has 40 Asylums of its own with over 3,500 inmates, and is alding or has some connection with work for lepers at 20 other places in India. In the Mission's own and aided Asylums there are about 3,100 Christians. The total number of lepers reached by the Mission in India is about 5,000.

An important feature of the work of the Mission is the segregation of the untainted or healthy children of lepers from their diseased parents. 500 children are thus being segregated and saved from becoming lepers.

The Mission very largely relies on voluntary contributions for its support. Secretary for India Mr. W. H. P. Anderson, 6, Napier Road, Poonn. Head Office, 28 North Bridge, Edinburgh; Mr. Wellesley C. Bailey, General Superintendent. Organising Secretary, Mr. John Jackson, F. R.G.S., 33, Henrietta Street, Covent Garden, London.

Nandgaon, headquarters.

THE REGIONS BEYOND MISSIONARY UNION
THE INDUSTRIAL EVANGELISTIC MISSION—
Is engaged mainly with orphan children and owes its rise to the famines of 1897 and 1900, occupies 4 stations and 7 outstations in the It numbers about 120 Christians in all stations, Champaran and Saran Districts, with a steff

of 13 Europeans, and 34 Indian workers. There are 21 Elementary schools, with 517 pupils, a Girls' and a Boys' Orphanage and Boarding school, communicants number 50.

THE NATIONAL MISSIONARY SOCIETY OF INDIA—Established 1905, it has a staff of 21 Indian Missionaries, operates in Karwar, Okara (Punjab) and Omalur (Madras). Com-municants number 125; Christian community patients, 1,700. Secretary: K. T. Paul, Esq., B.A., L.T., Madras, S. W. Dispensary

THE SEVENTH DAY ADVENTISTS-Established 1895 have 44 Missionaries in various parts of 1895, nave 44 bissionaries in various parts of India. Communicants, 221; Christian community, 1,034; Churches, 2; Elementary schools, 4; Hospitals, 2; Disponsaries, 2; patients 1,150. Secretary: Rev. J. L. Shaw, Kirkville House, Mussoorie.

THE AMERICAN MENNONITE MISSION.— Established 1899, works in the C. Provinces. Mission staff numbers 20, Indian workers 80; Church members 530, 1 Industrial Training Institution, 1 High School, 1 Bible School, 2 Orphanages, 1 Widows' Home, Institution, 1 High School, 1 Bible School, 2 Orphanages, 1 Widows' Home, 1 Leper Asylum, Elementary Schools 8; Dispensaries 3, Hospital 1. Superintendent: Rev. M. C. Lapp, P. O. Dhamtari, C. P.

THE MENNONITE MISSION GENERAL CONFERENCE—Started in 1901 in the C. Provinces. Workers number 11; Leper, Medical, Orphan and village work carried on. From the Leper Asylum 118 have been baptised. Secretary: Rev. P. W. Penner, Jangir. C.P.

THE KURKU AND CENTRAL INDIA HILL MISSION -- Established 1890 in the C. P. and Berar, has a mission staff of 22, Indian workres 17; Churches 7, Communicants 105; Christian community 550; 2 Boarding, 1 Industrial and 4 Elementary schools, with 114 pupils, Secretary: Mr. Carl Wydner, Ellichpur, Berar.

THE CEYLON AND INDIA GENERAL MISSION-Established 1893, occupies stations in India in the Coimbatore and Anantapur Districts. Mission staff, 23; Indian workers, 50; Churches 10, with Communicants 256, and Christian community 678; Orphanages 3; Elementary schools 14; pupils 325.

Secretary: Rev. D. Logan, Coonoor, Nilgiris.

THE BOYS' CHRISTIAN HOME MISSION-THE BOYS' CRRISTIAN HOME MISSION— Owes the existence to a period of famine; was commenced in 1899. Mission staff 10, Indian workers, 20. There are two Elementary schools with 80 children; Orphans' and Widows' Homes, and 210 in the Homes at Dhond Bahraich, and Oral, where Industrial Training is given. Secretary, Mr. Albert Norton, Dhond, Poona District.

Ladies' Societies.

ZENANA BIBLE AND MEDICAL MISSION.—
This is an interdenominational society, with headquarters in London, working among women and girls in seven stations in the Bombay Fresidency, one in Madras, fourteen in United Provinces, and five in the Punjab. There are 180 European Missionary Ladies on the staff Boys and Girls, 1 Angio-Vernacular school, and 22 assistant missionaries, 215 Indian ZENANA BIBLE AND MEDICAL MISSION.

workers, teachers and nuses, and 77 Bible women. During 1913 there were 2,216 in-patients in the five hospitals supported by the Society (Nasik, Benares, Jaunpur, Lucknow and Patna) and 25 942 out-patients. In their 56 schools were 3.369 pupils, while 174 women were under training as teachers. The evangelistic side of the work is largely done by house to house visitation and teaching the women in Zenanas: 3,242 women in 2,632 houses were so taught.

The Ludhiana Zenana and Medical Mission has its Hospital, 2 Lady Doctors, and Dispensarv at Ludhiana and branch Dispensaries with 11 nurses, teachers and Biblewomen at Sill and Phillour, Secretary, Miss Greenfield, Ludhiana.

The Missionary Settlement for University Women was founded in Bombay in 1895 to reach the higher class of Indian ladies, its activities now include a hostel for women students, in addition to educational, social, and evangelistic work. Secretary, Miss Dobson, Girgaum, Bombay.

The Mukti Mission, the well-known work of The Mulki mission, the wen-known work of Pandita Ramabai enables upwards of 350 widows, deserted wives and orphans to earn a comfortable living by means of industrial work organised by the Pandita, supported by a good staff of Indian helpers. A large staff of Euro-pean Missionary Ladies do evangelistic work in the surrounding Kedgaon, Poona District.

Disciple Societies.

The India Mission of the Disciples of Christ (Foreign Christian Missionary Society of Cin-cinnati, Ohio, and Christian Women's Board of Missions of Indiana combined) commerced work in 1882; its area Central and United Provinin 1882; its area Central and United Frovinces; number of Indian Churches 13, and immersed communicants 1,888. Its staff, including Missionaries' wives, 67; Asst. missionaries 3, and Indian Worker's staff 287. There are 7 Hospitals, 15 Dispensaries, with 47,590 inpatients and outpatients for the past year. Three Orphanages and an Industrial Home show 474 inmates. In connection with the Industrial work a farm of 400 acres has been taken at Damoh. There are 6 Middle schools, 37 Primary schools with 3,187 scholars. An active Zenana work is carried on. A small work known as the Australian Mission is under the auspices of the "Disciples" at Baramati, Poona, and also at Daltonganj, W. Bengal. Secretary, Rev. W. B. Alexander, B.A., Damoh, C. P.

Undenominational Missions.

The Central Asian Mission, with a Church, Dispensary and School is found on the N.-W. Frontier, conducted on the lines of the China Inland mission, and has Kafristan as its objec-

Hospital with a general dispensary connected) with the Mission, in addition to a self-supporting weaving community at Itarsi, and Industrial Works and a Farm Colony at Hosangabad. Secretary, Mr. Henry I. Robson, Schagpur,

The American Friends' Mission with 5 Missionaries is working at Nowgong. Secretary, Miss D. Fistler, Nowgong C. I.

The Old Church Hebrew Mission was established in 1858, in Calcutta, and is said to be the only Hebrew Christian Agency in India. Secretary, J. W. Pringle Esq., Calcutta.

THE OPEN BRETHREN—Occupy 46 stations in the U. Provinces, Bengal, S. Maratta, Godaveri Delta. Kanarese, Tinnevelly, Malabar veri Delta. Kanarese, Tinnevelly, Coast, Coimbatore and Nilgiri Districts. hold an annual Conference at Bangalore.

Lutheran Societies.

The American Evangelican Lutheran Mission. General Council, founded in 1844 for the Godaveri and Kistna Districts, has its Headquarters at Rajamundry. Its staff consists of 28, includ-ing Missionaries wives and Lady Doctors, with nig missionaries wives and Lady Doctors, with 465 Indian Workers. The membership is 22,598. There are Boys' and Girls' Central Schools, Mission Press, and Book Depot at Rajamundry, and a High School at Peddapur. The Rev. Rudolf Arps, B. D., Dow-Chairman, laiswaram.

The 'General Synod' Section of the above, The General Synou Section of the Boove, has its headquarters in Guntur, founded in 1842. Its Christian community numbers 46,594, with 16,242 communicants, 27 missionaries inclusive of wives, and 815 Indian workers, shewing an increase of 61 per cent. during the past ten years. The following institutions are connected with the Mission, a second grade College, High school for Girls, Hospital for women and children, Normal training School, and Industrial School. Sec-vetary, the Rev. Victor McCauley, Guntur.

The Evangelical National Missionary Society of Stockholm, founded in 1856, occupies the districts of Betul, Chindwars, and Saugor in the C. Provinces. There are 1,510 Church members and 11 Indian Churches. The staff numbers 42, including women workers, with an Indian staff of 147. Schools number 49 with 1,433 children, together with 'Anglo-Vernacular, and 1 training school, and a Hospital. Secretary, Roy. A. G. Danielsson, D. D. Chhindwara, C. P.

The Hermannsburg Evangelical Lutheran Mission began its work in India in 1866 and operates in the South Nellore, the East Chittore. and South East Caddapa Districts. There are 22 Indian Churches; 13 European Missionaries 22 Indian Churches; 13 European Missionaries and 178 Indian workers, Church members number 317. Women's work is done in 3 stations, with a large Industrial school for 70 girls, in a fourth, in addition to Zenana and Educational work. There are 91 Lower grade Elementary schools, 1 High school, 1 Lower Secondary, and 2 Higher grade schools, and a Theological Seminary and Training school. A Leper Asylum is stationed at Kodur with a Diagnessary, and a large Industrial school at Educational work. There are 91 Lower grade Elementary schools, 1 High school, 1 Lower Secondary, and 2 Higher grade schools, and a Leper Asylum is stationed at Kodur with a Leper Asylum is stationed at Kodur with a Dispensary, and a large Industrial school at Dispensary, and a large Industrial school at Nayudupeta. Secretary, Rev. J. Rohnew, Gudur, Nellore Dist., Madras.

THE CHERCH OF SWEDEN MISSION.—Wardounded in 1874, and operates in the Madura. Tanjore, Trichinopoly and Rammad Districts. The Mission works independently though in close relationship with the Leipzly Missionary Society. The staff numbers 15. Applies membership 2,625; Schools 57 with Nayudupeta. Secretary, Rev. J. Rohnew, Gudur, Nellore Dist., Madras.

The Schlesswig Holstein Evangelical Lutheral Mission, commenced in 1881, operates in the Vizagapatam District. Fruitful work is carried on amongst the Odiya Hill Tribes, the Konda and the Dombo Castc. There are 12 stations a total Missionary Staff of 44, with 441 India workers. The growth in the Christian population has been from 1,530 in 1901 to 16,550 in 1914. Communicants number 4,140, and Cate chumen 7.8,62. Education work comprise 1 Theological Seminary, 1 Secondary, 1 Indus trial, and 100 Elementary schools, providing fo 2,716 pupils. There are 9 Dispensaries with 50,000 patients for the year. English Service are held in the Mission Church at Jeypore Secretary, Rev. J. Th. Timmeke, Koraput Vizagapatam.

LEIPZIG EVANGELICAL LUTHERAN MISSION. GERMAN DIOCESE.—The mission commenced in 1834, and is confined to the Tamil speaking areas, chiefly in the Madras Presidency, with an Indian Minister and Church, in addition, in Rangoon. The total European staff numbers 33, ordained Indian Ministers 24 and 109 33, ordained indian Ministers 24 and 109 Indian workers; Organised Churches, 33; places of worship, 221; Baptised nembership 19,558. There are 133 boys' schools (including a Training, an industrial and 4 Secondary schools) and 23 Girls' schools, including an industrial school. The teaching staff numbers 558 and districts 13 chools are consistent of the schools of pupils 10,394. Zen na work is actively prosecuted. A Printing Press and Publishing House are established at Tranquebars. Secretary: Rev. H. Goebler, Kilpauk Madras.

THE BASEL MISSION was commenced in 1834. and occupies 26 main stations and 128 out-stations in the Coorg, S. Mahratta, Nilgiris, and N. and S. Canara districts of S. W. India. The total European Staff numbers 159 with 1.110 Indian workers. There are 66 organised Churches, with a membership of 19,762. Educational work embraces 204 schools (including 2 Theological, 9 Boarding and 4 High schools) with 16,970 Elementary and 3,150 Secondary school pupils and 831 scholars in Boarding Institutions and Orphanages. There are good Hospitals at Betgiri and Calicut under European doctors with 3 branch hospitals and 4 Dispensies connected; 66,804 patients were treated last year. There is a Leper Asylum at Chevayur.

The Industrial work of the Mission is second The Industrial work of the Mission is second to none in India and comprises 17 establishments, embracing one mechanical establishment of a first rate order at Mangalore, 2 Mercantile brauches, 7 Weaving and 7 Tile work establishments in the Kanara and Malabad districts; employes number 3,633. A large Printing Press at Mangalore issues publication in the Kanarese, Malayalam, Tulu and English languages.

Secretary, Rev. A. Schosser, Manglore.

THE MISSOURI EVANGELICAL LUTHERAN MISSION — Is located in Arcot and Travancore with a staff of 15 Missionaries. One Training school, 58 pupils, and 41 Elementary schools with 1,717 pupils are connected with the Mission

Secretary, Rev. G. Hucheuer, Nagercoil, Travancore.

THE DANISH EVANGELICAL LUTHERAN MISSION—Established 1863 in Madras and SA Arcot Districts has a total staff of 28 Missionaries and 80 Indian workers; Communicants 648, Christian community, 1,550; 2 High schools, pupils 410; 3 Boarding schools, scholars, 146; 4 Industrial schools, pupils, 79, 35 Elementary schools, 1,500 scholars; Dispensary patients, 15,138.

Secretary, Rev. Joh. Bittmann, 38 Broadway, Madras.

THE GERMAN EVANGELICAL LUTHERAN (GOSSNER'S MISSIONS)—Founded 1836, occupies stations in Bengal, Bihar and Assam; the Mission staff numbers 92. Indian workers 1,017; Communicants 34,208 and Christian community over 100,000; organised Churches, 437. Theological and Teacher's Seminaries: 66 pupils. Boarding Schools: 39. Elementary Schools: 277. Pupils in schools: 9,355. Leper asylum: 728 inmates. Lace schools in Ranchi and Purulia.

Secretary, Rev. Paul Wagner, Purul a, B. N. Rly. Manbhum, Bihar, Head-quarters Fridemon, Berlin, Germany.

THE SANTAL MISSION OF THE NORTHERN CHURCHES.—(formerly known as the India Home Missions to the Santals)—Founded in 1867, works in the Santal Parganas, Goalpara (Assam), Malda, and Dinapur. Work is principally among the 3,000 Santals. The mission staff numbers 20, Indian workers 264; communicants 3,000, Christian community 18,000; organised churches 30; boarding schools 2; pupils 340; elementary schools 31; pupils 535.

Secretary, Rev. P. O. Bodding, Dumka, Santal Parganas.

Methodist Societies.

The Methodist Episcopal Church began its Indian Mission in 1857, and with the exception of Assam, and the N. W. Frontier Provinces is now established in all the political Divisions of India. Its number of baptised Christians stands at 251,275, under the supervision of 240 ordained and 900 unordained Ministers. Schools of all grades number 1,569 with 39,087 students, Sunday School scholars stand at 126,000, and young peoples' societies at 604, generally known as Epworth Leagues. Thirty Anglo-Indian Congregations are found in the larger Cities, with one College, 6 High schools, and numerous Middle schools for this class. For Anglo-Vernacular Education the mission has 3 Colleges, 12 High schools and 62 schools of Lower grade. The net increase from the non-Christian races has been at the rate of 15,000 per annum, for the last decade. The Isabella Thoburn Training College at Lucknow is a large Institution. There are large printing presses at Calcutta, Madras and Lucknow,

In Burma there are 9 schools, with 1,484 pupils, a large Boarding and Day school for European Girls at Rangoon, a hill station Boarding school for Girls at Thandaung, and an Anglo-Indian Church at Rangoon.

of While financially supported by the Board of Foreign Missions of the American Methodist Episcopal Church, ecclesiastically the Church in India is independent of foreign control, being under the supervision of its own bishops, being in the Mission of the Missi

The American Wesleyan Church with 5 Missionaries, has in recent years taken over an independent Mission at Pardi and Daman, Gujerat District. Secretary, Rev. A. E. Ashton, Pardi.

The Reformed Episcopal Church of American (Methodist) at Lalitpur and Lucknow U. P. has 2 Missionaries, 4 Outstations, 2 Orphanages, and a membership of nearly 100.

THE WESLEYAN METHODIST MISSIONARY SOCIETY commenced work in India in 1817 (Ceylon in 1814). The Mission in India is organised into 8 District Synods with 2 Provincial Synods. There is a large English work connected with the Society, 20 ministers giving their whole time to Military work and English churches.

The districts occupied include 64 main stations in Bengal, Madras, Mysore, Bombay, Punjab, Central Provinces, Hyderabad (Nizam's Dominions), Trichinopoli and Burma. The European Staff numbers 169 with 2,292 Indian workers; Communicants 12,303, and total. Christian community 44,084. Organised Churches, 93.

Educational work comprises 3 Christian Colleges, students, 560; 9 Theological Institutions, pupils 80; 11 Training Institutions, pupils, 96; 13 High Schools, pupils, 5,094; 71 Boarding schools, scholars, 2,478; 10 Industrial schools, pupils, 602; 784 Elementary schools, with 30,270 scholars. In Medical work there are 12 hospitals, 22 dispensaries, 18 qualified doctors, 2,984 in-patients and 75,703 out-patients for the year.

The above particulars are those published, for 1913.

Vice-Chairman of General Synod:-Rev. J. Cooling, B. A., Madras.

The Women's Foreign Missionary Society of the M. E. Mission is divided into 7 Conferences and is co-extensive with the main work of the Mission. Upwards of 172 Lady Missionaries are engaged in Educational, Zenana, and Medical work. The Secretary for the Bombay Conference is Miss A. A. Abbott. The Manae, Bellasis Road, Bombay.

THE FREE METHODIST MISSION of N. America—Established at Yeotmal, 1893, operates in Berar with a Staff of 19 Missionaries and 16 Indian workers. Organised church 1, Communicants 70; 1 Industrial and 6 Elementary schools, with 125 pupils.

Secretary, Miss L. D. Calkins, Yeotmal, Berar.

ROYAL ARMY TEMPERANCE ASSOCIATION.

In 1862 there was started among the British troops in Agra a small Society, under the leadership of Rev. G. Gregson, Baptist minister, which after a short time took the name of the Soldiers' Total Abstinence Society.

For some ten years the Society struggled with varying success, spreading to other Garrison Stations, but at the end of that time, though it had obtained recognition from the Horse Guards, and was the first Society whose Pledge was so recognised, the membership was not more than 1,200. In the year 1873, however, through the influence of the then Commander-in-Cluief, the work was placed on a firmer tooting, the Rev. Gelson Gregson gave up his whole time to it, and by accompanying the troops through the Afghan War, making an extended tour through Egypt, and bringing the work into close touch with troops, both during peace and war, in the year 1886, when he left the Society, it numbered about 11,000 members. He was followed by a Madras Chaplain, who after two years gave place to the Rev. J. H. Bateson. In 1886, the late Lord Roberts, Commander-in-Chief, organised his Scheme for Regimental Institutes, which have had a wonderful effect on the life of British soldiers in the East; and the Total Abstinence Society was so far incorporated into the scheme as to be allowed ample accommodation, and many practical benefits, in every Unit. At the same time the name was changed to that of the Army Temperance Association, and the work of various societies thus linked together, under one organisation. The effect himself ever hoped for. The membership rose steadily from that date and still increases.

Growth of the Society.—In 1889 there re 12,140 members: in 1899, 20,688; in 1909, 30,220, while in 1913-14, the total was 35,000, or over 45 per cent. of the total garrison in India. In 1908, the Secretary having retired after 20 years, work, the Rev. H. C. Martin, M.A., a Chaplain in Bengal, was selected by H. E. Lord Kitchener, to the post of Secretary. Twenty years ago, the Association, which has now for some years been the Royal Army Temperance Association, which the Patronage of King Edward VII, and later of the Kirg Emperor, George V., organised a similar Society in Great Britain, with headquarters in London, from which the troops in South Africa, the Mediterranean, etc., are controlled, so that the whole British Army receives the attention of the Association.

Varied Activities.—What primarily has been the effort of the Association, namely the decrease of Intemperance, and promotion of sobriety among soldiers has gradually grown into work of every kind, in the interests of soldiers; promotion of sport, occupation of spare time, assistance towards employment in Civil Life, advice and information on the subject of Emigration, provision of Furlough Homes, all tend to enlist the support of officers and men in the Association, and add

to its value to them, and to the efficiency of its work, generally. The wonderful change that in late years has taken place in the character of the British Army, in India especially, is due to various causes, including the increased interest in games and sports, the spread of education, the different class of men enlisted, and so on, but the R. A. T. A. has always been given its due share among other causes, by all authorities and Blue Books, and particularly by Officers Commanding Divisions, Brigades and Units. These changes in conduct are seen most plainly in the increased good health of the Army in India.

Effect in the Army.—In the year 1889, 1,174 British soldlers died in India, and 1.800 were invalided unfit for further duty; in 1910, only 330 died, and 484 were invalided. In 1889, 688 underwent treatment for Delirium tremens, in 1910, only 37. In conduct the same difference is to be found; as late as 1901 as many as 545 Courts Martial were held on men for offences due to excessive drinking; in 1906 only 217. In 1904, 2,231 good conduct medals were issued; in 1910, there were 4,581. In regard to the character of the men themselves, who become members of the Association, during their service, we find that in 1912, 59 per cent. on transfer from the Colours obtained Exemplary characters, and 93 per cent. either Exemplary or Very Good; the remainder were for the most part men who, after some years of heavy drinking, had towards the end of their service been persuaded to try and reform themselves, but not soon enough to avoid the consequences of previous excess.

Organisation.—Recent movements of the Association prove it to have fost none of its energy; as a Memorial of the Jubilee of its work, and of the visit to India of their Majesties the King Emperor and Queen Empress, the Association is erecting a large Furlough Home in Northern India, at a cost of a lakh of Rupees, while in order to strengthen its work in regard to Emigration, the Secretary was this year sent on a tour to Australia where definite arrangements have been made for the reception and settlement of ex-solidiers, a number of whom have already proved their fitness as Colonial settlers. The following is the organisation of the Council and management:

Patron, His Majesty the King Emperor.

President, His Excellency the Commanderin-Chief.

Council.-

The General Officers, Heads of Departments, Army Headquarters.

The General Officers Commanding Divisions. Two Officers Commanding Regiments, Officers of the R. A. M. C. and I. M. S. Two Regimental Quartermasters. Representatives of the various Churches. Executive Committee.—

The Secretary, Army Department.

The Adjutant-General.

The Quarter-Master General.

The Director-General, Military Works, The Military Secretary to the C.-in-C.

General Secretary, Rev. H. C. Martin, M.A.

Treasurer, Mr. F. L. Shearman. Auditor, Mr. H. C. O'Brien.

Bankers, Alliance Bank of Simla.

Head Office, Middlelands, Simla.

Official Organ, "On Guard," published monthly, (Rs. 3 per annum.)

THE ANGLO-INDIAN TEMPERANCE ASSOCIA-TION .- Founded by the late Mr. W. S. Caine. M.P., is a Home Association which has been the means of establishing a net work of Temperance Societies throughout the Indian Empire, and has provided a common platform upon which Christians, Hindus, Mahomedans and Parsis unite for the moral elevation of the Indian peoples. There are 280 Indian Societies affiliated with the Association, The President is Sir J. Herbert, Roberts. Bart., M.P. and Secretaries, Sir Bhalchandra Krishna, Kt., L.M. (Bombay) and Mr. John Turner Rae (London). The interests of the Association are especially represented in Parliament by the President, and the Rt. Hon. T. R. Ferens, M. P., Mr. J. Herbert Lewis, M.P., and the Rt. Hon. Sir Thos. Whittaker, M.P., all of whom are members of the Association's Council.

THE ALL INDIA TEMPERANCE CONFERENCE.-Growing out of the Association mentioned above and in closest relation with it is The All India Temperance Conference, formed in 1903, which meets every year, as a matter of convenience at the same time and place as convenience at the same time and place as the Indian National Congress, but having no preachers. Twelve official connection with it. The President is elected annually, the Secretaries are more or less pormanent. The President for 1913 was the Hon. Dev. Prasad Sarvadikari, M.A., as the Hon. Dev. Prasad Sarvadikari, M.A., B.L., of Calcutta. The Secretaries are Sir Amritsar Society.

Bhalchandra Krishna, t.M., and Mr. D. D. Gilder of Bombay. The membership of the Gilder of Bombay. The membership of the Conference is the 280 Indian Temperance Societies affiliated with the Anglo-India Temperance Association as above, from each of which delegates are sent to the Annual Meeting of the Conference. Special Councils meeting of residency Societies are estab-lished at Bombay, Allahabad, Calcutta and Madras, each of which has its own local President, Secretary and Committee. The medium of communication between the Societies composing the Conference is the Abkari, published quarterly from England by the A. I. T. A. Amongst the general aims of the Conference may be mentioned :-

The separation of the licensing from the revenue:

The doing away with the present system of license auctioneering;

The reduction of the present number of liquor shops and the prevention of the formation of new ones in important positions especially in the crowded areas;

The later opening and the earlier closing of liquor shops, and the entire closing of them on public holidays;

The introduction of Temperance Teaching in the Government Elementry Schools and Colleges, which despite the desire of Gov-ernment expressed in thier Circular Letter No. 730-37 of 12th Sept. 1907 to "deal with the subject of intemperance in a few sensible lessons in the sanctioned Readers," has not yet been adequately treated and as in the corresponding schools in England.

The general spread of Total Abstinence principles depends more largely upon the individual solutions of the individual solution of the individual through various districts holding public meetings and addressing the masses wherever possible. Educational work is especially to districts public the front in the Panjab district through the

CREMATION.

Cremation as a means of disposing of the subject to reductions in the case of poor famidead is commonly adopted throughout India by the Hindus, but has been little adopted among the Europeans in India. A crema-torium was started some years ago in Calcutta torium was started some years ago in Calcutta close to the Lower Circular Road Cemetery, at a cost of Rs. 40,000. But the return for this expenditure is disappointing. Only five or six cremations take place in Calcutta each year, in spite of the fact that the fee for cremation has been fixed by the Camption South. tion has been fixed by the Cremation Society of Bengal at the very low figure of Rs. 30,

lies. The reason for this is thought to be that, les. The reason for this is thought to be that, when possible Europeans go home to die, and the Native Christians and Eurasians are very largely Roman Catholics among whom a prejudice exists against this form of the disposal of the dead. In Bombay arrangements have recently been made for a small area in the Sewri Cemetery to be walled in, and for cremations to be carried on within it in the primitive style of the country, but in such a way as to preserve the ashea.

Excise Policy

The excise policy pursued by the Government of India has been subjected to great criticism, on the ground that it leads to an increase in the consumption of alcohol and that it has introduced alcohol to classes which were previously strangers to it. These various arguments were placed before the Secretary of State by a deputation which waited upon him and were referred to the Government of India for an expression of their views. The Government of India consult-d the Local Governments, which are entrusted with the actual administration of the Excise, and their views, with those of the Government of India and of the Secretary of State, were published in the Gazette of India on July 25th, 1914. This resolution should be consulted by all who desire to understand the excise policy of the Government of India. Its main features are summarised

Increased Consumption.—That our excise administration is capable of still further improvement we are ready to admit, and it is a subject which receives our constant and watchful attention. We trust however, its foundations have been carefully and wisely laid, and that any attempt to attain by short cuts the objects which we set as permanently and consistently before us as do those most interested in temperance reform, could only end in a break-down of the system. We are convinced, in short, that we differ from our critics not so much on general principles as in the methods by which we attempt to realise them. While the revenue from country spirits, opium, and hemp drugs has increased by 28, 26, and 46 per cent. respectively, since 1905-06, the consumption per hundred of the population has in the case of country spirits increased by only 5 per cent.; that of opium has remained stationary; and that of hemp drugs has decreased by over 8 per cent. We desire, in this connection, specially to invite attention to the remarkable increase in invite attention to the remarkable increase in wages and general prosperity which the labouring classes in India have experienced during the last decade. In the absence of such progress, it would not have been possible for the still-head duty to be raised as it has been. Similarly, if the duty had not been raised, the increase in consumption would, we are con-vinced, have been very marked. It has, in fact, been trifling.

Misconceptions.—In this connection, we also desire to draw attention to the theory advanced in more than one of the reported speeches that the consumption of liquor, moderate or immoderate, is contrary to the sentiment of the great majority of the population of India and that in many classes of Indian society it has never been practised. Similar statements have been repeatedly made by critics of Indian excise policy, and our predecessors have frequently had occasion to refute them. Indulgence in liquor and drugs was widespread before British rule: "the classes whose habits of life are framed with a strict regard to religious oscial restrictions form in India no larger a proportion of the population than in other countries."

Another misconception reveals itself in the tendency on the part of more than one speaker to minimise the dangers from Illicit Manufacture and vend. This danger is very serious, if not the most serious which confronts us. It seems to us that, from all points of view our primary duty, and one of greater importance even than the reduction of licit consumption, is the complete suppression of illicit manufacture and vend. Until this preliminary object has been effected no stability can be looked for in our excise policy, the results of which would be seriously undermined if they involved any palliation of illicit methods or any undue encouragement to illicit distillation. We desire to dissociate ourselves entirely from the theory that if the licit supply were completely stopped, consumption would diminish. It is difficult under present conditions, to guard against illicit manufacture. If licit supplies were stopped the task, hard as it is, would become impossible. Possibly, the immediate results of such a course might be a reduction in the total number of consumers, but intemperance would certainly increase, as a result of lower retail prices, and we have no doubt that ultimately consumption would rise con-siderably beyond the level which it has now attained. Nor could any moral principles justify the demoralising effect on large sections Justify the demoratising enect on large scorous of the population of the evasion of laws which it would be impossible to enforce. In these circumstances, we do not consider that we should be justified in prohibiting moderate consumption even with a view to check occasional energy was a constrained in expect. ional abuse. We are only justified in expecting to secure the enhancement of retail prices and thereby to impose an artificial check on the increase of consumption which would otherwise occur as a result of natural tendencies. Our policy is not aimed against those who use alcohol in moderation. We merely attempt by raising retail prices to minimise temptation to those who do not drink and to discourage excess among those who do. We are chicfly concerned with the reduction of actual consumption, and this can only be effected when illicit supplies are suppressed by all such measures as are reasonable and practical.

Success Attained.—Basing our policy, then, on these principles and bearing in mind the limitations to which it is subject, we may fairly claim that a considerable measure of success has already been attained. The persistent pressing by the Government of India of the policy of substituting distilleries for outstills has had a very great effect, and is being steadily pushed forward. Distilleries are outsing the more primitive outstills, duty is being steadily pushed up, the numbers of shops are being widely reduced, and excise establishments are being generally strengthened. We would add that stabitory penalties against smuggling and other illeral methods are being gradually enhanced, particularly in the direction of securing firmer control over the cocaine traffic. In the period that has elapsed since the revision of our excise administration which followed the Report of the Excise Committee of 1005-06.

we have transferred no less than 213,000 square miles of territory from the outstill to the distillery system; while in 1905-06, 39 per cent. of the total excise area of India, and 28 per cent. of the population of that area, were served by outstills, the proportions at the present time are only 15 and 8 per cent, respectively.

The number of country spirit shops per 100,000 of the population has fallen from 15 to 11 and the area served by each has risen from 271 to nearly 37 square miles. The abolition of shops of other kinds has been carried out no less effectively, and the total net reduction amounts to 22,653. It is true that our excise revenue has increased enormously and is still increasing. We have, however, already shown that this increase is a necessary result of the system, and in no way constitutes the object in view. That there has been in fact no proportionate increase in consumption is evident on a reference to the statements enclosed. We have shown that, while the revenue from country spirit, opium and hemp drugs has increased considerably since 1905-06, the consumption of country spirit has only increased by 5 per cent. during the same period; that of opium is practically stationary; and that of hemp drugs has diminished by over 8 per cent. It is true that the recorded consump-tion of country spirit in distillery areas has risen from 7 to 10 million gallons, but almost the whole of the increase can be accounted for partly by the substitution throughout extensive areas of the distillery for the outstill system under which no record of consumption can be maintained, and partly by the imposition of closer control over illicit manufacture. Other though the customs duty on imported liquors increased from nearly a crore to over a crore and a quarter, the increase was entirely due to and a quarter, the increase was energy due the enhancements of duty; the actual imports declined during the period from 6,739,000 to 6,351,000 gallons. Finally, although, for the reasons already given, it is impossible to give statistics of the consumption of other country liquors, the rates of taxation of toddy has been raised by more than 50 per cent, and it is more than probable that enhancements of the retail prices have checked, if not actually diminished, consumption.

Temperance Work.—We claim in conclusion that our policy is realising its avowed object of checking the increase of consumption. Progress must be slow, for, as we have already shown, we consider the suppression of illicit methods to be a sine qua non to success. There is one direction in which we feel that much still remains to be accomplished. Our

Local Governments frequently draw attention to the desirability, and, indeed, the necessity of resolute and sympathetic work by temperance leagues among the people themselves. A certain number of leagues of this kind have, it is true, been formed. The special need of the country is not merely the formation of more leagues but also more sustained effort after formation. There is evidence that the promoters are too frequently content with memorialising fovernment, on whom they are inclined to throw the whole burden of the struggle against intemperance. While fully cognisant of our own responsibilities, and resolved that they shall be adequately discharged, we are assured that, until the advantages of temperance principles are resolutely and systematically brought home to the masses by the independent efforts of non-official leagues, the natural tendencies in favour of increased consumption will continue to operate in some degree, however much we may try to counter them by increased taxation.

Secretary of State.—In returning the papers to the Government of India the Secretary of State said:—

I concur in what I conceive to be the main position token up in Your Excellency's despatch. For the last 25 years the aim of the Government of India, in an often-quoted declaration, has been, first, to discourage any extension of the habit of drinking, and, secondly, within the limits prescribed by the necessity of suppressing unauthorised manufacture and sale, to raise a maximum revenue from a minimum consumption of intoxicating liquors. The expansion of revenue from intoxicants in recent years has been represented by temperance deputations both here and in India as concurrent with, or as evidence of, a heavy increase of consumption; and the suggestion has been put forward that the Government or its officials were fostering the increase of drinking habits to secure the expansion of revenue. The statistical table giving the consumption of country spirit in Distillery areas emphatically disposes of this contention so far as country spirit is concerned. It appears to establish that for India as a whole the increase of the consumption of country spirit per 100 of population is but slight,—not more than five per cent. during the period of seven years. It is true that this figure generalised for the whole of India, doubtless, loses sight of local variations and increases in particular areas; still, the broad fact that emerges is that during the period under review, a general increase of consumption, which in the present social and industrial conditions of India might have been apprehend ed, has in effect been held in check.

Warrant of Precedence in India.

(Brought up to 1 January, 1914.) VICTORIA, by the Grace of God of the United

Kingdom of Great Britain and Ireland Queen, Defender of the Faith, Empress of India,-

To all to whom these presents shall come:

WHEREAS it hath been represented unto Us that it is advisable that the rank and precedence of persons holding appointments in the East Indies as regulated by Our Royal Warrant, dated the 18th day of October, 1876, should be altered, We do therefore hereby declare that it is Our will and pleasure that in lieu of the table laid down in Our said recited Warrant, the following table be henceforth observed with respect to the rank and precedence of the persons hereinafter named, viz. :-

- 1. Governor-General and Viceroy of India.
- 2. Governors of Madras, Bombay and Bengal.
- 3. President of the Council of the Governor. General
- 4. Lieutenant-Governor when in his own territories.
 - Commander-in-Chief in India.
 - 6. Lieutenant-Governor.
 - 7. Chief Justice of Bengal.
- 8. Bishop of Calcutta, Metropolitan of India. 9. Ordinary Members of the Council of the Governor-General.
- 10. Commander-in-Chief of Her Majesty's Naval Forces in the East Indies.
- 11. Chief Justice of a High Court other than that of Bengal.
- 12. Bishops of Madras and Bombay. 13. Ordinary Members of Council in Madras, Bombay and Bengal.
- Officers Commanding 14. General Northern and Southern Armies: Chief of the General Staff.
- 15. Chief Commissioners of the Provinces and Assam, Residents at Hyderabad and in Mysore, and Agents to the Governor-General in Rajputana, Central India, and Baluchistan; Executive Members of the Council of the Lieutenant-Governor of Bihar and Orissa; the Agent to the Governor-General and Chief Commissioner of the North-West Frontier Province. [Note.—When within their own jurisdiction these officers take precedence of those mentioned in Article 141.
 - 16. Puisne Judges of a High Court.
 - 17. Chief Judge of a Chief Court.
- 18. Military Officers above the rank of Major-General.
- 19. Additional Members of the Council of the Governor-General for making Laws and Regulations; Chairman of the Railway Board.
- 20. Bishops of Lahore, Rangoon, Nagpur and Lucknow.
- 21. Secretaries to the Government of India, Joint Secretary to the Government of India in the Public Works Department; and Members of the Railway Board.
- 22. Commissioner in Sind.
 23. Judges of a Chief Court, Recorder of Rangoon and Judicial Commissioners, Burma.
- 24. Chief Secretaries to the Governments of Madras and Bombay; Chief Commissioner of Delhi.

- 25 Major-Generals, Members of a Board of Revenue, Commissioners of Revenue and Customs, Bombay; Financial Commissioners, Punjab and Burna; the Inspector-General of Irrigation; and the Director-Genoral, Indian Medical Service.
- 26. Judicial Commissioners, including Additional Judicial Commissioners of Oudh, the Central Provinces, and Sind.
- 27. Additional Members of the Councils of the Governors of Madras, Bombay and Bengal for making Laws and Regulations, Members of the Legislative Council of a Lieutenant-Governor.
 - 28. Vice-Chancellors of Indian Universities.

FIRST CLASS.

- 29. Members of the Indian Civil Service of 30 years' standing.
 - 30. Advocate-General, Calcutta.
 - 31. Comptroller and Auditor-General,
- 32. Commissioners of Divisions, the Superintendent of Port Blair, and Residents, Political Agents, and Superintends drawing Its. 2,000 a month and upwards (not being Collectors or Deputy Commissioners of British Districts), within their respective charges; the Revenue and Judicial Commissioners in Baluchistan, within Baluchistan and the Agency Territories.
- 33. Chief Seceretaries to Local Governments other than those of Madras and Bombay.
- 34. Surveyor-General of India, Directors-General of the Post Office, of Telegraphs in India and of Railways, Chief Engineers, first class, the Directors of Railway Construction and Railway Traffic, Accountants-General, Milltary and Public Works Departments, Director, Royal Indian Marine, and Manager, North-Western Reiller (1998) Railway
- 35 Bishops (not territorial) under license from the Crown.
- 36. Archdeacons of Calcutta. Madras and Bombay.
 - 37. Brigadiers-General : Consuls-General.
- 38. Commissioners of Divisions; the Revenue Judicial Commissioners in Baluchistan has when in Kalat or Las Bela or elsewhere without the limits of his charge.
- 39. Commissioner of Northern India Salt Revenue, Opium Agents, Beneras and Bihar, and Central Criminal Intelligence De-Director, partment.
- 40. Secretaries and Joint Secretaries to Local Governments, and Private Secretary to the Viceroy.

SECOND CLASS.

- 41. Members of the Indian Civil Service of 23 years' standing and Colonels; Consuls.
 42. Military Secretary to the Viceroy.
- 43. Judicial Commissioners of the Hyderabad Districts and Baluchistan; the Assigned Superintendent of Port Blair; Residents, Political Agents, and Superintendents drawing Rs. 2,000 a month and upwards (not being Col-Blair: Residents, lectors or Deputy Commissioners of British Districts).
- 44. Inspector-General of Forests in India, Director of the Geological Survey, and Director-General of Education in India; Sanitary Commissioner with the Government of India.

- 45. Standing Counsel to the Government of India.
- 46. Directors of Public Instruction. Inspectors-General of Police and Prisons under Local Governments, and Accountants-General.
- 47. Survey Commissioner and Director of Land Records and Agriculture, Bombay; Com-missioners of Settlements; and Controllers of Military Accounts.
 48. Chief or Senior Civil Secertary to a Local

Administration.

- 49. Chief Engineers, second and third classes; Deputy Surveyor-General; Deputy Director-General of Telegraphs in India, and Director-in-Chief, Indo-European Telegraph Department, and Secretary to the Railway Board.
- 50. Divisional, and District and Sessions Judges, Collectors and Magistrates of Districts; Deputy Commissioners of Districts; Deputy Superintendent of Port Blair; and the Chief Officer of each Presidency Municipality; within their respective charges; Officers in charge of Zhob, Quetta-Pishin, and Thal-Chotiali Districts throughout their respective charges.

51. Archdeacons of Lahore, Lucknow, Ran-

goon, and Nagpur.

52. Deputy Secretaries to the Government of India and Director-General of Commercial

intelligence.
53. The Senior Chaplains of the Church of

54. Remembrancers of Legal Affairs and Government Advocates under Local Governments; Chief Conservators of Forests.

55. Officers in the First Class Graded List of Civil Offices not reserved for Members of the Indian Civil Service; Controller of Printing and Stationery.

THIRD CLASS.

56. Members of the Indian Civil Service of 18 years' standing and Lieutenant-Colonels. 57. The Deputy Director, Royal Indian Marine.

58. The Assistant Director, Royal Indian Marine.

59. Commanders and Inspectors of Machinery, Royal Indian Marine.

- 60. Political Agents and Superintendents drawing less than Rs. 2,000 a month (not being Collectors or Deputy Commissioners of British Districts) within their own charges; Political Agent in Kalat; District Judges in Lower Burma and Judge of the Small Cause Court, Rangoon, within their respective charges.
- 61. Secretaries to Local Administrations other than those already specified; the First Assistant to the Agent to the Governor-General in Baluchistan; First Assistants to the Residents at Hyderabad and Mysore, and to the Agents to the Governor-General in Rajputana and Central
- 62. Consulting Engineers to the Government of India for Railways; Consulting Architect and Chief Inspector of Explosives.

63. Private Secretaries to Governors. Military Secretaries to Governors.
 Administrators-General.

66. Sanitary Commissioners under Postmasters - General; Governments; Postmasters - General; the Comptroller, Post Office; and Conservators of

67. Directors of Public Instruction, Inspectors-General of Police and Prisons under Local Administrations, Comptrollers and Deputy Auditors-General, and Deputy Director, Central

Criminal Intelligence Department. 68. Managers of State Railways other than the North-Western Railway; Chairmen of the

Port Trust, Bombay, and Rangoon; and Chairman of the Port Trust, Calcutta.

69. Vice-Chairman of the Port Calcutta; Directors of Traffic and Construction, Indian Telegraph Department; Directors of Telegraphs, first class; Examiners of Accounts, Public Works Department, first class; Officers of the Superior Revenue Establishment of State Railways, first class, first grade; Superintending Engineers, Public Works Department, first class: Superintendents of the Survey of India Department, first grade.

70. Inspectors-General of Registration and Directors of Land Records and Agriculture, and Excise Commissioners under Local Governments.

71. Seinor Chaplains those other than already specified.

72. Sheriffs within their own charges.

73. Officers in the Second Class Graded List of Civil Offices not reserved for Members of the Indian Civil Service; Political Agents and Superintendents in Baluchistan drawing less than Rs. 2,000, and Political Agents in Haraoti and Tonk, when outside their respective charges (unless their Army rank or standing in the Civil Service gives them a higher place). Actuary to the Government of India.

FOURTH CLASS.

74. Members of the Indian Civil Service of 12 years' standing, and Majors; Vice-Consuls; District Judges in Lower Burma and Judge of Small Cause Court, Rangoon (outside their respective charges).

75. Lieutenants of over 8 years standing, and Chief Engineers of the Royal Indian Marine; Chief Accountant, Office of the Director of

Ordnance Factories.

Government Solicitors.

77. Inspectors-General of Registration, Sanitary Commissioners, and Directors of Land Records and Agriculture under Local Administrations; Civil Engineer, Adviser to the Director of Ordnance Factories.

78. Officers in the Third Class Graded List of Civil Offices not reserved for Members of the Indian Civil Service; Deputy Accountant, office of the Director of Ordnance Factories.

The entries in the above table apply exclusively to the persons entered therein, and, while regulating their relative precedence with each other, do not apply to the non-official community resident in India, the members of which shall take their place according to usage.

Officers in the above table will take precedence in order of the numbers of the entries. Those included in one number will take precedence inter se according to the date of entry into that number.

When an officer holds more than one position in the table, he will be entitled to the highest under Local position accorded to him.

Officers who are temporarily officiating in any number in the table will rank in that number below permanent incumbents.

All officers not mentioned in the above table, whose rank is regulated by comparison with rank in the army, to have the same rank with reference to civil servants as is enjoyed by Military Officers of equal grades.

All other persons who may not be mentioned in this table, to take rank according to general usage, which is to be explained and determined by the Governor-General in Council in case any question shall arise.

Nothing in the foregoing Rules to disturb the existing practice relating to precedence at Native Courts, or on occasions of intercourse with Natives, and the Governor-General in Council to be empowered to make rules for such occasions in case any dispute shall arise.

All ladies to take place according to the rank

herein assigned to their respective husbands, with the exception of wives of Peers, and of ladies having precedence in England inde-pendently of their husbands, and who are not in rank below the daughters of Barons, such ladies to take place according to their several ranks, with reference to such precedence in England, immediately after the wives of Members of the Council of the Governor-General.

Given at Our Court at Windsor this tenth day of December, in the year of Our Lord One thousand eight hundred and ninety-eight, and in the sixty-second year of Our Reign.

> By Her Majesty's Command. (Signed) GEORGE HAMILTON.

Supplementary Graded List of Civil Offices not Reserved for Members of the Indian Civil Service Prepared Under the orders of the Governor-General in Council.

*FIRST CLASS-(No. 55 of the Warrant).

Assay Master of the Mint, Calcutta and

Bombay. Chief Judges of Presidency Courts of Small Causes.

Commissioners of Police, Calcutta, Madras, Bombay, and Rangoon.

Controller of Printing and Stationery.

Deputy Comptroller-General. Director-General of Archæology.

Director-General of Statistics.

Director of the Botanical Survey of India. Inspector-General of Agriculture in India. Masters of the Mint, Calcutta and Bombay.

Meteorological Reporter to the Government of India.

Superintendent of Revenue Survey, Madras. Superintendent, Trigonometrical Surveys.

*SECOND CLASS-(No. 73 of the Warrant). Adviser on Chinese Affairs in Burma.

Agent General in India for the British Protectorates in Africa under the Administration of the Foreign Office.

Chief Collector of Customs, Burma. Chief Constructor of the Royal Indian Marine

Dockyard at Bombay

Chief Inspector of Mines in India. Chief Presidency Magistrates.

Chief Superintendents of the Telegraph Department.

Collector of Customs and Salt Revenue, Sind.

Collectors and Magistrates of Districts and Deputy Commissioners of Districts and of Settlements.

Conservators of Forests, 2nd and Grades.

Deputy Accountants-General under Local Governments.

Deputy Directors of Telegraphs. Deputy Inspectors-General of Police.

Deputy Superintendent of Port Blair.

Directors of the Persian Gulf Section, and of the Persian Section of the Indo-European Telegraph Department.

Director of Telegraphs, 2nd, 3rd and 4th Classes.

Divisional and District and Sessions Judges. Examiners of Accounts, P Department, 2nd and 3rd Classes. Public Works

Government Astronomer, Madras. Government Emigration Agents at Calcutta for British Guiana and Natal, and for Trinidad, Fiji, Jamaica, and Mauritius.

Imperial Bacteriologist.

Inspector of Mines to the Government of India.

Librarian, Imperial Library.

Officers in charge of the Records of the Government of India.

Officers of the Indian Educational Service, and of the graded Educational Service drawing Rs. 1,250 a month and upwards.

Officers of the Superior Revenue Establishment of State Railways, 1st Class, 2nd and 3rd Grades.

Principal of the Mayo College at Ajmere. Principal of the Rajkumar College at Rajkot Reporter on Economic Products.

Superintendent of the Royal Botanical Gardens, Calcutta.

Superintendents, Geological Survey of India. Superintendents of Revenue Survey and Assessment, Bombay.

Superintendents of the Survey of India Department, 2nd Grade. Superintending Engine Engineers, Public Works Department, 2nd and 3rd Classes

Under Secretaries to the Government of India. *THIRD CLASS-(No. 78 of the Warrant)

Agricultural Chemist. Assistant Directors of Dairy Farms. Assistant Inspector-General of Forests.

Assistant Secretaries to the Government o India. Chief Chemical Examiner, Central Chemica

Laboratory, Nainital. Collector of Stamp Revenue, Superintendent of Excise Revenue, and Deputy Collector of Land Revenue, Calcutta.

Commander of the steamer employed in the Persian Gulf Section of the Indo-European Telegraph Department. Constructors of the Royal Indain Marine

The entries in each class are arranged in alphabetical order.

Dockyards at Bombay and Kidderpore.

Deputy Administrator-General, Bengal. Deputy Collector of Salt Revenue, Bombay. Deputy Commissioner of Northern India Salt Revenue.

Deputy Commissioners of Police, Calcutta and Bombay.

Deputy Commissioners of Salt. Abkari and

Customs Department, Madras. Deputy Conservators of Forests drawing Rs.

800 a month and upwards. Deputy Lirector of Land Records and Agri-

culture, Madras and Burma. Deputy Director of the Imperial Forest

School, Dehra Dun. Deputy Directors of Revenue Settlements and

Deputy Superintendents of Revenue Surveys, Madras. Deputy Postmasters-General of the 1st, 2nd

and 3rd grades. Deputy Superintendents, Geological Survey

of India. Deputy Superintendents, Survey of India

Department. District Superintendents of Police drawing Rs, 800 a month and upwards.

Engineer and Electrician of the Persian Gulf Section of the Indo-European Telegraph Department.

Examiners Public Works of Accounts. Department, 4th class, 1st and 2nd grades.

The following is the official table of salutes in Indian Territories—a term which includes

Public Works De-Executive Engineers, partment, 1st and 2nd Grades.

Inspector-General of Railway Mail Service. Judge of the City Civil Court, Madras.

Judges of Presidency Courts of Small Causes, and First Judge of the Small Cause Court. Rangoon.

Manager of the Cordite Factory, Aruvankad. Officers of the Indian Educational Service and of the graded Educational Service, drawing less than Rs. 1,250 a month, but more than Rs. 1,000 a month.

Officers of the Superior Revenue Establishments of the State Railways, Second Class, 1st and 2nd Grades.

Palæontologist, Geological Survey of India. Presidency Magistrates.

Protector of Emigrants and Superintendent of Emigration, Calcutta.

Public Prosecutor in Sind.

Registrars to the High Courts and to the Chief Court, Punjab.

Sub-Deputy Opium Agents drawing Rs. 800 month and upwards.
Superintendent of the Indian Museum.

Superintendent of Land Records and Agriculture in Sind.

Superintendents of Stamps and Stationery. Superintendents. Telegraph Department. 1st and 2nd Grades.

SALUTES IN INDIA.

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		Persons.				Vo. of Juns.	
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Members of Council	15
Plenipotentiaries and Envoys	15
LieutGovernors of His Majesty's	
Colonies	15
	10
Vice-Admirals, LieutGenerals, or their	
Flags	13
Agents to the Viceroy and Governor-	
General	13
Agent to the Governor of Bombay in	
Kathiawar	13
Residents	13
Chief Commissioners of Provinces, and	10
Commissioner of Sind	13
Rear-Admirals & Major-Generals, or	
their Flags	11
Political Agents and Charges d'Affaires	. 11
Commodores of the first-class, and Bri-	
Radier-Generals	9
The Portuguese Governor of Damaun	ğ
The Governor of Diu	_
Return salutes to Foreign Men-of-war	- 9
Return salutes to Captains of the Navy,	• -
and Naval Officers of inferior rank	
	1
Salutos to Chine-	

Salutes to Chiefs.

Salutes of 21 guns. Baroda. The Maharaja (Gaekwar) o Hyderabad. The Nizam of. Mysore. The Maharaja of.

Salutes of 19 guns.

Bhopal. The Begam (or Nawab) of. Buopai. The Begam (or Nawao) or. Gwalior. The Maharaja (Sindhia) of. Indore. The Maharaja (Holkar) of. Jammu and Kashmir. The Maharaja Kalat. The Khan (Wail) of. Kolhapur. The Maharaja of. Mewar (Udaipur). The Maharana of. Travancore. The Maharaja of.

Salutes of 17 guns.

Bahawalpur. The Nawab of. Bharatpur. The Maharaja of. Bikaner. The Maharaja of. Bundi. The Mahara Raja of. Cochin. The Raja of. Cutch. The Rao of. Jaipur. The Maharaja of. Karauli. The Maharaja of. The Maharao of. Kotah. Marwar (Jodhpur). The Maharaja of. Patiala. The Maharaja of Rewa. The Maharaja of Tonk. The Nawab of. The Maharaja of.

Salutes of 15 guns.

Alwar. The Maharaja of. Alwar. The Maharawal of. Banswara. The Maharaja of. Datia. The Maharaja of. Dewas (Senior Branch). The Raja of. Dewas (Junior Branch). The Raja of. Dhar. The Raja of. Dholpur. The Maharaj Rana of. Dungarpur. The Maharawal of. Idar. The Maharaja of. Jaisalmer. The Maharawal of. Khairpur. The Mir of. Kishangarh. The Maharaja of. Orchha. The Maharaja of. Partabgarh. The Maharawat of. Sikkim. The Maharaja of. Sirohi. The Maharao of.

Salutes of 13 guns.

The Raja of. Cooch Behar. The Maharaja of. Jaora. The Nawab of. Rampur. The Nawab of. Tippera. The Raja of.

Salutes of 11 guns.

Ajalgarh. The Maharaja of.
Baoni. The Nawab of.
Bhavnagar. The Thakur Sahib of.
Bijawar. The Maharaja of.
Cambay. The Nawab of.
Chamba. The Raja of.
Charkhart. The Maharaja of.
Charkhartur. The Raja of.
Dhrangadhra. The Raja Sahib of.
Faridkot. The Raja of. Faridkot. The Raja of.
Gondal. The Thakur Sahib of.
Janjira. The Nawab of.
Jhabua. The Raja of. Jhalawar. The Raj-Rana of. Jind. The Maharaja of. Junagadh (or Junagarh). The Na Kahlur (Bilaspur). The Raja of. Kapurthala. The Maharaja of. Mandi. The Raja of. Manipur. The Raja of. Morvi. The Thakur Sahib of. Nabha. The Maharaja of. The Nawab of. Naona. The manaraja of.
Narsinghgarh. The Raja of.
Navanagar (or Nawanagar). The Jam of.
Palanpur. The Diwan of.
Panna. The Maharaja of.
Porbandar. The Rana of.
Pudukkottai (or Puddukottai). The Raja of.
Radhanpur. The Nawab of.

Rajgarh. The Raja of. Rajpipla. The Raja of. saliana. The Raja of. Samthar. The Raja of. Ratlam. The Raja of. Samthar. The Raja of. Sirmur (Nahan). The Raja of. Sitamau. The Raja of. Suket. The Raja of. Tehri (Garhwal). The Raja of.

Salutes of 9 guns.

Ali Rajpur. The Raja of. Balasinor (or Vadasinor). The Nawab (Babi) o Bansda. The Raja of. Baraundha. The Raja of. Bariya. The Raja of. Barwapi. The Rana of. Barwani. The Rana of.
Chhota Udepur (or Mahun). The Raja of.
Dharampur. The Raja of.
Dhroi. The Thakur Sahib of.
Fadthii (Shukra). The Sultan of.
Hsipaw (or Thibaw). The Sawbwa of.
Karond (Kalahandi). The Raja of. Kengtung (or Kyaington). The Sawbwa of. Khilchipur. The Rao of. Kishn and Socotra. The Sultan of. Lahej (or Al Hauta). The Sultan of. Limri. The Thakur Sahib of. Limn. The Inskir saint of.
Lunawara (or Lunayada). The Raja of.
Maihar. The Raja of.
Maler Kotla. The Nawab of.
Möng Nai. The Sawbwa of.
Nagod. The Raja of.
Palitana. The Thakur Sahib of. Palitana. The Thakur Sahib of.
Rajkot. The Thakur Sahib of.
Sachin. The Nawab of.
Savantvadi. The Sar Desai of.
Shehr and Mokalla. The Suitan of.
Sunth. The Raja of. Vankaner (or Wankaner). The Raj Sahib of, Wadhwan (or Vadwan). The Thakur Sahib of, Yawnghwe (or Nyaungywe). The Sawbwa of,

Personal Salutes.

Salutes of 21 guns.

Gwalior. Honorary Major-General His High ness Maharaja Sir Madho Rao Sindhia Baha dur, G.C.S.I., G.C.V.O., A.D.C., LL.D., Maharaja of.

Jaipur. Honorary Major-General His High-ness Maharajadhiraja Sir Sawai Madio Singh Bahadur, G.C.S.I., G.C.I.E., G.C.V.O., LL.D., Maharaja of.

Kolhapur. His Highness Sir Shahu Chhetrapati Maharaj, G.C.S.I., G.C.I.E., G.C.V.O., LL.D., Maharaja of.

Mewar (Udalpur). His Highness Maharaja-dhiraja Maharana Sir Fatch Singh Bahadur, G.C.S.I., G.C.I.E., Maharana of.

Travancore. His Highness Srl Maharaja Raja Sir Bala Rama Varma Bahadur, G.C.S.L., G.C.I.E., Maharaja of.

Salutes of 19 guns.

Varmah, O.C.S.I., G.C.I.E., Raja of.
Mysore. Her Highness Maharani Kempa
Nanjammani Avaru Vanivilas, C.I., of.
Nepal. Honorary Major-General His Excellency Maharaja Sir Chandra Shumshere
Jung, Bahadur Rana, G.C.B., G.C.S.I., G.O.V.O.
D.C.L., Prime Minister, Marshal of.

Salutes of 17 guns.

Jodhpur. Honorary Major-General His Highness Maharaja Bahadur Sir Pratab Singh, G.O.S.J., G.C.V.O., K.O.B., A.D.G., Regent of. Orchha. His Highness Maharaja Mahindra Sawai Sir Partap Singh Bahadur, G.O.S.J., G.O.L.R., Maharaja of.

Salute of 13 guns.

Palanpur. His Highness Nawab Sir Sher Muhammad Khan Zorawar Khan, G.O.I.E., Diwan of.

Salutes of 11 guns.

Barwani. His Highness Rana Ranjit Singh of Bhor. His Highness Shankar Rav Chimnaji, Pant Sachiv of. Lahei (or Al Hauta). His Highness Sir Ahmad

Lahej (or Al Hauta). His Highness Sir Ahmad Fadthl, K.C.S.I., Sultan of. Maler Kotla. His Highness Ahmud Ali Khan

Bahadur, Nawab of. Shehr and Mokalla. His Highness Sultan Ghallb-bin-Awadth Al-Kayti, Sultan of.

Salutes of 9 guns.

Kanker. Maharajadhiraja Komal Deo, of. Las Bela. Mir Kamal Khan, Jam of. Loharu. Nawab Sir Amir-ud-din Ahmad

Khan Bahadur, K.O.I.E., of. Mudhol. Meherban Malojirao Vyankatrav Raje Ghorpade, alias Nana Saheb, of.

Local Salutes.

Salutes of 21 guns.

Bhopal. The Begam (or Nawab) of. Gwallor. The Maharaja (Sindhia) of. Indore. The Maharaja (Holkar) of. Jammu and Kashmir. The Maharaja of. Salutes of 5 guns.

The Sheikh of Koweit.

The Sheikh of Bahrein. The Sheikh of Abu Thabi.

Salutes of 3 guns.

The Sheikh of Debai.

The Sheikh of Shargah.

The Sheikh of Ajman. The Sheikh of Um-el-Kawain.

The Sheikh of Ras-al-Kheima.

Local Personal Salutes.

These are fired on the termination of an official visit.

Salute of 13 guns.

His Excellency the Govr. of Bushire. Salutes of 12 guns.

The Sheikh of Mohammerah.

The Sheikh of Koweit.

Salute of 11 guns.

The Sheikh of Bahrein.

Salutes of 5 guns.

Eldest son of the Sheikh of Mohammerah.

Eldest son of the Sheikh of Koweit.

Salutes of 5 guns.

The Govr. of Mohammerah. The Govr. of Bunder Abbas.

The Govr. of Lingah.

Salute of 3 guns.

Eldest son of the Sheikh of Bahrein.

SALARIES OF CHIEF OFFICERS.

The following are the tables of salaries sanctioned for the Chief Officers of the Administration of India. The tables are liable to variation, and it should be noted that the pay of members of the Indian Civil Service is subject to a deduction of 4 per cent. for subscription towards annuity.

							Pay 1	er Annum
Viceroy and Governor-General								Rs.
Private Secretary to Viceroy								2,50,800
Military Secretary to Viceroy	• •							24,000
Military Secretary and Aide-de-Camp to V	icerov	• •						18,000
						• •	• •	
Commander-in-Chief of the Forces in Indi			• •	• •	• •	• •	• •	14,400
		•••	••	• •	••	• •	••	1,00,000
	. щ лиц	124	• •		• •	• •	• •	18,000
President, Railway Board	uncu	• •	• •					80,000
2 Members, Railway Board	• •	• •					60,000	or 72,000
Secretaries to the Comment	• •	••	• •					48,000
Secretaries to the Government of India in tive Departments	n the A	lrmv a	nd Pu	blic Wo	orks an	d T	egisla.	10,000
tive Departments								42,000
Secretaries to the Government of India in	the R	inance	Foreig	m Hor	ma Ra	van'	na and	*2,000
Agriculture, and Commerce and Indu	stry D	mortm	onto	54, 1401			ne and	in
	ho Td	opai um	The	4	• •	• •	• •	48,000
	no Eu	icamon	Depar	tment	• •	••	• •	36,000
Comptroller and Auditor-General	"	,	,	• •		• •	• •	30,000
Z Accountants-General Class T	• •	• •	• •					42,000
	• •	• •	• •	• •				33,000
, <u>Z</u> , , , , , , , , , , , , , , , , , , ,			• •	••				30,000
*								
1 Commissioner of Northern India Salt R	evenue				••	• •	• •	27,000
I Director-General of Posts and Telegran	hs			• •	• •	••		30,000
4 Postmasters-General	٠.	• •	• •	• •	• •	• •	36,000	
6	••	••	• •				21,000	to 24,000
1 Director, Geological Survey of India	••	• •	• •	• •	••		18,000	to 21,000
Danuter Constants of the Control of India							,	24,000
Deputy Secretaries to the Government or	f India	in the	Finan	ce and	Foreig		epart-	24,000
ments				oo unu	LOLDING	ц Д	chare-	
•	• •	••	••	••	• •	••	••	27,000

Pay per Annum. Rs.

											Ks.
Deputy Secretaries to partments						•			De-		24.000
Superintendent of Por	t Blair	••	••	••	• • •	••	• •	∴ 8	0.000	to	36,000
1 Chief Commissioner	of Delhi	••			• •	••			•••		36,000
1 Director, Criminal I	ntelligence		• •			• •	• •	••	- <i>::</i> -		36,000
1 Deputy Director, Cr		-	• ••	• •	• •	••	• •	., 1	8,000	to	24,000
Inspector-General of F			• • •	• •	• •	••.	••	••	••		31,800
Surveyor-General, Sur 1 Chief Inspector of M			• •	••	• •	••	• •	• •	• •		36,000
1 Inspector-General of			Ha.	• • •	• • •	••	• •	,	1,000	to	24,000 27,000
1 Director-General, In	dian Medi	cal Servi	ce	::	::		::	2			36,000
1 Sanitary Commission						••					24,000
1 Director-General of	Archælogy	in Indi	1			::	• •		::		20,400
Administrator-Gene			••		••	•••			•••		26,400
1 Director-General of	Commercia	l Intelli	gence								24,000
1	Indian Ob	servator				••	••			to	24,000
Controller of Stationer	y and Prin	ting		••	••	• •	• •	18	3,000		27,000
Governors of Madras,					••-	• •	••	• •	• •	1	,20,00 0
Private Secretaries to	Governors	of Madi	as, B	ombay,	and B	engal	• •	• •	••		18,000
Surgeons to Governors Military Secretary and	ardandara	ome to	ay, ar	na Beng	Mode	a Romba	· ·	d Hana	٠		12,000
			aure	IHOIP O							12,000
Bishop of Calcutta Bishop of Madras		••	••	• • •	••		• •	• •	••		45,980 25,600
Bishop of Bombay		• • •	••	• • • •			• •	• •	• •		25,600
Chief Justice of Benga					• • •						72,000
Chief Justices of Madr	as. Bomba	v. and t	he No	orth-We	stern I	Provinces					60,000
Puisne Judges of the	High Cour	ts of Ca	lcutte	(15), I	fadras	(7), Bomi	oay (7), and	the		• •
North-Western Pi	rovinces (6)	(• •	• •	• •	••	• •	• •	• •		48,000
Chief Judge of the Chi	ef Court, I	Punjab			٠	••					48,000
			. ::.	';		4 mil. 4 T-	·	• •	• •		48,000
Judges of the Chief Co		D (D), 81	ia Bu	rma (4)	, excep	t Chief Ju	ages	• •	• •		42,000
Political Residents, 1s			• •	• • • •	••		• •	••	••		48,000
	id class	• •	••	••	••		• •	••	i in		33,000 28.800
Officers on time scale		••	• •	••	••	••	• •	•••	,700	v	40,000

Provincial Salaries.

N.B.—Acting and other allowances are not included in the salaries shown.

Bengal.

3										64,000
ĭ	Member of the Board of Revenue					• •	• •			45,000
5	Commissioners of Divisions .			••	••			• •	• •	35,000
ĭ	Chief Secretary to Government .					• •				40,000
3	Secretaries to Government .					• •	• •			38,000
	Under Secretaries to Government				·					12,000
0										27,000
Ţ	Excise Commissioner		••	• •			••			42,000
1	Chairman of Corporation of Calcu	icte.	••	• •	• •	• •	• •	• •	••	
1	Deputy Ditto	• •		• •	• •	• •	• •	• •		18,000
- 11	Collectors of Customs, Calcutta		• •	• •	• •	••	• •	• •	• •	27,000
12	Magistrates and Collectors, 1st	grade								27,000
13	2nd	g	••							21,600
	" grd	"								18,000
14	Joint Magistrates and Deputy Co	llanta	ra 1at	orode						10,800
17	Joint magistrates and Debuth co	псси	2nd	Branc	••	••				8,400
17	19 39 99	12	znu	**	• •	••	••	• •		
_	Assistant Magistrates and Collecto	TS						• •	4,800 to	0,000
2	District and Sessions Judges, 1st	t grad	le						••	38,000
13	• 9n	d								80,000
										24,000
15	Chief Judge, Presidency Courts of	e amin	П Сопе	200						24,000
1	Chief Judge, Presidency Course of	т оша	u Caus	100	••	• • •	• • •	(12,000,	13,500
4	Judges ;; ;;	**				• •) 15.	bna 008,	16,800
-	_		•-							48,000
1		• •	• •	**	••	••		• • •		60,000
1		• •	• •	• •	• •	• •	••		,400 and	22,500
2		• •	•• .	• • .	• • .	• • •	••	9	n one to	36.000
ī	Inspector-General of Police				• •	• •	••	8	4,000 to	30,000
î					• •	• •	••	2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
-										

							P	ay per
	Bihar	and (Dui cen				•	Rs.
1 Lieutenant Governor	Dillar			-				1 00 000
2 Members of the Board of Reven	ne	• •	• •	::	••		: ::	1,00,000 42,000
1 Chief Secretary to Government			::	::	::		. ::	36,000
2 Secretaries to Government		• •						27,000
3 Under Secretaries to Governmen		• •	• •	••				12,000
5 Commissioners 7 Magistrates and Collectors, 1st		••	• •	••	• •			35,000
		••	••	••	••			27,000 21,600
10 3rd		••		••	::			18,000
10 Joint Magistrates and Deputy C	ollector	s, 1st c	rade		::			10,800
9		2nd	,,	• •				8,400
-Assistant Magistrates and Collect	ors	:-	••	••	••		. 4,800 t	o 6,000
2 District and Sessions Judges, 1s		е	••	••	••			36,000 30,000
	d "		••	::	••	:: :		24,000
1 Inspector-General of Police	"		::	::			. 30.000 t	0 36,000
1 Director of Public Instruction	••		••	••				24,000
	Α.	ssam.						
1 Chief Commissioner	-							E4 000
2 Commissioners	••	••	••	••	••	••	• ••	56,000 35,000
2 Secretaries to Chief Commission	er .	::	::	••	::	:: :	.27,000 an	d 21,600
5 Deputy Commissioners, 1st gra	ıde	••	••	••	::			27,000
6 ,, 2nd ,	,			••				21,600
4 Accietant "	,	• •	• •	• •	• •			18,000
3	,	••	• •	••	• •		• ••	10,800
- • " " Srd '	,	• •	• •	••	••		4,800	→ 6,000
2 Under Secretaries to Chief Com	nissione	r	••	::	••	:: :	4,800	12,000
1 District and Sessions Judge		••		••				24,000
1 Inspector-General of Police 1 Director of Public Instruction	••	• •	••	••	• •			27,000
	••	••	••	••	••	••	. 15,000 t	o 18,000
United :	Provin	ces of	' Agra	and (ludh.			
1 Lieutenant Governor 1 Chief Secretary to Government	• • "	••	••	• •				1,00,000
1 Chief Secretary to Government 2 Members of the Board of Reven	••	••	••	• •	• •			36,000
Z Secretaries to Government		••	••	• •	••	••		42,000
I Secretary to Board of Dammer		::	•.•	::	••	:: • :		nd 22000 20,000
3 Under Secretaries to Governmer 9 Commissioners of Divisions	ıt				::	:: :		12,000
9 Commissioners of Divisions 1 Commissioner for Kumaon	• •	• •	• •		••			35,000
	••	••	• •	••	••	,		30,000
19 Magistrates and Collectors, 1st.	grade	• •	••	••	••	••		o 36,000
			••	• •	••			27,000 22,000
a opus commissioners, 1st gra	de		••		::			22,000
14 Joint Magistrotog 1st		• •	••	••				20,000
O ASSISTANT COmmissioners 1st com	ade.	••	••	••	• •		•	12,000
ant Assistant	Commi	issioner	s. 2nd	grade	::	••		9,600
-Assistant ,, 3 Deputy Commissioners for Kum	1)	••	••	erman.	::	:: :	. 4,800 t	8,460 6,000
1 City Magistrate Luckney		• •			• •	12,000), 12,000 a	nd18.000
1 City Magistrate, Lucknow 1 Superintendent, Dehra Dun		••	• •	••	••	•• •	• •	12,000
		::	• • •		••	••	• •• `	18,000
2 Additional Judicial Commission 2 District and Sessions Judges 1	ers		::		•••	:: :	.34,000 an	48,000
contour bearing budges, 1	st grad	le						36,000
· · · · · · ·	nd "		••	• • •	••			30,000
	th "		::	••	••	•••		27,000
3 , , ,	th ,,	••	• •	:	••	••		22,000
1 Registrar, High Court 1 Inspector-General of Police	••	••	::	::	••	:: :		20,000
1 Director of Public Instruction	••	••	••			:: :	00 000	19,200
THE PARTY AND PROPERTY OF THE PARTY OF THE P	••	••		. • •	• •	••	• ••	24,000
		Punja	ıb.					,
1 Lieutenant Governor 1 Chief Secretary to Government	••						**	
1 Chief Secretary to Government 2 Secretaries to Government	••	• •			••	•		1,00,000
	• •	••	••	••	• •			36,000 18,000

_									Pa	y per
	• •	Punja	bctd	•						num. Rs.
. 2	Under Secretaries to Gove Under Secretary, Police D	rnment	T hee	ngnecto	r-Gene	ral of P	olice	30.0		12,000 36,000
i	Under Secretary, Education	nal Depart	tment		n-uche		once			22,800
2 2	Financial Commissioners Secretaries to Financial Co			••	••	••	•	10.86	 10 and	42,000 18,000
5	Commissioners			• •	• • •	• • •	• • •	10,00	 	33,000
10	Deputy Commissioners, 1s	t grade	• •	••	• •	• •	••	• •	••	27,000
11 13		nd " :d "	::	• • •	••	• •	::	••	• •	21,600 18,000
14	Assistant Commissioners,	lst grade		• • •	••					10,800
15	,, ,,	end ,, erd ,,	• • • • • • • • • • • • • • • • • • • •	••	••	• • •	• •	4,8	to	8,400 6,000
2	Divisional Judges, 1st gra	de	::	::	::	• • • • • • • • • • • • • • • • • • • •	::		••	33,000
3· 5	" " 2nd "	,	• •	. •• `	•••	· • •	••	••	• •	30,000 27,000
-6	,, ,, ard ,		• • • • • • • • • • • • • • • • • • • •	::	::	•			• •	21,600
8	District Judges			••	• •	••	••		••	18,000
1	Registrar of the Chief Cour Legal Remembrancer		• •	••	••	• • •	••		• •	15,000 24,000
i	Inspector-General of Police	· ::	• • • • • • • • • • • • • • • • • • • •	• • •	••	•••	::			36,000
1	Director of Public Instruct		••	••	••	•• .1	• •	18,0	100 to	24,000
٠,	A		Bur	ma.			•			
.1	Lieutenant Governor .	. ,	• •	• •	••	••	• •			,00,000
.1	Chief Secretary to Governi Secretaries	nent	• • •	•••	::		••		•	36,000 21,600
$\tilde{2}$	Under Secretaries	. ::		::		-::				14,400
.1	Assistant Secretary Financial Commissioner Settlement Commissioner		• •	••	• •	••	••		• •	14,000 42,000
Ť	Settlement Commissioner a	nd Directo	or of La	nd Re	cords	••	• •		• •	33,000
1	Secretary to Financial Con	missioner	••	••	• •	• •	••	••	• '	14,800
8	Director of Agriculture . Commissioners of Divisions	• ••	••	::	::	• • •	::		•	18,000 33,000
12	Deputy Commissioners, 1s	t grade	::	::	::	::				27,000
13	., ,, 2n	id ,,		••	• •	•• .	••		•	21,600 18,000
14 11	Assistant , 3r		••	::	••		• • • •		:	12,000
13	,, ,, 2n	ıd "	••	••	••	••	• •		•	8,400
10 52	" " 3r		• • •	::	• • •	• • •	• •	5,4	io to	7,200 6,000
1	Judicial Commissioner .	. "	::		••		• •		•	42,000
2		ade	• •	• •	••	••	• •		•	33,000 27,000
2	" " oa	,,	,	• •	• • •	::	•••			21,600
8	District		••	••	••	• •	• •	••	•	18,000
1	Registrar, Chief Court, Lov Government Advocate	ver Burma	• • •	• •	::	•••	::	18.0	io to	14,400 21,600
1			ntrai			••		.,,-		•
1	Chief Commissioner .									62,000
1	Financial Commissioner .	: ::	::	::		::				42,000
4	Commissioners of Divisions		••	••	••	••		30,000 and	12at	33,000 27,000
10	Deputy Commissioners, 1s	id ,,	• • • • • • • • • • • • • • • • • • • •	••	::	::	• • •		•	21,600
12		d.,,		••	••		••	•• , •	•	18,000 10,800
10	Assistant , 1s		• •	• • •		••	• • •	:	•	8,400
10	" " " Sr		• • • • • • • • • • • • • • • • • • • •	::	::	::		4,8	00 to	6,000
.1	Judicial Commissioner .		• •	••	. ••	••	••	∷36,00	han i	42,000 33.000
2	Additional Judicial Commi Inspector-General of Police		••	• • • • • • • • • • • • • • • • • • • •	••	••	::			21,600
1	Director of Public Instruct				;	••	• •	18,0	00 to	24,000
			Bera	ır.						
1	Commissioner				••		••	∷22,000	iana	33,000
2	District and Sessions Judge	25 t ologa	••	••	• •	::.	::	22,000		22,000
3 2	Deputy Commissioners, 1s	d ,	• • •	••	•		::			20,000 18,000
2	3r	d.,,	••	••	••	••	::			10.800
2	Assistant , 1s 2n		••	••	::	::	::		,	8,400

	M	adras.						Pay per Annun Rs.
Members of Council		••	••		٠.			64,0
First Member, Board of Revenue	• •	• •	• •	••	• •	• •	• •	45,0
Second Member ,,	• •	• •	••	• •	••	• • •	••	42,0 36,0
Fourth Mombon	• • •	••	••	••	• •		• • •	36,0
Chief Secretary to Government				•••	•••		::	45,0
Revenue Secretary to Government	••	••		• •	••	• •		37,
l Secretary to Government		• •	• •		٠			30,0
Private Secretary to Governor	• • •	••	• •	• •	• •	• •		18,0
2 Under Secretaries to Government 1 Secretary to Commissioners of Land	D	• •	• •	• •	••	• •	10 000	12,0
I Secretary to Commissioners of Land I Secretary to the Commissioners of S	elever	lues	• •	• •	••	• •	18,000	to 21,6
District and Sessions Judges		•	••	••	• •	::	24,000	to 36,0
Registrar, High Court	• • • • • • • • • • • • • • • • • • • •	• • •	::	::	::	• • • • • • • • • • • • • • • • • • • •	18,000	to 21,
l Advocate General			• •	••	• •	• •		21,0
I Government Solicitor			••		• •			13,2
Chief Judge, Small Cause Court	• •	• •			٠.			24,0
	• •	• •	••	• •	••	• •	90 000	33,6
Collectors 1st	• •	• •	••	••		• •		to 36,0
	• • •	••	••	••	• •	••	••	27,0
Commissioner of Coorg	• • •	• •	••		• •		21.600	to 24,0
President, Corporation of Madras	• • • • • • • • • • • • • • • • • • • •		::		•••	`::	21,000	24,0
Collectors, 3rd grade		::	-:-	::	::	• • • • • • • • • • • • • • • • • • • •	::	21,6
Sub-Collectors and Joint Magistrates	8, 1st	grade		••			• • • • • • • • • • • • • • • • • • • •	14,4
" "	2nd	,,	••	• •	٠.			10,8
Assistant Collectors and Magistrates	3rd	"	••	• •	• •	• •	4 000	8,4
Director of Public Instruction		••	• •	••	••	• •	4,800	to 6,0
	• •	••	••	••	••	• •	24,000	to 30,6
	Bo	mbay.					•	
Members of Council		-						
Chief Connetons to Communication	••	••	• •	••	• •			64,0
Secretary to Government	• • •	• •	• •	••	• •	• •	• •	45,0 37,5 30,0
L ,,		• • •	••	• • • • • • • • • • • • • • • • • • • •	• • •	• •	••	30,0
Private Secretary to Governor		::	::	::	•	• • •	::	18,0
Under Secretaries to Government					• • •			15,0
		• •			• •		21,600	to 24.0
Inspector-General of Police Commissioners of Divisions	• •	• •	• •	• •	٠.		30,000	to 36.6
1 Commissioner in Sind	• •	• •	• •	••	• •		36,000 s	and 42.0
1 Municipal Commissioner Rombert	• • • • • • • • • • • • • • • • • • • •	• •	••	•• *	• •	• •	• •	45,0
o penior confectors	::	• • •	• • • • • • • • • • • • • • • • • • • •	••	••	• •	• •	30,0 27,9
5 Junior 5 Assistant Collectors 104	•	• • • • • • • • • • • • • • • • • • • •	::	• • • • • • • • • • • • • • • • • • • •	::	••	••	21,6
o month contectors, 18t grade					• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	::	14,4
9 " " 200 "								10,8
- " " 4th " ··	• • •	• ••.		••				8,4
1 Collector in Sind ""	• • •	• •	••	• •	• •	٠.		to 6.0
2. Deputy Commission	•••	••	••	• •	• •	• •		. 21,6
			• • •	••	••	••		18,0
			••	::	::	• •		13,2 36,0
1 Additional Judicial Commissioner in 2 District and Sessions Judges—1st	1 Sind	••	::	::	• • •	::		33,0
	grade	••	••		• • • • • • • • • • • • • • • • • • • •			30,0
	**	. ••	••	••	••			27.9
	Court.	٠	••	••	••	• •	20,400	21,6
1 Administrator General and Official 1 Registrar, High Court	Truste	е ::	::	••	• •	• • •	20,400	to 24,0
1 Registrar, High Court 1 Chief Judge, Small Cause Court 1 Remembrancer of Legal Affairs 1 Government Solicitor			::	••	••	• •	24,000	20,0
1 Remembrancer of Legal Again.	•		••	::	• • • • • • • • • • • • • • • • • • • •	• • •		20,4
1 Government Solicitor		• • •		••	• • • • • • • • • • • • • • • • • • • •	::		30.0
1 Advocate General	• •		••	• •	••	•		24,0 30,0 30,0 24,0
	ar		• •	• •	• •	:.		24.0
	î ::			••	• •	• •	• •	00,0
3 - change rescuto, 180 Blade	٠		• • • • • • • • • • • • • • • • • • • •	••	••	••		27,0
2 " " 2nd "					• •	••		21,6
17 Assistant Political A-			• ::	• • •	••	••	••	18,0
7 Rrd " **	scale o	f pay		::	::		6.000	14,4 tx, 14,4

Indian Orders

The Star of India.

The Order of the Star of India was instituted by Queen Victoria in 1861, and enlarged in 1866, 1876, 1897, 1902, and 1911, and the dignity of Knight Grand Commander may be conferred on Princes or Chiefs of India, or upon British subjects for important and loyal service rendered to the Indian Empire; the second and third classes for services in the Indian Empire of not less than thirty years in the department of the Secretary of State for India. It consists of the Sovereign, a Grand Master (the Viceroy of India), the first class of forty-four Knights Grand Commanders (22 British and 22 Indian), the second class of one hundred Knights Commanders, and the third class of two hundred Companions, exclu-sive of Extra and Honorary Members, as well as

sive of Extra and Honorary Members, as well as certain additional Knights and Companions.

The Insignia are (i) the Collar of gold, composed of the lotus of India, of palm branches tied together in satire, of the united red and white rose, and in the centre an Imperial Crown; white rose, and in the centre an imperial crown; all enamelied in their proper colours and linked together by gold chains. (ii) The Star of a Knight Grand Commander is composed of rays of gold issuing from a centre, having thereon a star of five points in diamonds resting upon a star of five points in diamonds resting upon a light blue enamelled circular riband, tied at the ends and inscribed with the motto of the Order, Heaven's Light our Guide, also in diamonds. That of a Knight Commander is somewhat different, and is described below. (iii) The Badge, an onyx cameo having Her Majesty Queen Victoria's Royal Effigy thereon, set in a perforated and ornamental oval, containing the motto of the Order surmounted by a star of five points, all in diamonds. (iv) The Mantle of light blue satin lined with white, and fastened with a cordon of white silk with blue and silver tassels. On the left side a representation of the Star of the Order.

The ribbon of the Order (four inches wide for Knights Grand Commanders) is sky-blue, having a narrow white stripe towards either edge, and is worn from the right shoulder to the left side. A Knight Commander wears (a) around his neck a ribbon two inches in width, of the same colours and pattern as a Knight Grand Commander, and pendent therefrom a badge of a smaller size, (b) on his left breast a Star composed of rays of silver issuing from a gold centre, having thereon a silver star of five points resting upon a light blue enamelled circular ribbon, tied at the ends, inscribed with the motto of the Order in diamonds. A Companion wears from his left breast a badge of the same form as appointed for a Knight Commander, but of a smaller size pendent to a like ribbon of the breadth of one and a half inches. All Insignia are returnable at death to the Central Chancery, or if the recipient was resident in India, to the Secretary of the Order at Calcutta.

Sovereign of the Order:-H. I. M. The King.

Grand Master of the Order :- The Viceroy for the time being, Baron Hardinge of Penshurst.

Honorary Knights Grand Commanders (G. C. S. I.) The Zil-es-Sultan of Persia

Prince Louis d'Arenberg

Extra Knights Grand Commanders (G. C. S. I.)

H. M. the Queen

H. R. H. The Duke of Connaught

Knights Grand Commanders (G. C. S. 1.)

H. H. the Gackwar of Baroda

H. H. the Maharana of Udaipur H. H. the Maharajah of Jaipur

H. H. the Maharaja of Travancore

The Marquis of Lansdowne

Baron Reay H. H. the Maharaja of Jammu and Kashmir

Viscount Cross The Earl of Elgin

H. H. the Maharaja of Kohlapur

H. H. the Maharaja of Gwalior

Lord Harris

H. H. the Maharaja of Rewa

Baron Macdonnell

H. H. the Maharaja of Idar Earl Curzon of Keddleston

Baron Sandhurst

Lord George Hamilton H. H. the Raja of Cochin

Baron Ampthill Maharaja Sir Chandra Shamshere Jung of Nepa H. H. the Maharaja of Orchha

H. H. the Maharaja of Mysore

Field-Marshal Viscount Kitchener

H. H. the Begum of Bhopal

Sir Steuart Bayley

Sir Dennis Fitz-Patrick Sir Dighton Probyn

Baron Sydenham

Sir Arthur Lawley

Sir John Hewett

H. H. the Maharaja of Bikaner

H. H. Maha Rao of Kotah

General Sir O'Moore Creagh

H. H. the Raja of Kapurthaia H. H. the Nizam of Hyderabad

H. H. the Aga Khan

H. H. the Nawab of Tonk.

Knights Commanders (K. C. S. I.)

The Earl of Cromer

Sir Joseph West Ridgeway

Sir Theodore Cracraft Hope

Sir William Chichele Plowden Sir James Broadwood Lyall

Sir Charles Haukes Tod Crosthwaite Sir David Miller Barbour

Sir Andrew Richard Scoble

Sir Phillip Perceval Hutchins

Sir Henry Edward Stokes Sir Henry Mortimer Durand

Maj.-Gen. Sir Oliver Richardson Newmarch

Sir Frederick William Richards Fryer

H. H. Maharao of Sirohi

Sir Courtenay Peregrine Ilbert Lieut.-Col. Sir George Scott Robertson

Gen. Sir Henry Brackenbury Sir William Erskine Ward Brig. Surg.-Lieut.-Col. Sir Alfred Swaige Lethbridge

H. H. Maharao of Bundi

Sir Edward Charles Buck Sir William Mackworth Young

Sir Charles James Lyall

Sir Robert Joseph Crosthwaite Sir William John Cunningham Sir Richard Udny Colonel Sir Howard Mellis Sir Arthur Charles Trevor Sir John Frederick Price Sir Charles Montgomery Rivaz Sir James Digges La Touche Sultan Sir Ahmad Fadthl, of Lahej Lieut.-Col. Sir David William Keith Barr Sir Henry John Stedman Cotton Admiral Sir Charles Carter Drury Sir Henry Martin Winterbotham Sir James Monteath Lieut.-Col. Sir Donald Robertson Sir Andrew Henderson Leith Fraser . Sir Hugh Shakespear Barnes Sir William Roe Hooper Col. Sir Colin Campbell Scott Moncrieff Kunwar Sir Ranbir Singh, of Patiala Sir Arundel Tagg Arundel Sir Thomas Raleigh H. H. Thakur Sahib of Bhaunagar Sir Arthur Henry Temple Martindale Sir James Thomson Sir Joseph Bampfylde Fuller H. H. Raja of Chamba Lieut.-Col. Arthur John, Baron Stamfordham Maj.-Genl. Sir Stuart Brownlow Beatson Sir Thomas William Holderness Sir Lancelot Hare Sir Charles Stuart Bayley H. H. Raj Rana of Jhalawar Raja Sir Tasadduk Rasul Khan of Jahangirabad, Oudh Sir John William Pitt Muir-Mackenzie Nawab Bahadur Sir Khwaja Sallimulia of Dacca Sir James Wilson H. H. Maharaja of Alwar H. H. Raja of Jind Sir Henry Eric Richards Sir Gabriel Stokes Sir George Stuart Forbes H. H. Raja of Ratlam James Lyle, Baron Inchcape Sir Harvey Adamson Gen. Sir Beauchamp Duff Nawab of Murshidabad Lieut.-Col. Sir James Robert Dunlop-Smith Sir John Ontario Miller Sir Lionel Montague Jacob Sir Murray Hammick Sir Krishna Gobinda Gupta Sir Leslie Alexander Selim Porter Sir Spencer Harcourt Butler Sir Robert Warrand Carlyle H. H. Maharaja of Kishangarh Sir Reginald Henry Craddock Sir James McCrone Doule Sir James Scorgie Meston Sir Benjamin Robertson Sir Richard Amphlett Lamb Maharajadhiraja of Burdwan Sir Elliot Graham Colvin Sir Trevredyn Rashleigh Wynne Surg.-Gen. Sir Charles Pardey Lukis Sir Stanley Ismay Sir George Casson Walker Sir George Casson Walker H. H. Raja of Dhar H. H. Raja of Dewas State (Senior Branch) Surg.-Gen. Sir Francis Wollaston Trevor H. H. Maharaja of Bhutan Sir John Nathaniel Atkinson

Sir William Thomson Morison Sir George Head Barclay Lieut.-Gen. Sir James Willcocks Lieut.-Col. Sir G. Roos-Keppel Sir M. F. O'Dwyer Sir Salyid Ali Imam Sir D. C. Baillie

Lieut.-Col. William Dickinson

Companions (C. S. I.)

Gen. Sir Peter Stark Lumsden Major-Gen. Beresford Lovett Gen. Sir Thomas E. Gordon Major-Gen. Phillip Durham Henderson Col. Leopold John Herbert Grey Sir George Christopher Molesworth Birdwood Major-Gen. Henry Wylie Major-Gen. William Tweedie Sir Henry William Primrose Herbert John Reynolds Lieut.-Gen. Michael Weeks Willoughby Raja Plati Mohan Mukharji of Uttarpara Sir Frederick Russell Hogg Col.Charles Edward Yate William Rudolph Henry Merk Rao Chhatrapati Bahadur, Jagirdar of Alipura Col.Edward L. Ommanney Col. John Clerk James Richard Navlor David Robert Lyall Sardar Jiwan Singh, of Shahzadpur Col. George Herbert Trevor Col. Frederick J. Home Lieut.-Col. Henry St. Patrick Maxwell Sir Jervoise Athelstane Baines Sir Thomas Salter Pyne Major-Gen. Robert Charles Boileau Pemberton Col. Wm. Francis Prideaux Alan Cadell Arthur Forbes Kerala Varma Valiya Koil Tamburan, of Travancore Sir Arthur Upton Fanshawe Col. George Fletcher Ottley Boughey James Fairbairn Finlay Joseph Parker Sir John Molesworth Macpherson Charles Walter Bolton Horace Frederick D'Oyly Moule Horace Frederick D'Oyly Moule Surg.-Gen. James Clegnorn Col. Thomas Gracey Col. James Aloysius Miley Sir Henry Babington Smith Henry Alken Anderson Lleut.-Col. Sir Arthur Henry McMahon Sir Henry Evan Murchison James James Knox Spence Charles William Odling Alexander Walmesley Cruickshank David Norton Thomas Stoker Col. Maule Campbell Brackenbury Sir Edward Richard Henry Lucas White King Sir Mackenzie Dalzell Chalmers Surgn.-Gen. David Sinclair Henry Farrington Evans Lt.-Col. John Muir Hunter Richard Gillies Hardy Sir Frederick Robert Upcott Herbert Charles Fanshawe Sir Frederick Styles Philpin Lely George Robert Irwin

Lieut.-Gen. Sir George Lloyd Reilly Richardson Robert Burton Buckley Arthur Frederick Cox Charles Gerwien Bayne Hartley Kennedy Sir Edwin Grant-Burls Major-Gen. Trevor Bruce Tyler William Charles Macpherson Lt.-Col. James Alexander Lawrence Montgomery Lt.-Gen. Henry Doveton Hutchinson Lieut.-Col. Sir Hugh Daly Raia of Burdwan Nawab of Pahasu Sardar Badan Singh of Malaudh Sir Thomas Gordon Walker Col. James White Thurburn Alfred Brereton William Thomas Hall Richard Townsend Greer Col. Robert Henry Jennings Sir Harold Arthur Stuart Sir Louis William Dane Sir Alfred Macdonald Bulteel Irwin Lt.-Col. James Bird Hutchinson Raja Ram Pal of Kotlehr Hermann Michael Kisch Sir Cecil Michael Wilford Brett Herbert Bradley Sir Frank Campbell Gates John Mitchell Holms Percy Seymour Vesey Fitzgerald Lt.-Col. Willoughby Pitcairn Kennedy William Henry White Raja Narendra Chand Arthur Delaval Younghusband Oscar Theodore Barrow Col. Howard Goad Francis Alexander Slacke Saiyid Husain Bilgrami Percy Comyn Lyon Algernon Robert Sutherland Sir George Watson Shaw William Arbuthnot Inglis Romer Edward Younghusband Col. Herbert Mullaly John Alexander Broun Col. Henry Finnis Maharaj Bhairon Singh Maj.-Gen. Sir Alfred William Lambart Bayly Maurice Walter Fox-Strangways William Lochiel Sapte Lovett Cameron Sir Edward Douglas Maclagan Raja Madho Lal John Stratheden Campbell Lieut.-Col. Charles Herbert Sir Ashutosh Mukharji Maj.-Gen. Sir Henry Montague Pakington Hawkes Dr. Rash Behari Ghosh Francis Capel Harrison Lieut.-Col. Sir Percy Zachariah Cox Comdr. Sir Hamilton Pym Freer-Smith Andrew Edmond Castlestuart Stuart Brig.-Gen. William Riddell Birdwood Norman Goodford Cholmeley Walter Francis Rice Alexander Gordon Cardew Sir Frederick William Duke Havilland Le Mesurier Claud Hamilton Archer Hill Cecil Edward Francis Bunbury Col. Reginald Henry Mahon

Lieut.-Col. Alexander Fleetwood Pinhey Capt. Allen Thomas Hunt Walter Badock James Mollison Pirajirao Bapu Sahib Ghatge Robert Woodburn Gillan John Walter Hose Charles Ernest Vear Goument Harrington Verner Lovett Herbert Lovely Eales George Gilbert White Col. Sidney Gerald Burrard Frederick Beadon Bryant Lieut.-Col. Herbert Lionel Showers Frank George Sly George Moss Harriott Ernest Herbert Cooper Walsh Edward Vere Levinge Robert Nathan Arthur Meredith Lieut.-Col. Charles Archer James Peter Orr Herbert Alexander Casson William Axel Hertz Mahadev Bhaskar Chaubal George Seymour Curtis William Henry Clark Major Francis Aylmer Maxwell Major Clive Wigram Herbert Thompson Rao Bahadur Nanak Chand Lieut.-Col. William Burney Bannerman Lieut.-Col. John Ramsay Stuart Lockwood Maddox Stuart Lockwood Maddox Gilbert Thomas Walker Lieut.-Col. Phillip Richard Thornhagh Gurdon Khan Zulfikar Ali Khan of Maler Kotla Col. George Francis Angelo Harris Edmund Vivian Gabriel John Stuart Donald Henry Montague Segundo Mathews Arthur Crommelin Hankin Faridoonji Jamshedji Maulvi Ahmad Hussain Horace Charles Mules H. H. Raja Bije Chand, Chief of Kahlur Lieut.-Col. Arthur Russell Aldridge Maj. Mathew Richard Henry Wilson John Charles Burnham Brev.-Col. Thomas Francis Bruce Tailyour Michael Kennedy Thakor Karansinghji Vajirajji Meherban Mudhojirao Janrao Naik Nana Nimbalkar Lieut.-Col. Alain Chartier de Lotbiniere Joly de Lotbiniere Brig.-Gen. Herbert Vaughan Cox Brev.-Col. Robert Smeiton Maclagan Lieut.-Col. Charles Mowbray Dallas Edward Henry Scamander Clarke Jagadish Chundra Bose Abbas Ali Baig
Oswald Campbell Lees
Lt.-Col. G. G. Giffard
F. W. Johnston William Henry Lucas A. L. Saunders
Vakhatsinghji Kesrisinghji
Paul Gregory Melitus
Lieut.-Col. Albert Edward Woods William Exall Tempest Bennett Fon. Maj. Sahibzada Obaidullah Khan

William Ogilvie Horne Pazhamaneri Sundaran Aiyar Sivaswami Aiyar William Harrison Moreland, C.I.E. Edward Albert Galt, C.I.E. Diwan Bahadur Chaube Raghunath Das, of Kotah Col. Lestock Hamilton Reid

Surg.-Gen. Henry Wickham Stevenson Hon. Lieut.-Col. Raja of Lambagraon Lionel Davidson George Carmichael Lieut.-Col. Donald John Campbell MacNabb Lieut.-Col. Henry Walter George Cole Stuart Mitford Fraser Henry Yenn Cobb Behari Lal Gupta

Behari Lal Gupta Henry Wheeler F. W. Newmarch

OFFICERS OF THE ORDER.

Secretary, Lieut.-Col. Sir A. H. McMahon

Registrar, Col. Sir Douglas Dawson

The Most Eminent Order of the Indian Empire.

This Order, instituted by H. M. Queen Victoria, Empress of India, Jan. 1st, 1878, and extended and enlarged in 1886, 1887, 1892, 1897, and 1902, is conferred for services rendered to the Indian Empire, and consists of the Sovereign, a Grand Master, thirty-two Knights Grand Commanders (of whom the Grand Master is first and principal), ninety-two Knights Commanders, and an Indefinite number of Companions (not exceeding, without special statute, 20 nominations in any one year); also Extra and Honorary Members over and above the vacancies caused by promotion to a higher class of the Order, as well as certain Additional Knights and Companions appointed by special statute Jan. 1st, 1909, commemorative of the 50th Anniversary of the assumption of Crown Govt. in India.

The Insignia are: (i) The COLLAR of gold, formed of elephants, lotus flowers, peacocks in their pride, and Indian roses, in the centre the Imperial Crown, the whole linked together with chains; (ii) The SAR of the Knight Grand Commander, comprised of five rays of silver, having a small ray of gold between each of them, the whole alternately plain and scaled, lesuing from a gold centre, having thereon Her Majesty Queen Victoria's Royal Effigy, within a purple circle, edged and lettered gold, inscribed Imperial Crown gold; (iii) The Badde, consisting of a rose, enamelled guies, barbed vert, and having in the centre Her Majesty Queen Victoria's Royal Effigy, within a purple circle, edged and lettered gold, inscribed Imperatricis Auspicits, surmounted by an Imperial Crown, also gold; (iv) The Mantle is of Imperial Crown, also gold; (iv) The Mantle is of Imperial purple satin, lined with and fastened by a cordon of white silk, with purple silk and gold tassels attached. On the left side a representation of the Star of the Order.

A Knight Commander wears: (a) around his neek a ribbon two inches in width, of the same colour (purple) and pattern as a Knight Grand Commander, pendent therefrom a badge of smaller size: (b) on his left breast a star, aimilar to that of the first class, but the rays of which are all of silver.

The above mentioned Insignia are returned at death to the Central Chancery, or if the Knight was resident in India to the Secretary of the Order at Calcutta.

A Companion wears from the left breast a badge (not returnable at death) of the same form as appointed for a Knight Commander, but o smaller size, pendent to a like ribbon of the breadth of one and a half inches.

Sovereign of the Order:—The King Emperor of India.

Grand Master of the Order:—Lord Hardinge.

Honorary Knights Grand Commanders, (G. C. I. E.)

The ex-Emperor of Korea

Extra Knight Grand Commander (G. C. L E.)

The Duke of Connaught

The Rao of Cutch

Knights Grand Commanders (G.C.I.E.)

Lord Lansdowne Lord Harris The Nawab of Tonk Sir James Lyall Lord Elgin The Wali of Kalat Lord Sandhurst Maharaja of Karauli Thakur Sahib of Gondal Thakur Sahib of Morvi Sir George Faudel-Phillips The Maharaja of Benares Sir Sher Muhammad Khan of Palanpur Lord Curzon of Keddleston The Maharaja of Jaipur The Maharaja of Orchha Lord Ampthill Maharao of Bundi General Sir Alfred Gaselee The Maha Rao of Sirohi The Aga Khan The Maharaja of Travancore Lord Lamington The Begam of Bhopal Sir Edmund Ellis The Nawab of Janjira Sir Walter Laurence Sir Arthur Lawley The Maharaja of Bikaner The Maha Rao of Kota Lord Sydenham Lord Kitchener The Nawab of Rampur Maharaj Sir Kishen Parshad Lord Carmichael Maharaja of Kashmir Sir Louis Dane Maharaja of Bobbili Lord Stamfordham Sir Guy Fleetwood Wilson Sir John Jordam The Maharana of Udaipur The Maharaja of Patiala The Mir of Khairpur The Raja of Cochin The Nawab of Dacca Lord Pentland

Sardar Sir Ghaus Bakhsh, Raisani Sir Henry Thoby Prinsep

The Raja of Pudukottai Lord Willingdon Maharaja of Kolhapur

Honorary Knights Commanders (K. C. I. E.)

Sir Leon E. Clement-Thomas H._ E._ Sir Hussein Kuli Khan, Mokhber-ed-Sir Sven Hedin The Sheikh of Mohamerah Gen. Sir Albert Houtum Schindler

The Sheikh of Koweit Knights Commanders (K. C. I. E.) Sir Alexander Meadows Rendel Sir George Christopher Molesworth Birdwood Surg -Gen. Sir Benjamin Simpson Sir Albert James Leppoc Cappel Sir Donald Mackenzie Wallace Sir Alfred Woodley Croft Sir Bradford Leslie Sir Arthur Nicolson Sir Guildford Molesworth Sir Frederick Russell Hogg Raja of Venkatagiri Sir Henry Mortimer Durand Sir Arthur George Macpherson Sir William Markby Sir Henry Stuart Cunningham Raja of Lunawara Sir Roper Lethbridge Sir Edward Charles Kavll Ollivant Sir Henry Hoyle Howorth Sir Henry Seymour King Sir Wm. Brereton Hudson Gen. Sir Thomas Edward Gordon Sir John Lambert Baron Inchcape Col. Sir Henry Revenshaw Thuillier Sir Wm. R. Brooke Maharaja of Gidhaur Lieut.-Col. Sir Adelbert Cecil Talbot Maj.-Gen. Sir Thomas Dennchy H. H. Maharaja of Ajaigarh Sir Henry William Bliss Nawab of Loharu Col. Sir William Bisset Gen. Sir Edward Stedman Sir John Jardine Rear-Admiral Sir John Hext Sir Mancherjee Bhownaggree Col. Sir Thomas Holdich Col. Sir Thomas Routen Sir Arthur Wilson Sir Andrew Wingate Kunwar Sir Harnam Singh, Ahluwalia Sir S. Subramaniya Aiyar Sir Alexander Cunningham Sir Henry Evan Murchison James Nawab Sir Shahbaz Khan, Bugti of Baluchi-Sir James George Scott Maharaja of Darbhanga Col. Sir Samuel Swinton Jacob Sir Lawrence Hugh Jenkins Sir Herbert Thirkell White Surg.-Gen. Sir Benjamin Franklin Sir Frederick Augustus Nicholson

Sir Arthur Upton Fanshawe Raja Dhiraj of Shahpura

(senior Branch)

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The Earl of Cromer Sir Courtenay P. Ilbert Sir Theodore C. Hope

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Joseph John Mullaly William Didsbury Sheppard Col. Roderick Macrae Lieut.-Col. Victor Reginald Brooke Oswald Vivian Bosanquet Tanjore Madava Rao Ananda Rao John Hubert Marshall William Arthur Johns Charles Michie Smith Lieut.-Col. Arthur Grey John Barry Wood Lt.-Col. George Grant Gordon Major-General Ralph Champneys Broome Col. Frank Goodwin Lieut.-Col. George Frederick Chenevix-Trench Archibald Young Gibbs Campbell Andrew Bigoe Barnard James Adolpus Guider John Paul Warbarton James William Douglas Johnstone Fakir Sayad Iftakhar-ud-din James Herbert Seabrooke Walter Culley Madge Lieut.-Col. Wallace Christopher RamsayStratton James Scott Major Edward Charles Bayley Rai Bahadur Lala Sheo Prasad Frederick William Johnstone Maj. Arthur Louis Bickford Edward Gelson Gregson William Malcolm Hailey Col. Benjamin William Marlow Herbert Gerald Tomkins Henry Whitby Smith Major Francis Beville Prideaux Major Arthur Prescott Trevor Lieut.-Col. Ramsay Frederick Clayton Gordon Lieut.-Col. Charles MacTaggart Nawab Mirza Mahdi Husain Rai Kishan Shah Bahadur Hopetoun Gabriel Stokes Lieut.-Col. Leonard Rogers Nawab Abdul Majid Ludovic Charles Porter Henry Sharp Arthur Venis Mahamahopadya Hara Prasad Shashtri Lt.-Col. Allen McConaghey Nawab Kaisar Khan, Chief of the Magassi Tribe Rai Bahadur Diwan Jamiat Rai Robert Charles Francys Volkers Henry Hubert Hayden Alexander Muirhead The Maharaj of Sikkim Lieut.-Col. Edulji Palanji Frenchman Alexander Emanuel Engilsh George Frederick Arnold Maung Myat Tun Aung George Cunningham Buchanan William Rucker Stikeman Edward Robert Kaye Blenkinsop George Sanky Hart Nawab Muhammad Salamullah Khan Bahadur Jagirdar of Deulghat John Henry Kerr Lieut.-Col. George Henry Evans Major Henry Burden Maharaja Raghunath Singh, of Dhasuk George William Kuchler John Ghest Cumming Rev. John Anderson Graham Francis Hugh Stewart

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Col. Francis Raymond
Col. Michael Joseph Tighe
Lieut.-Col. William Bernard James Major Sydney D'Aguilar Crooksbank Edward Denison Ross John Hugh Cox Khan Bahadur Muhammad Israr Hasan Khan Major Reginald O'Bryan Taylor David Wann Alkman Bal Bahadur Pandit Hari Kishan Kaul Lieut.-Col. Frederick William Wodahouse Col. Richard Henry Ewart Col. Maitland Cowper Thomas Walker Arnold Lieut.-Col. Charles Henry James Rana Hira Singh of Dhami Alexander Blake Shakespear John Hope Simpson Major Hugh Stewart Major William Glen Liston Lieut.-Col. Edwin Henry de Vere Atkinson Walter Stanley Taibot Frank Adrian Lodge.

Col. Robert William Layard Dunlop Lieut.-Col. Walter James Buchanan Hrishi Kesh Laha Nailini Kesh Laha Nalini Bhusan Gupta Joseph Terence Owen Barnard Lieut.-Col. Townley Richard Filgate Alexander Macdonald Rouse Charles Cahill Sheridan Capt. Herbert de Lisle Pollard-Lowsley Major William Wilfrid Bickford L'eut.-Col. John George Knowles Major George Dodd Henry Cuthbert Streatfelld Major Cecil Kaye William Foster Lt.-Col. Appaji Rao Ankkar W. H. Arden-Wood Sardar Arur Singh W. C. Ashmore W. C. Ashmore
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P. R. Cadell
Capt. W. L. Campbell
Major G. S. Crawford
W. C. M. Dundas
Lt.-Col. V. N. Hickley H. F. Howard J. H. Lace L. Mercer Bhupendra Nath Mitra A. P. Muddiman J. R. Pearson Sheo Shankar Sahay H. L. Stephenson Major H. B. St. John J. H. Stone Abanindra Nath Tagore Major G. K. Walker C. C. Watson Hugh Edward Clark Percy James Mead Deba Prosad Sarbadhikari Frank Charles Daly Mir Snams Shah, Khan Bahadur Haji Bukhsh Eliahie, Khan Sahib Frank Edwin Gwyther
James Gargrave Covernton
Louis E. B. Cobden-Ramsay
William Pell Barton George Batley Scott Rangnath Nusingh Mudholkar Major Charles Bliss Hebbalalu Velpanur Nanjundayya Major James Curry Robertson William Sinclair Marris George Frederick Buckley Major J. D. E. Holmes Raghunath Venkaji Sabnis

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Secretary, Lieut.-Col. Sir A. H. McMahon Registrar, Col. Sir Douglas Dawson

The Imperial Order of the Crown of India.

This Order was instituted Jan. 1, 1878, and for a like purpose with the simultaneously created Order of the Indian Empire. It consists of the Queen and Queen Mother with some Royal Princesses, and the female relatives of Indian Princes or of persons who have held H. H. Beguin of Penders of Pender

Badge, the roval cipher in jewels within an oval, surmounted by an Heraldic Crown and attached to a bow of light blue watered ribbon, edged white. Designation, the letters C. I.

Sovereign of the Order. THE KING-EMPEROR OF INDIA.

Ladies of the Order (C. I.)

Her Majesty The Queen H. M. Queen Alexandra H. M. the Queen of Norway H. R. H. the Princess Royal H. R. H. the Princess Victoria H. R. H. the Princess Christian of Scheleswig-Holstein H. R. H. the Princess Louise (Duchess Argyll) H. R. H. Princess Henry of Battenberg H. I. and R. H. the Dowager Duchess Saxe-Coburg and Gotha H. R. H. the Duchess of Connaught H R. H. the Duchess of Albany H. R. H. the Duchess of Cumberland H. R.H the Princess Fredericka Baroness of von Pawel-Rammingen H. R. H. the Dowager Grand Duchess of Mecklenburg-Strelitz H. R. H. the Princess Ferdinand of Roumania. H. I. and R. H. the Grand Duchess Cyril of Russia H. R. H. the Hereditary Princess of Hohenlohe-Langenburg

H. R. H. the Crown Princess of Sweden

H. R. H. the Princess Patricia of Connaught

H. R. H. the Princess Victoria Elizabeth

Augustine Charlotte, Hereditary Princess of Saxe-Meiningen
H. H. the Princess Victoria of Schleswig-Holstein H. H. the Princess Marie-Louise of Schleswig-Holstein Baroness Kinloss Dowager Countess of Mayo Mrs. Charles Coates Lady Jane Emma Crichton Dowager Countess of Lytton Dowager Baroness Lawrence Lady Temple Dowager Baroness Napier of Magdala Lady Grant Duff Dowager Marchioness of Dufferin and Ava Mrs. George Cornwallis-West Baroness Reay H. H. Maharani of Cooch Behar Marchioness of Lansdowne Baroness Harris H. H. Maharani of Gwalior Constance Mary Baroness Wenlock H. H. Maharani Sahib Chimna Bai Gackwar H. H. Rani Sahib of Gondal H. H. the Dowager Maharani of Mysore Lady George Hamilton H. H. the Maharani Sahiba of Udaipur Alice, Baroness Northcote
Nora Henrietta, Countess Roberts
Amelia Maria, Lady White
Mary Katherine, Lady Lockhart
Baroness Ampthill Countess of Minto Baroness Hardinge of Penshurst

THE KAISAR I HIND MEDAL.

This decoration was instituted in 1900, the preamble to the Royal Warrant—which was amended in 1901 and 1912—being as follows:—"Whereas We, taking into Our Royal Consideration that there do not exist adequate means whereby We can reward important and useful services rendered to Us in Our Indian Empire in the advancement of the public interests of Our said Empire, and taking also into consideration the expediency of distinguishing such services and taking also into consideration the expediency of distinguishing such services whereas the purpose of attaining an end so desirable as that of thus distinguishing such services aforesaid, We have instituted and created, and by these presents for Us, Our Heirs and Successors, do institute and create a new Decoration. The decoration is styled "The Kaisar-i-Hind Medal for Public Service in India." and consists of two classes. The Medal is an oval shaped Badge or Decoration most of the Second Class—with the Royal Cypher on one side and on the reverse the words "Kaisar-i-Hind for Public Service in India." it is suspended on the left breast by a dark blue ribbon.

Recipients of the 1st Class.

Abdus Samad Khan of Rampur

Allnut, The Rev. Samuel Scott Amerchand, Rao Bahadur Ramnarayan Ampthill, Margaret, Baroness Ashton, Albert Frederick Barber, Renjamin Russell Barnes, Major Ernest Beaty, Francis Montagu Algernon Beck, Miss Emma Josephine Benson, Lady Bikanir, Maharaja of Bingley, Colonel Alfred Bonig, Max Carl Christian Booth-Tucker Frederick St. George de Lautour Bosanquet, Oswald Vivian Bose, Dr. Kailash Chandra Bramley, Percy Brooke
Bray, General Denys DeSaumarez, in Baluchistan Broadway, Alexander Brunton, James Forest Buchanan, Rev. John Burn, Richard Burnett, General Sir Charles John Calnan, Denis Campbell, Lieutenant-Colonel Robert Neil Campion, John Montriou Carleton, Marcus Bradford Chandra, Rai Bahadur Hari Mohan Chatterton, Alfred Chaudhuri, Raja Sarat Chandra Rai Chetty, Dewan Bahadur K. P. Pultanna Chinai, Ardeshir Dinshaji Chitnavis, Shankar Madho Coldstram, William Comley, Mrs. Alice Cousens, Henry Cowasjee, Merwanjee Cox, Arthur Frederick Crawford, Francis Colomb Dane, Lady Darbhanga, Maharaja of Das, Ram Saran Davies, Arthur

deLotbiniere, Lieutenant-Colonel Alain C. Joly DuBern, James Emile
Dyson, Lieutenant-Colonel Thomas Edward
Earle, The Hon'ble Sir Archdale Egerton, William
Ewing, The Rev. Dr. J. C. R.
Firth, Mrs. E. J. (with Gold Bar)
Ghosal, Mr. Jyotsnanath Glazebrook, N. S. Giazeorook, N. S. Gonzaga, Rev. Mother Graham, The Rev. John Anderson Grattan, Major Henry William Guilford, The Rev. E. Gwallor, Maharaja of Gwyther, Major Arthur Hahn, The Rev. Ferdinand Haig, Lieutenant-Colonel Patrick Balfour Hall, Harold Fielding Patrick Hamilton, Major Robert Edward Archibald Harvest, Major Herbert deVere Hardinge, Winifred Selina Hickie, Edward George Hildesley, The Rev. Alfred Herbert Hodgson, Edward Marsden Hogan, W. J. Alexander Holderness, Sir Thomas William Home, Walter Howard, Mrs. Gabrielle Louise Caroline Howard, Mrs. Gabrielle Louise Caroline
Hume, The Rev. R. A.
Humphreys, Robert
Hutchinson, Sir Sydney Hutton Cooper
Hutchinson, Captain William Gordon
Hutwa, The Maharani Jnan Manjari Kuori of
Hydari, Mrs. Amina
Irvine, Lleutenant-Colonel Thomas Walter
Ismail, Muhammad Yusuf
Louise Horey William Maclean Ives, Harry William Maclean Jacob, Colonel Sir Samuel Swinton James, Lieutenant-Colonel Charles Henry Jankibai Joshi, Ram Bhau Meghasham, Rao Bahadur Kapur, Raja Ban Bihari King, Mrs. D. Kirkpatrick, Clarence Klopsch, Dr. Louis Ko, Taw Sein Kothari, The Hon'ble Mr. Jehangir Hormusj Lamb, The Hon'ble Sir Richard Amphlett Lindsay, D'Arcy Ling, Miss Catharine Frances Lovett, The Hon'ble Mr. Harrington Verney Luck, Wilfred Henry Lyall, Frank Frederick Lyons, Colonel Robert William Steele Macwatt, Lieutenant-Colonel Robert Charles Madhava Rao, Vishwanath Pattankar Madhavan Nair, M. R. Ry. T. Avergal Mahdi Husain, Nawab Mirza Malegaon, Raje of Malvi Tribhuvandas Narottandas Manners-Smith, The Hon'ble Mr. France St. George Mary of St. Paula, Rev. Mother Mayes, Herbert Frederick McCarrison, Major Robert McCloghry, Colonel James Mcchtilda, Rev. Mother Miller, The Bev. William

Minto, Mary Caroline Mitra, Dr. A. Morgan, George Morrison, Honorary Captain James Mudliar, Sardar Coopuswamy Vizianagram Muir Mackenzie, Lady Thérése Murray, George Ramsay Naidu, Mrs. Sarojini Nanak Chand Nariman, Dr. Temulji Bhikaji Neve, Dr. Ahrtur Nisbet, John Noyce, William Florey Oldham, Charles Evelyn Arbuthnot William. O'Meara, Major Eugene John O'Donnel, Dr. Thomas Joseph Pandit, Sitaram Narayan Pitcher, Colonel Duncan George Plant, Captain William Charles Trew Gray Gambier Poynder, Lieutenant-Colonel John Leopold Ravi Varma, Koil Tamburan Reid, Frederick David Reynolds, Leonard William Rondy, The Very Rev. The Abbe Noel Rost, Major Ernest Reinhold Row, Dr. Raghavendra Roy, Babu Harendra Lal Roy, Rao Jogendra Narayan Sallana, Raja of Sell, The Rev. Canon Edward Semple, Lieutenant-Colonel Sir David Sewell, The Rev. J.D.W., S.J. Samthar, Maharaja of Saminar, manaraja of Sharp, Henry Shepherd, Rev. James Sheppard, Mrs. Adeline B. Sheppard, William Didsbury Shore, Lieutenant-Colonel Robert Shorbythe Major Honel Shoubridge, Major Charles Alban Grevis Singh, Raja Bhagwan Bakhsh Singh, Rai Hira Singh, Raja Kamaleshwari Pershad Sinha, Purnendu Narayan Skrefsrud, The Rev. Larsorsen Smith, Lieutenant-Colonel Henry Sorabji, Miss Cornelia Southon, Major Charles Edward Spence, Christina Philippa Agnes Sri Ram Stanes, Robert Stark, John Theodore Roebuck Stokes, Dr. William Sukhdeo Prasad, Pandit Talati, Edalji Dorabji Taylor, The Rev. George Pritchard Taylor, Dr. Herbert F. Lechmere Taylor, Dr. Herbert F. Lechmere
Thomas, The Rev. Stephen Sylvester
Thurston, Edgar
Tilly, Harry Lindsay
Tucker, Major William Hancock
Turner, Dr. John Andrew
Tyndale-Biscoe, The Rev. Cecil Earle
Tyrdale-Biscoe, The Rev. Cecil Earle
T Venugopala, Raja Bahadur Wagner, Rev. Paul Wake, Lleutenant-Colonel Edward St. Aubyn Wakefield, George Edward Campbell Walker, Lady Fanny Walter, Major Albert Elijah Ward, Major Ellacott Leamon Wheeler, The Rev. Edward Montague

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Singh, Babu Harnath
Singh, Babu Harnath
Singh, Makkhan
Singh, Baja Bahadur, Padmanadd
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INDIAN NAMES AND TITLES.

There is a bewildering multiplicity of Indian titles, made all the more difficult inasmuch as there is a difference of nomenclature between the titles of Hindus and Mahomedans. Some titles are hereditary and represent ruling chiefs or those nominally such (and of these there are no less than some 620, whilst of the titles themselves some 200 are known); others are persoral honours conferred on individuals by the Indian honours conferred on individuals by the Indian Government, and even then sometimes made hereditary. Yet again, there are numerous complimentary titles, or specifications of office, expressed in Hindu phrases, of which we have occasionally supplied the interpretations. It must be added that though caste is often figuring in the names it has nothing whatever to do with the titles. Amir, Khan, Mir, Sultan, Sri, &c., are confusingly used as both titles and names.

Thein, Maung Po

The order of rank is thus given by Sir R. Lethbridge in "The Golden Book of India."

Hindu—Maharaja Bahadur, Maharaja, Raja Bahadur, Raja, Rai Bahadur, Rai Saheb, Rai.

Nawab Bahadur. Mohammedan-Nizam, Nawab, Khan Bahadur, Khan Saheb,

Parsis and Bene-Israelities-Khan Bahadur. Khan Saheb.

Afsur-a corruption of the English "officer." Ahluwalia-name of a princely family resident at the village of Ahlu, near Lahore.

Akhundzada—son of a Head Officer.

Alijah (Sindhi)—of exalted rank.
Ali Raja—Sea King (Laccadives).
Amir (corruptly Emir)—a Mohammedan Chief;

often also a personal name.

Asaf—a Minister. Baba-lit. "father;" a respectful "Mr.;"
Irish "Your Honour."

Babu-strictly a 5th or still younger son of a Raja, but often used of any son younger than the heir, whilst it has also grown into a term of address—Esquire. There are, however, one or two Rajas whose sons are known respectively as—ist, Kumwar; 2nd, Diwan; 3rd, Thakur; 4th, lai; 5th, Babu.

ahadur—lit. "brave" or "warrior:" a

Bahadur-lit. title used by both Hindus and Mohammedans, often bestowed by Government; added to other titles it increases their honour, but alone it designates an inferior ruler.

Bakhshi-a revenue officer or magistrate. Begum or Begam—the feminine of "Nawab," combined in Bhopal as "Nawab Begum."

Besar-apparently a large land-owner. Bhonsle-name of a Maratha dynasty. Bhup-title of the ruler of Cooch Behar. Bhugti-name of a Baluch tribe.

Chhatrapati-one of sufficient dignity to have an umbrella carried over him.

Dada—lit. "grandfather" (paternal); venerable person.

Daula and Daulat—State; also one in office. Deb—a Brahminical priestly title; taken from the name of a divinity.

Dhiraj—"Lord of the Lands:"added "Raja," &c., it means "paramount."

Diwan-a Vizier or other First Minister to a native Chief, either Hindu or Mohammedan, and equal in rank with "Sardar," under which see other equivalents. The term is also used of a Council of State.

Elaya Raja—title given to the heir of the Maharaja of Travancore.

Farzand (with defining words added)-" favo-

rite" or "beloved."
Fatch—"victory."
Fath Jeang—"Victorious in Battle" (a title
of the Nizam).

Guicenar)—title with

Gackwar (sometimes Guicowar)—title with "Maharaja" added of the ruler of Baroda It was once a caste name and means "owherd i.e., the protector of the sacred animal; but ation and consequently regarded as a title. Thus, a Prince becomes "Gaekwar" on succeeding to the estate of Baroda;" Holkar," to that of Indore; and "Sindhia," to that of Gwalior.

Hafiz-guardian.

Haji-one who has made pilgrimage to Mecca. Hiera Lal-" diamond ruby,"

Holkar-see "Gaekwar."

Jah-a term denoting dignity.

Jam (Sindhi or Baluch)-Chief.

Kazi-(better written Qazi)-a Mohammedan magistrate.

Khan-originally the ruler of a small Mohammedan State, now a nearly empty title though prized. It is very frequently used as a name, especially by Afghans and Pathans.

Khwaja-a Persian word for "master." sometimes a name.

Kunwar or Kumar-the heir of a Raja.

Lal-a younger son of a Raja (strictly a 4th son, but see under "Babu").

Lokendra or Lokindra—"Protector of the World," title of the Chiefs of Dholpur and Dattia.

Mahant-a feudal title borne by the heads of a Hindu religious body.

Maharaja—the highest of hereditary rulers among the Hindus, or else a personal distinction conferred by Government. It has several variations as under "Raja," with the addition of Maharaj Rana; its feminine is Maharani (mahag=reat).

Malik-master, proprietor.

Mian—title of the son of a Rajput Nawab, resembling the Scottish "Master."

Mir-a leader, an inferior title which, like "Khan," has grown into a name. It is especially used by descendants of the Chiefs of Sind.

Mirza-if prefixed, "Mr." or "Esquire." Mong, Moung, or Maung (Arakanese)-leader.

Moulti or Maulvi-a learned man or teacher.

Mudaliyar or Mud-liar—a personal proper name, but implying "steward of the lands."

Mumtuz-ud-Daula-distinguished in the State (Mulk, in the country).

Munshi-president, or presiding official. Myowun-" Mr."

Nawab-originally a Viceroy under the Moghal dwap—oughnary a vicery under the Mognai Government, now the regular leading title of a Mohammedan Prince, corresponding to "Maharaja" of the Hindus.

Nazim-a ruler (not to be confused with following).

Nizam—the title of the ruler of Hyderabad, the one Mohammedan Prince superior to Nawab.

None (Thibetan)—the ruler of Spitta. Pandil or Pundil—a learned man.

Peshkar-manager or agent.

later on, in common with "Holkar" and Prince—term used in English courtesy for "Sindhia," it came to be a dynastic appell- "Shahzada," but specially conferred in the case of "Prince of Arcot" (called also "Armini-Arcot ").

> Raja—a Hindu Prince of exalted rank, but inferior to "Maharaja," The feminine is Runi (Princess or Queen), and it has the variations Raj, Rana, Rao, Rai, Rawal, Rawat. Raikwar, Raikbar, and Raikat. The form Rai is common in Bengal, Rao in S. & W India.

Raj Rajeshwar- King of Kings.

Risaldar—commander of a troop of horses.

Saheb—the Native Hindu term used to or of a European ("Mr. Smith" would be mentioned as "Smith Saheb," and his wife "Smith Mem-Saheb," but in addressing it would be "Saheb," term. "Saheba," without the name; occasionally appended to a title in the same way as "Bahadur," but inferior (=master). The unusual combination "Nawab Saheb" The unusual combination "Nawab Saheb implies a mixed population of Hindus and Mohammedans.

Sahibzada-son of a person of consequence.

Said, Sayid, Saivid, Sidi, Syed, Syud-various forms for a title adopted by those who claim direct male descent from Mohammed's grandson Husain.

Sardar (corrupted to Sirdar)-a leading Government official, either civil or military, even a Grand Vizier. Nearly all the Punjab Barons bear this title. It and "Diwan" are like in value and used by both Hindus and Mohammedans. So, but Mohammedans only, are "Wali," "Sultan," "Amir," "Mir," "Mirza," "Min," and "Khan."

Sawai—a Hindu title implying a slight distinc tion (lit, one-fourth better than others).

Sawbwa (Burmese)-a Chief.

Shahzada—son of a King.

Shaikh or Sheikh (Arabic)—a Chief.

Shams-ul-Ulama—a Mohammedan title denoting "learned."

Shamshir-Jang-"Sword of Battle" (a title of the Maharaja of Travancore).

Sidi—a variation of "Said."

Sindhia-see under "Gaekwar."

Sri or Shri-lit. fortune, beauty: a Sanscrit term used by Hindus in speaking of a person much respected (never addressed to him; nearly="Esquire"); used also of divinities. The two forms of spelling are occasioned by the intermediate sound of the s (that of s in the German Stadt).

Subadar Governor of a province.

Sultan-like ". Sardar,"

Syed, Syud-more variations of "Said."

Talukdar-an Oudh landlord.

Talpur—the name of a dynasty in Sind. Thakur-a Hindu term equivalent to "Bahadur," whether as affix or alone.

Tumandar—a Persian word denoting some office.

Umara—term implying the Nobles collectively.

Wali-like "Sardar." The Governor of Khe-Ishall be light blue with a dark blue border, for lat is so termed, whilst the Chiefs of Cabul are both "Wali" and "Mir."

Zemindar or Zamindar-a landowner; orig. a Mohammedan collector of revenue.

Distinctive Badges.—An announcement was made at the Coronation Durbar in 1911 was made at the Coronation Durbar in 1911 that a distinctive badge should be granted to present holders and future recipients of the titles of 'Diwan Bahadur', 'Sardar Bahadur', 'Khan Bahadur', 'Rai Bahadur', 'Khan Bahadur', 'Khan Sahib', Rai Sahib' and 'Rao Sahib'. Subsequently the following regulations in respect of these decorations were issued:—(1) The decoration to be worn by the believes of the title above mericand help he holders of the titles above mentioned shall be a badge or medallion bearing the King's effigy crowned and the name of the title, both to be executed on a plaque or shield surrounded by a five-pointed star surmounted by the Imperial Crown, the plaque or shield being of silver gilt for the titles of Diwan, Sardar, Khan, Rai and Rao Bahadur, and of silver for the titles of Khan, Rai, and Rao Sahib. (2) The badge shall be worn suspended round the neck by a

the titles of Khan, Rai and Rao Bahadur light red with a dark red border, and for the titles of Khan, Rai and Rao Sahib dark blue with light blue border.

A Press Note issued in November, 1914, state :- The Government of India have recently had under consideration the question of the position in which miniatures of Indian titles should be worn, and have decided that they should be worn on the left breast fastened by a brooch, and not suspended round the neck by a ribbon as prescribed in the case of the Badge itself. When the miniatures are worn in conjunction with other decorations, they should be placed immediately after the Kaiser-i-Hind Medal.

The Indian Distinguished Service Medal was established in 1907 as a reward for commissioned or non-commissioned officers of any forces employed in India. It is a silver medal with the King's effigy on one side and on the obverse a laurel wreath with the words "For Distinguished Service." It is to be worn shall be worn suspended round the neck by a ribbon of one inch and a half in width, which blue. It may be conferred also by the Vicercy for the titles of Diwan and Sardar Bahadur of India.

Laws and the Administration of Justice.

The indigenous law of India is personal and | law is everywhere personal to their native divisible with reference to the two great classes of the population, Hindu and Mahomedan. Both systems claim divine origin and are inextricably interwoven with religion, and each exists in combination with a law based on custom. At first the tendency of the English was to make their law public and territorial, and on the establishment of the Supreme Court and on the establishment of the appenie Court at Calcutta in 1773 and the advent of English lawyers as judges, they proceeded to apply it to Europeans and Indians alike. This error was rectified by the Declaratory Act of 1780, was rectified by the Declaratory Act of 1780, by which Parliament declared that as against a Hindu the Hindu law and usage, and as sgainst a Mahomedan the laws and customs of Islam should be applied. The rules of the Shastras and the Koran have been in some cases altered and relaxed. Instances can be found in the Bengal Satt Begulation Act of 1890, the Law Law County and the 1890, the Law Law County and the Satt Section 1890. found in the Bengal Satt Regulation Act of 1829; the Indian Slavery Act, 1843; the Caste' Disabilities Removal Act of 1850; the Hindu Widows' Remarriage Act, 1856; and other Acts and Codes. To quote the Imperial Gazetteer, "A certain number of the older English statutes and the English common law are to a limited extent still in force in the Presidency Towns as applicable to Europeans, while much of the old Hindu and Mahomedan

fellow subjects; but apart from these, and from the customary law, which is as far as possible recognised by the Courts, the law of British india is the creation of statutory enactments made for it either at Westminister or by the authorities in India to whom the necessary lawgiving functions have from time to time been delegated."

Codification.

Before the transfer of India to the Crown the law was in a state of great confusion. Sir Henry Cunningham described it as "hopelessly unwieldy, entangled and confusing." The first steps toward general codification were taken in 1833, when a Commission was appointed, of which Lord Macaulay was the moving spirit, to prepare a penal code. Twenty-two years elapsed before it became law, during which period it underwent revision from his successors in the Law Membership, and especially by Sir Barnes Peacock, the last Chir Justice of the Supreme Court of Calcutta. The Penal Code, which became law in 1860, was followed in 1861 by a Code of Criminal Procedure. Substantially the whole criminal law of British India is contained in these two Before the transfer of India to the Crown law of British India is contained in these two Codes. One of the most eminent lawyers who

ever came to India, Sir James Stephen, said "The Indian penal code may be described as the criminal law of England freed from all the criminal law of England need from a technicalities and superfluities, systematically arranged and modified in some few particulars (they are surprisingly few) to suit the circumstances of British India. It is practically impossible to misunderstand the code." The rules of Civil Procedure have been embodied in the Code of Civil Procedure. The Indian Penal Code has from time to time been amended. The Code of Civil Procedure was remodelled in 1908 and the Code of Criminal Procedure in 1898. These Codes are now in force.

European British Subjects.

Whilst the substantive criminal law is the same for all classes, certain distinctions of pro-cedure have always been maintained in regard to criminal charges against European British subjects. Until 1872 European British subjects could only be tried or punished by one of the High Courts. It was then enacted that European British subjects should be liable to be tried for any offences by magistrates of the highest class, who were also justices of the peace, and by judges of the Sessions Courts; but it was necessary in both cases that the man is rate or judge should himself be a European British subject. In 1883 the Government of India announced that they had decided "to settle the question of jurisdiction over European settle the question of jurisdiction over European subjects in such a way as to remove from the code at once and completely every judicial disqualification which is based merely on race distinctions." This decision, embodied in the libert Bill, aroused a storm of indignation which is still remembered. The controversy ended in a compromise which is thus summarised by Sir John Strachey ("India"). "The controversy ended with the virtual, though not avowed, abandonment of the measure proposed by the Government. Act III of 1884, by which the law previously in force was amenby which the law previously in force was amended, cannot be said to have diminished the privileges of European British subjects charged with offences, and it left their position as exceptional as before. The general disqualification of native judges and magistrates remains; but it a native of india be appointed to the post but if a native of India be appointed to the post of district magistrate or sessions judge, his powers in regard to jurisdiction over European British subjects are the same as those of an Englishman holding the same office. This provision however is subject to the condition that every European British subject brought for trial before the district magistrate or session induce here the right however trivial be the judge has the right, however trivial be the charge, to claim to be tried by a jury of which not less than half the number shall be Euro-have been recognised in the civil courts throughout India.

High Courts.

The highest legal tribunals in India are the The figuest legal tribunas in incis are the ligh Courts of Judicature. These were constituted by the Indian High Courts Act of 1861 the superior power of the Crown. for Bengal, Bombay and Madras, and later for the United Provinces, superseding the old inferior civil courts yarles. Broadly speaking, supreme and Sudder Courts. The Judges are one district and sessions judge is appointed for

appointed by the Crown; they hold office during the pleasure of the Sovereign; at least one-third of their number are barristers, onethird are recruited from the judicial branch of the Indian Civil Service, the remaining places being available for the appointment of Indian lawyers. Trial by jury is the rule in original criminal cases before the High Courts, but juries are never employed in civil suits in India

For other parts of India High Courts have been formed under other names, the chief difference being that they derive their authority from the Government of India, not from Parlia-ment. In the Punjab and Burma there are Chief Courts, with three or more judges; in the other provinces the chief appellate authority is an officer called the Judicial Commissioner. In Sind the Judicial Commissioner is termed Judge of the Sudder Court and has two colleagues.

The High Courts are the Courts of appeal from the superior courts in the districts, crimifrom the superior courts in the districts, criminal and civil, and their decisions are final, except in cases in which an appeal lies to His Majesty in Council and is heard by the Judicial Committee of the Privy Council in England. The High Courts exercise supervision over all The High Courts exercise supervision over all the subordinate courts. Returns are regularly sent to them at short intervals and the High Courts are able, by examining the returns, by sending for proceedings, and by calling for explanations, as well as from the cases that come before them in appeal, to keep themselves to some extent acquainted with the manner in which the courts generally are discharging their duties their duties.

Lower Courts.

The Code of Criminal Procedure provides for the constitution of inferior criminal courts styled courts of session and courts of magistrates. Every province, outside the Presidency towns, is divided into sessions divisions; consisting of one or more districts, and every consisting of one or more districts, and every sessions division has a court of session and a sessions judge, with assistance if need be. These stationary sessions courts take the place of the English Assizes, and are competent to try all accused persons duly committed, and to indict any punishment authorised by law; but sentences of death per subject to confirms. to limit any punishment authorised by law; but sentences of death are subject to confirmation by the highest court of criminal appeal in the province. Magistrates' courts are of three classes with descending powers. Provision is made and largely utilised in the towns; for the appointment of honorary magistrates; in the Province of the court in the Presidency towns Presidency magistrates deal with magisterial cases and benches of Justices of the Peace or honorary magistrates dispose of the less important cases.

Trials before courts of session are either Thus Defore courts of Session are themewith assessors as juries. Assessors assist, but do not bind the judge by their opinions; on juries the opinion of the majority prevails if accepted by the presiding Judge. The Indian law allows considerable latitude of appeal. The prerogative of mercy is exercised by the Governor-General-in-Council and the Local Government conserved without prejudge to

each district: as District Judge he presides in local Bar, and is always nominated a member its principal civil court of original jurisdiction; of the Provincial Legislative Council. In his functions as Sessions Judge have been described. For these posts members of the Indian and the Government Solicitor. There are Civil Service are mainly selected though some appointments are made from the Provincial Service. Next come the Subordinate Judges and Munsiffs, the extent of whose original jurisdiction varies in different parts of India. The civil courts, below the grade of District Judge, are almost invariably presided over by Indians. There are in addition a number of Indians. There are in addition a number of Courts of Small Causes, with jurisdiction to try money suits up to Rs. 500. In the Presidency Towns, where the Chartered High Courts have original jurisdiction, Small Cause Courts dispose of money suits up to Rs. 2,000. As Insolvency Courts the chartered High Courts of Calcutta, Bombay and Madras have jurisdiction in the Presidency towns. In the mofussi similar powers were conferred on the District Courts by the Insolvency Act of 1906.

Coroners are appointed only for the Presidency Towns of Calcutta and Bombay. Elsewhere their duties are discharged by the ordinary staff of magistrates and police officers unaided by jurors.

Legal Practitioners.

Legal practitioners in India are divided into Barristers-at-Law, Advocates of the High Court, Vakils and Attorneys (Solicitors) of High Courts, and Pleaders, Mukhtiars and revenue agents. Barristers and Advocates are admitted by each High Court to practise in it and its subordinate courts; and they alone are admitted to prac-tise on the original side of some of the chartered Vakils are persons duly qualified High Courts. who are admitted to practise on the appellate side of the chartered High Courts and in the Courts subordinate to the High Courts. At-torneys are required to qualify before admission to practise in much the same way as in England. The rule that a solicitor must instruct counsel prevails only on the original side of certain of the High Courts. Pleaders practise in the subordinate courts in accordance with rules framed by the High Courts.

Law Officers.

The Government of India has its own law colleague in the Legal Member of Council. All Government measures are drafted in this department. Outside the Council the prin-parts of the country, the object being to cipal law officer of the Government of India is the Advocate-General of Bengal, who is permit the application of certain enactments appointed by the Crown, is the leader of the only.

Shaf-ud-din, The Hon ble Mr. Saiyid, Bar-at-law. ..

and the Government Solicitor. There are Advocates-General and Government Solicitors for Bombay and Madras, and in Bombay there for Bombay and Madras, and in Bombay there is attached to the Secretariat a Legal Remembrancer and an Assistant Legal Remembrancer, drawn from the Judicial Branch of the Indian Civil Service. The Government of Bengal consults the Bengal Advocate-General, the Standing Counsel and the Government Solicitor, and has besides a Legal Remembrancer (a Civil Servant) and a Deputy Legal Remembrancer (a Full Servant) and a Deputy Legal Remembrancer (a practising barrister); the United Provinces are equipped with a civilian Legal Remembrancer and professional lawyers as Government Advocate and Assistant Government Advocate: the Punjab has a Legal Rement Advocate; the Punjab has a Legal Remembrancer, Government Advocate and a Junior Government Advocate; and Burma a Government Advocate; and Burma a Government Advocate, besides a Secretary to the Local Legislative Council.

Sheriffs are attached to the High Courts of Calcutta, Madras and Bombay. They are appointed by Government, selected from non-officials of standing, the detailed work being done by deputy sheriffs, who are officers of the Court.

Legislative Power.

The supreme power of Parliament to legislate. for the whole of India cannot be questioned. In practice, however, this power is little used, there being a majority of officials on the Imperial Legislative Council—a majority deliberately reserved in the India Councils Act of 1909—the Secretary of State is able to impose his will on the Government of India and to secure the passage of any measure he may frame, regardless of the opinion of the Indian authorities. Legislative Councils have been estatlished both for the whole of India and for the principal provinces. Their constitution and functions are fully described in detailing the powers of the Imperial and Provincial Councils (q. v.). To meet emergencies the Governor-General is vested with the power of issuing ordinances, having the same force as Acts of the Legislature, but they can remain in force for only six months. The power is very little used. The Governor-General-in-Council is used. The Governor-General-in-Council is also empowered to make regulations, having all the cogency of Acts, for the more backward

Ditto.

Bengal Judicial Department.

Jenkins, The Hon'ble Sir Lawrence Hugh, Rt., K.O.I.E... Stephen, The Hon'ble Sir Harry Lushington, Bar. at- Puisne Judge, Ditto. Teunon, The Hon'ble Mr. William, Lc.s. Woodroffe, The Hon'ble Mr. John George, M.A., Bar.-Ditto. at-Law. Mukharji, The Hon'ble Sir Ashutosh, Kt., C.S.I., M.A., D.L. Richardson, The Hon'ble Mr. Thomas William, 1.C.S., Ditto. Ditto. Ditto. Bar.-at-Law. Holmwood, The Hon'ble Mr. Herbert, I.C.S. Chitty, The Hon'ble Mr. Charles William, Bar. at-Law. Fletcher, The Hon'ble Mr. Ernest Edward, Bar. at Law. Ditto. Ditto. Ditto.

Bengal Judicial Department.-Contd.

Dengar sucrem popul :	
Coxe, The Hon'ble Mr. Henry Reynell Holled, I.C.S Carnduff, The Hon'ble Sir Herbert William Cameron,	Puisne Judge. Ditto.
O.I.E., I.O.S., Barat-Law. Chatarji, The Hon'ble Mr. Digamber, M.A., B.L.	Ditto.
Chatarji, The Hon'ble Mr. Nalini Ranjan, M.A., B.L Chaudhuri, The Hon. Mr. Asutosh, Barat-Law	Ditto. Ditto.
Beachcroft, The Hon'ble Mr. Charles Porten, I.C.S Mullick, The Hon'ble Mr. Basanta Kumar Imam, The Hon'ble Mr. Sayid Hassan, Barat-Law	Ditto. (Officiating Additional.) Ditto. Ditto. Ditto.
Chapman, The Hon'ble Mr. Edmund Pelly, I.C.S Kenrick, The Hon'ble Mr. George Harry Blair, K.C., IL.D., Barat-Law.	Ditto. Ditto. Advocate-General.
Mitra, Binod Chandra, Barat-Law Kesteven, Charles Henry	Standing Counsel. Government Solicitor.
Newbold, The Hon'ble Mr. B. B	Officiating Superintendent and Remembrancer of Legal Affairs.
Orr, John Williams, Barat-Law	Deputy Superintendent and Remembrancer of Legal Affairs.
Ram Charan Mitra	Senior Government Pleader. Public Prosecutor, Calcutta.
Hechle, James Herbert	Registrar, Keeper of Records, Taxing Officer, Accountant-General, and
Remfry, Maurice	Sealer, etc., Original Jurisdiction. Officiatingditto.
Nalini Mohan Chatarji, Barat-Law	Master and Official Referee.
Joyce, William Henry	Deputy Registrar.
Ryper, George Bonnaud, William Augustus, Ban-at-Law	Assistant Registrar (Offg. Dy. Regtr.) Clerk of the Crown for Criminal Sessions.
Cullis, Henry Thoreau, B.A., I. C. S	Registrar and Taxing Officer, Appellate
Counsell, Frank Bertram	Assistant Registrar.
Grey, Charles Edward, Barat-Law	Officiating Official Trustee and Official
Bonnerjee, K. K. Shelly, Barat-Law	Official Receiver, sub. pro tem
Dobbin, F. K., Barat-Law	
Stewart, F. H. Bose, B.D., Bar-at-Law	
Walte Thomas John	
	Secretary to the Chief Justice and Head Clerk Decree Department.
Bombay Judicial De	nartment
	har emone.

Scott, The Hon'hle Sir Basil, xt., M.A., Barat-Law Shah, The Hon'ble Mr. Lallubhai Asharam, M.A., LL.B.
Batchelor, The Hon'ble Sir Stanley Lockhart, Kt. B.A., I.C.S.
Davar, The Hon'ble Sir Dinsha Dhanjibhai, Kt., Bar. at-law.
Beaman, The Hon'ble Mr. Frank Clement Offley, I.O.S Heaton, The Hon'ble Mr. Joseph John, I.O.S.
McLeod, The Hon'ble Mr. Norman Cranstoun, B.A., Barat-Law. Strangman, Thomas Joseph, B.A., LL.B., Barat-Law
Percival, Philip Edward, B. A., Barat-Law
Nissim, Joseph, M.A., Ll.B., Bar-at-Law, 1.0.8 Nicholson, Eustace Ferrers
Slater, John Sanders, B.A., Barat-Law
Abdeali Muhammad Ali Kaziji, B.A., LL.B., Barat-Law.

Chief Justice. Puisne Judge.

Ditto.

Ditto.

Ditto.

Ditto.

Advocate-General. Remembrancer of Legal Affairs.

Assistant Remembrancer of Legal Affairs Government Solicitor and Public Prosecutor.

Administrator-General and Official Trustee. Prothonotary, Testamentary and Admiratty Registrar.

Bombay Judicial Department.-contd.

		F.		
Jijibhai Edalji Modi, Barat-Law		•••	Master and Registrar in Commissioner for taking Local Investigations,	Accounts and
Jijibhoy, The Hon'ble Sir Jamsetji			Officer. Sheriff.	
Elliot, Robert Ernest Algernon, I.C.S. Nasurwanji Dinshahji Gharda, B.A., I	L.B.		Registrar, Appellate Side. Deputy Registrar and Seale Side.	r, Appellate
Chalk, George Frederick	::	:: :	. Coroner.	
COURT OF THE	JUDICL	AL COMM	IIS SIONER OF SIND.	
Pratt, Edward Millard, I.c.s			. Judicial Commissioner.	
Fawcett, Charles Gordon Hill			. Acting Additional Judicial Co	ommissioner.
Hayward, Maurice Henry Weston, LL.	в., Bar	at-Law .		sioner, Act-
Boyd, Charles Clifford, I.c.s	••	. :	ing High Court Judge. Acting Additional Judicis sioner. (On special leave)	d Commis-
Madras	Judic	ial De	partment.	
White, The Hon'ble Sir Charles Arr	nold, Kt.	., Bar-at	- Chief Justice.	
Law. Oldfield, The Hon'ble Mr. Francis Du	Pre, 1.0	.s	. Puisne Judge.	
Wallis, The Hon'ble Sir John Edward	l Power,	Kt., M.A.	Ditto.	
Barat-Law. Nair, The Hon'ble Sir C. Sankaran, K. Abdur Rahim, The Hon'ble Mr., M.A., Ayling, The Hon'ble Mr. William Boc, Bakewell, The Hon'ble Mr. James Het	, Barat- k, 1.c.s.	Law	Ditto.	itional).
at-Law. Sadashiya Aiyar, The Hon'ble Mr.	Т., в.	A., M.L.	., Ditto. Temporary (Ade	iitional).
Dewan Bahadur. Faiz Hasan Badruddin Tyabji, The	Нов. М	(r., M.A.,	Ditto. (Officiating).	
Bar-at-Law. Seshagiri Ayyar, The Hon. Mr. T. V., Bahadur.			Offg. Judge, Temporary (Add	tional).
Corbet, Frederick Hugh Mackenzie, Be David, William Ontario	ırat-La	w	Government Solicitor	blic Protes
Napier, Charles F., Barat-Law		••	Government Pleader and Pucutor.	DHC FIOSC
Adam, John, M.A., Barat-Law Grant, P. R., Barat-Law Odgers, The Hon'ble Mr. C. E., M.A., E	Barat-L	aw	Crown Prosecutor. Law Reporter. Administrator-General and Trustee.	Officiai
Mackay, Charles Gordon, M.A., 1.0.S. Govindas Chatoorbhoojadas, Dewan B	ahadur .		Registrar. Sheriff.	
			epartment.	
Graham, John Fuller Jeffrles, Francis Joseph	:: :	: ::	Judge, Assam Valley Districts District and Sessions Judge,	, Gauhati. Sylhet and
Mukharji, Hari Prasanna, B.L.			Cachar. Additional District and Session Sylhet and Cachar.	ns Judge,
. Burma	Judicia	al Depa	artment.	
Fox, The Hon'ble Sir Charles Edmund,			Chief Judge, Chief Court, Lowe	r Burma-
Law. Hartnoll, The Hon'ble Sir Henry Suliv			Judge.	
Barat-Law. Ormond, The Hon'ble Mr. Ernest Willis			Judge. (On leave.)	
at-Law. Twomey, The Hon'ble Mr. Daniel Haro Barat-Law	ld Ryan,	1.0.6.,	Judge. (On leave.)	

Burma Judicial Department—contd. Robinson, The Hon'ble Mr. Sydney Maddock, Bar. -. Judge. (On leave.) Judge. (Officiating.) Parlett, The Hon'ble Mr. Leonard Montague Commissioner, Upper Burma. Shaw, Sir George Watson, C.S.I., I.C.S. . . (On leave.) Young, The Hon'ble Mr. Charles Philip Radford, B.A., Government Advocate. Bar-at-Law. Sen, Purna Chundra, Bar.-at-Law Official Assignee and Receiver, Rangoon. Christopher, S. A., Bar.-at-Law ... Darwood, Arthur John, Bar.-at-Law Government Prosecutor, Rangoon. ٠. Government Prosecutor, Rangoon. Government Prosecutor, Moulmein. Registrar, Chief Court, Lower Burma. Registrar, Court of Judicial Commissioner, Upper Burma. ٠. . . Casson, Randall, B.A., I.C.S. . . ٠. . . Millar, Edward Central Provinces Judicial Department. Drake Brockman, Sir H. V., M.A. LL. M., Bar-at-Law, Judicial Commissioner. Batten, J. K., I.C.S. Stanyon, H. J., C.L.E., V.D., A.D.C., Bar.-at-Law First Additional Judicial Commissioner. Second Additional Judicial Commissioner. Roughton, N. J., I.c.s. Registrar. Parande, K. G. Deputy Registrar. N.-W. Frontier Province Judicial Department. Dobbs, H. R. C., c.I.E., I.c.s. Judicial Commissioner. Muhammad Yakub, Mufti Registrar. Punjab Judicial Department. Kensington, The Hon'ble Sir Alfred, Kt., B.A., I.C.S. Johnstone, The Hon'ble Mr. Donald Campbell, I.C.S. .. Rattigan, The Hon'ble Mr. Henry Adolphus Byden, B.A., Chief Judge. Judge. (On leave.) Judge. Bar.-at-Law. Shah Din, The Hon'ble Mian Muhammad, Bar.-at-Law... Judge. Chevis, The Hon'ble Mr. William, I.c.s. Smith, The Hon. Mr. H. Scott, I.C.S. Shadi Lai, The Hon. Mr. Rai Bahadur, Bar-at-Law Gracey, S. W., B.A., I.C.S. First Temporary Additional (Judge.) Second Temporary Additional (Judge.) Legal Remembrancer. Petman, Charles Bevan, B.A., Bar.-at-Law Campbell, Archibald, B.A., 1.0.S. Government Advocate. Registrar. United Province Judicial Department. Richards, The Hon'ble Sir Henry George, Rt., Bar.-at-Law, K.C Knox, The Hon'ble Sir George Edward, Kt., LL.D., I.C.S. Chief Justice. Puisne Judge Banarji, The Hon'ble Sir Pramada Charan, Kt., B.A., B.L. Piggott, The Hon'ble Mr. Theodore Caro, I.C.S. Figgott, the mon die sir. Theodore Caro, Lo.S. Tudball, The Hon'ble Mr. William, Lo.S. Chamier, The Hon'ble Mr. Edward Maynard Des Champs, Bar.-at-Law. Rafiq, The Hon'ble Mr. Muhammad, Bar.-at-Law Murray, George Ramsay, Lo.S. Ashworth, The Hon'ble Mr. E. Hr., Lo.S. Ruvos Alfred Edward N. Bar. at-Law Ditto. Ditto. Ditto. Ditto. Ditto. Registrar. Byves, Alfred Edward, B.A., Bar.-at-Law Porter, Wilfred King, Bar.-at-Law Legal Remembrancer. Government Advocate. ٠. ٠. Law Reporter and Secretary, Legislative Lalit Mohan Banarji Council. Government Pleader. COURT OF JUDICIAL COMMISSIONER OF OUDH-LUCKNOW. Lindsay Benjamin, 1.c.s. .. Stuart, Louis, t.c.s. Judicial Commissioner. Rai Kanhaiya Lal, Bahadur First Additional Judicial Commissioner. Second Additional Judicial Commis-Shirreff, Alexander Grierson, I.C.S. sioner. Nagendra Nath Ghosal ٠. Registrar. Government Pleader.

	rty.		Suits un	der the R	ent Law.		1	Title	and other	Suits.	- 1	
Administrations.	Suits for Money or Moveable Property.	Arrears of Rent with or without Ejectments.	Enhancement or Abatement of Rent.	For Ejectment or Recovery of Possession alone.	All other Suit under the Rent · Law.	Total.	Suits for Immov- able Property.	Suits for Specific Relief.	Mortgage Suits.	Other Suits not falling under any of the preceding Heads.	Total.	Grand Total.
Bengal United Provinces Punjab North-West Frontier Province,	183,885 149,440 152,074 18,367	229,684	432	403	173	230,692	23,468 13,606 13,854 2,470	2,461 3,139 2,817 438	19,412 11,613 4,334 772		50,651 33,016 30,108 5,560	465,228 182,456 182,182 23,927
Burma Central Provinces and Berar.	69,551 89,125	10,188	::	826	7	10,521	1,861 8,268	580 1,125	2,586 5.520	1,760 457	6,787 15,370	70,338 115,016
Eastern Bengal & Assain . Ajmer-Merwara	216,646 7,366	172,610 326	229 135	1,159 8	84 7	174,152 471	19,620 211	4,835 6	13,427	3,194 158	41,076 875	431,874 8,212
Coorg Madras Bombay British Baluchistan	2,306 379,342 100,640 3,752	 ::		:: 1	3	 1 4	42 21,047 10,198 84	4,353 1,263 5	135 21,795 11,765 13	20 764 6,565 75	202 47,959 29,791 177	2,508 427,802 130,431 3,933
TOTAL, 1911	1,366,494	412,809	866	1,892	274	415,841	114,729	21,027	91,372	33,944	261,072	2,043,407
1910 1909 1908	1,377,428 1,358,105 1,286,837	391,541 847,214 849,043	807 934 728	1,894 2,096 1,785	2,315 2,146 896	396,557 352,390 351,952	120,995 119,726 112,136	21,798 22,653 23,428	177,183 107,892 101,298	41,446 40,242 39,377	361,422 290,513 276,239	2,135,407 2,001,008 1,915,028
TOTAL? 1907 1906 1905	1,253,034 1,243,596 1,186,223	335,135 357,178 357,660	839 1,076 6 90	1,647 1,473 1,458	4,134 3,570 4,182	341,755 363,297 363,990	100,635 106,450 95,527	23.418 21,488 19,340	103,967 108,678 105,850	86,186 36,697 83,550	273,206 273,313 254,267	1,867,995 1,880,206 1,804,480
1904 1903 1902	1,208,505 1,177,672 1,189,325	352,735 334,127 317,297	704 547 513	1,428 1,136 1,133	632 575 1,004	855,499 836,385 319,947	95,462 91,215 102,239	19,396 19,121 20,240	105,819 104,634 107,373	32,824 35,518 31,326	253,501 250,488 261,178	1,817,505 *1,767,995 *1,775,231

Details not given for 4,781 Bombay suits in 1902, and 3,450 in 1903.

THE INDIAN POLICE.

and located at various Outposts and Police Stations. The smallest unit for administrative purposes is the Outpost which generally consists of 3 or 4 Constables under the control of a Head Constable. Outpost Police are maintained to patrol roads and villages and to

The Indian Government employ 189,995 report all matters of local interest to their nen in the ranks of the Indian Police, who are controlled by 749 Gazetted European Officers. In large cities, the Force is concentrated and under direct European control; in the motivasi the men are scattered throughout each District on the period when the country was in a disturbed the men are scattered throughout each District to keep open communications and afford protection against the raids of dacoits. It is an open question whether they are now of much use. Each Outpost is under a Police Station which is controlled by an officer known as a Sub-Inspector.

Distribution of Police.—The area of a Police Station varies according to local conditions. The latest figures available are: -

						Average area per Police Station.	Average number o Regular Civil Police per 10,000 of Population.
						Square miles.	
Bengal *				 		138	4.4
Eastern Beng	al and	Assam		 		358	3.4
United Provi	nces			 		127	7.6
Punjab				 ٠.,		210	9.6
North-West	Frontie	r Provi	nce	 		179	18.5
Central Prov	inces a	nd Bera	r	 	`	275	8.6
Burma *				 	.,	500	13.1
Madras				 ٠.,		106	7.8
Bombay *				 • •		290	12.9

^{*} Excluding the towns of Calcutta, Bombay and Rangoon. The figures include the Railway police, but not Military police.

Organisation of Police.

tor) is responsible for the investigation of all cognisable crimes, that is to say, all offences in which the Police can arrest without a warrant from a Magistrate, which occur within his jurisdiction; he is also held responsible for the maintenance of the public peace and the prethe indian Ryot, he is the most important Police Officer in the District and may rightly be considered the backbone of the Force.

Superior to the Sub-Inspector is the Inspector who holds charge of a Circle containing 4 or 5 Police Stations. His duties are chiefly those of supervision and inspection. He does not ordinarily interfere in the investigation of crime unless the conduct of his subordinates renders this necessary.

The Police Station Officer (the Sub-Inspec-pr) is responsible for the investigation of all of which is given to an Assistant SuperInten-phich the Police can arrest without a warrant The Police force in each District is controlled on a Magistrate. which occur within his law Busting Superintendent of Police, who is by a District Superintendent of Police, who is responsible to the District Magistrate (Collector or Deputy Commissioner) for the detection and prevention of crime and for the maintenance of the public peace, and, to his Deputy Inspector-General and Inspector-General, for the internal administration of his Force. Eight or ten Districts form a Range administered by a Deputy Inspector-General, an officer selected from the ranks of the Superintendents. At the head of the Police of each Province is the Inspector-General who is responsible to the Local Government for the administration of the Provincial Police.

The Inspector is usually a selected and experienced Sub-Inspector. Each District confains 3 or 4 Circles, and in the case of large selected European Officer of the rank and

standing of a Deputy Inspector-General. The Criminal Investigation Department, usually called the C. I. D., is mainly concerned with political inquiries, sedition cases and crimes with ramifications over more than one District or which are considered too important to leave in the hands of the District Police. It is a small force of Sub-Inspectors and Inspectors who have shown their ability and intelligence when working in the mofussil and forms in each Province a local Scotland Yard.

The larger Cities of Calcutta, Bombay, and Madras have their own Police Force, independent of the Inspector-General of Police, and under the control of a Commissioner and 2 or more Deputies. The latter are selected Superintendents who have learnt their work in the mofussil. For Police purposes, the City area is divided into divisions under the control of non-gazetted European officers, styled Superintendents but not to be confused with District Superintendents. Each division contains a number of Police Stations controlled as in the mofussil, by Inspectors and Sub-Inspectors. A comparatively small number of Europeans are recruited in cities from British regiments for the control of traffic. They have no powers of investigation.

The Supreme Government at Delhi and Simla keeps in touch with the Provincial Police by means of the Director of Criminal Intelligence and his Staff. The latter do not interfere in the Local Administration and are mainly concerned with the publication of information regarding international criminals, interprovincial crime and Political inquiries in which the Supreme Government is interested.

Recruitment.—The constable is enlisted locally. Certain castes are excluded from service and the formation of cliques by filling up the Force from any particular caste or locality is forbidden. In some Provinces a fixed percentage of foreigners must be enlisted. Recruits must produce certificates of good character and pass a medical test. They must be above certain standards of physical development. The constable rises by merit to the rank of Head Constable and, prior to the Police Commission, could rise to the highest Indian subordinate appointments. Since 1906, his chances of promotion have been greatly curtailed; this has certainly lowered the standard coming forward for service in the Force in the lower ranks.

The Sub-Inspector, until 1906, was a selected Head Constable, but Lord Curzon's Commission laid down that Sub-Inspectors should be recruited direct from a socially better class of Indians. In most Provinces, eighty per cent. of the Sub-Inspectors are selected by nomination, trained for a year or 18 months at a Central Police School, and, after examination, appointed direct to Police Stations to learn their work by actual experience. It is too early to judge this system by results, but it has no doubt great disadvantages and undetected crime in India is increasing rapidly.

An Inspector is generally a selected Sub-Inspector. Direct nomination is the exception, not the rule. The Deputy Superintendent, a new class of officer, instituted on the recommendation of the Commission, is an Indian gazetted officer and is the native Assistant to the District Superintendent of Police. He is either selected by special promotion from the ranks of the Inspectors or is nominated direct, after a course at the Central Police School.

Prior to 1893, the gazetted ranks of the Force were filled either by nomination or by regimental officers seconded from the Army for certain periods. In 1893, this system was abandoned and Assistant Superintendents were recruited by examination in London. On arrival in India they were placed on probation until they had passed their examinations in the vernacular, in law, and in riding and drill. The establishment of Police Training schools in 1908 has done much to improve the training of the Police Probationer, and selection by examination has given Government a better educated officer, but open competition does not reveal the best administrators and should be tempered, as in the Navy, by selection.

Pay.—The monthly salaries drawn by each grade of Police Officer are as follows:—

A constable draws from . Rs. 10 to 12.
A Head Constable draws . . , 15 to 20.
A Sub-Inspector from . . , 50 to 100.
An Inspector from . . , 150 to 250.
Deputy Superintendents from . , 250 to 500.

Deputy Superintendents from ..., 250 to 500.

Assistants from ..., 300 to 500.

District Superintendents of Police from ..Rs. 700 to 1,200.

Deputy Inspectors-General

from Rs. 1,500 to 1,800.
Inspectors-General from Rs. 2,000 to 8,000.

The appointments of Commissioner of Police, Calcutta, Bombay, and Madras and all Provvincial Inspectors-General, may be held by a member of the Indian Civil Service if no Police Officer is found suitable for such appointments.

Internal Administration.—The District Torce is divided into 2 Branches—Armed and Consist of guarding Treasuries, escorting treasure and prisoners and operating against dangerous gangs of dacoits, they are maintained and controlled on a military basis. They are armed and drilled and taught to shoot after military methods. The unarmed branch are called upon to collect fines magisterially inflicted, serve summonsea and warrants, control traffic, destroy stray dogs, extinguish fires, enquire into accidents and non-cognizable offences. The lower grades are clotted and housed by Government without expense to the individual. The leave rules are fairly liberal, but every officer, European or Native, must serve for 30 years before he is entitled to any pension, unless he can obtain a medical certificate invaliding him from the service. This period of service in an Eastern climate is generally admitted to be too long and the efficiency of the Force would be considerably improved if Government allowed both the officers and men to retire after a shorter period of service.

Statistics of Police Work.

The undesirability of attaching undue importance to statistical results as a test of the Indian Police Commission, who referred to the evils likely to result from the prevalence among subordinate officers of an impression that the advancement of an officer would depend upon his being able to show a high ratio of convictions, both to cases and to persons arrested, and a low ratio of crime. The objection applies more particularly to the use of statistics for small areas; but they cannot properly be used as a basis of comparison even for larger areas without taking into account the differences in the conditions under which the police work; and, it may be added, they can at the best indicate only very imperfectly the degree of success with which the police carry out that important branch of their duties, which consists in the prevention of crime. These considerations have been emphasized in recent orders of the Government of India. Subject to these observations, the figures below, which relate to cognisable crime only, may be given as some indication of the volume of work falling upon the police, and of the wide differences between the conditions and the statistical results in different provinces:—

<u> </u>	Cases reported during the year.	Cases in which Investigation was refused.	Cases proved or declared to be False.	Cases due to Mistakes of Law or Fact or declared non-cognisable.	Cases ending in Conviction.	Cases ending in Discharge or Acquittal.	Cases not Detected or Appre-
Bengal	167,200	6,553	2,826	9,476	97,618		
Eastern Bengal and Assam	54,512	12,255	1,636	5,180	12,909	1,984	19,528
United Provinces	150,250	68,495	2,981	905	37,271	4,614	
Punjab	56,497	64	3,386	5,231	21,429	6,058	18,952
North-West Frontier Province	5,834	58	327	654	2,377	901	1,487
Central Provinces and Berar .	25,338	10,148	1,044	170	5,974	2,116	
Burma	69,232	1,394	5,298	15,543	34,170	3,042	8,724
Madras	169,646	1,830			124,833	9,257	17,129
Bombay	78,964	2,276		'	49,733	2,291	12,465
Total British India, 1911	784,067	103,715		· 1	391,238	34,812	163,599
[1909	768,841	119,331	23,917	57,684	381,219	35,552	148,279
Total 1907	796,848	141,326	23,632	55,748	393,633	35,003	138,824
[1905]	789,241	120,052	24,860	-	408,271	38,396	133,454

The form of the returns having been altered in 1905, corresponding figures for earlier years are not available.

One or two notes in explanation of noticeable features of the above table will at the same time serve to illustrate the difficulty of drawing inferences of a general nature from the figures. The very large proportion of convictions in Madras is due to the preponderating influence of cases under the head "public and local nulsances," of which 110,350 were reported in 1911, all but a small percentage ending in conviction. In Bengal and Bombay offences under special and local laws in the Presidency towns colour in the same way the total figures for the province. The very numerous cases in the United Provinces in which investigation was refused were

almost all under the heads of lurking, housetrespass and common theft; the proportion of cases fell continuously in the last four years of the decade, but it is considered that investigation is still not infrequently refused in cases in which it should be made.

The statistics in regard to stolen property show that property is recovered on an average in something like 40 per cent. of cases, while the total value of property recovered is generally about one-fourth of the value of property stolen. The figures vary considerably from province to province from year to year. In 1911; the value of property recovered was £ 256,000, and the total value of property reported as stolen being £1,118,000.

PRINCIPAL POLICE OFFENCES.

Administrations.	Offences against the State and Murder, Public Tranquility.		Other serious Offences against the Person.		CASES. Dacoity.		Cattle Theft.		Ordinary Theft.		House-trespass and Housebreak ing with intent to commit Offence.			
	Reported.	Convic- tion obtained.	Reported.	Conviction tion obtained.	Reported.	Convic- tion obtained.	Reported.	Conviction tion obtained.	Reported.	Convic- tion obtained.	Reported.	Convic- tion. obtained.	Reported.	Conviction tion obtained.
Bengal Calcutta Town and Suburbs.	1,757 84	654 40	338 16	49 2	5,323 702	1,201 169	232 1	36 .2	1,715 84	609 23	28,521 4,751	5,638 1,437	34,948 1,127	2,51 27
United Provinces Punjab NWest Frontier Pro- vince.	1,321 1,766 231	660 465 104	653 594 284	230 189 172	7,959 6,828 1,393	2,677 1,841 503	662 146 90	90 23 26	5,861 8,389 208	1,177 891 33	39,288 10,497 1,044	5,545 2,786 328	74,399 21,099 1,946	4,44 2,15 28
Burma Rangoon Central Provinces and Berar.	545 26 421	321 11 214	562 9 244	149 1 106	10,032 285 2,040	2,984 88 758	221 5 58	49 1 9	5,724 ·· 850	1,471 365	15,277 1,287 11,675	5,677 612 1,687	7,955 164 7,637	2,64 6 1,05
Eastern Bengal and Assam.	2,532	987	313	59	5,063	1,226	197	21	810	287	16,546	2,868	27,687	2,03
Coorg Madras Bombay Bombay Town and Island.	1,744 1,851 89	598 829 70	10 667 461 12	140 168 11	5,067 4,041 531	11 1,276 1,107 282	638 203	 88 22	16 4,111 8,234	1,196 728	158 20,041 12,753 4,466	53 4,575 3,821 2,474	24 17,003 10,158 1,127	2,47 1,75 85
TOTAL, 1911	11,873	4,456	4,163	1,281	49,308	14,123	2,454	367	25,952	6,789	166,304	87,501	205,274	20,06
TOTALS 1910 1908 1908 1907 1907 1906 1905 1904 1903 1902	11,700 11,919 12,411 12,181 12,386 12,318 14,889 15,528 15,350	4,599 4,614 4,797 4,454 4,490 4,456 4,619 4,453 5,103	4,031 3,885 4,014 3,608 3,555 3,386 3,448 3,340 8,144	1,092 1,143 1,203 1,106 1,090 1,048 1,001 1,103 1,109	47,750 44,960 43,838 42,921 42,993 43,828 49,999 47,805 45,538	13,749 12,947 12,678 12,506 12,452 12,920 13,577 12,576 13,326	2,984 2,360 2,085 2,276 2,209 2,339	369 453 659 428 419 434 379 443 652	27,237, 27,833; 29,456 27,809 27,577 25,847 25,553 23,683 26,502	7,710 8,927 7,492 7,831 7,038 5,850 6,657	159,280 169,451 194,246 178,898 184,915 174,091 138,838 129,394 171,045	87,279 40,872 48,448 41,173 45,112 40,401 86,525 35,644 41,475	199,604 207,283 236,280 212,299 203,701 194,232 138,998 136,805 126,167	19,78 21,29 24,97 21,67 22,65 21,76 20,03 18,56 16,08

JAILS.

Sail administration in India is regulated | —the law provides alternatives to imprisonment, generally by the Prisons Act of 1894, and by rules issued under it by the Government of India and the local governments. The punishments authorised by the Indian Penal Code for convicted offenders include transportation, penal servitude, rigorous imprisonment (which may include short periods of solitary confinement), and simple imprisonment. Accommodation has also to be provided in the jails for civil and under-trial prisoners.

There are three classes of jails: in the first place, large central jails for convicts sentenced place, large central jaus for convicts sentenced to more than one year's imprisonment; secondly, district jails, at the head-quarters of districts; and, thirdly, subsidiary jails and "lock-ups" for under-trial prisoners and convicts sentenced to short terms of imprisonment. The jail department in each province is under the control of an Inspector-General; the is generally an officer of the locking Medical he is generally an officer of the Indian Medical Be is generally an omicer of the initian meanical Service with jail experience, and the Superintendents of certain jails are usually recruited from the same service. The district jail is under the charge of the civil surgeon, and is frequently inspected by the district magistrate. The staff under the Superintendent includes, in large central jails, a Deputy Superintendent to supervise the islumentifactures and in all central staff. vise the fail manufactures, and in all central and district jails one or more subordinate medical officers. The executive staff consists of jailors and warders, and convict petty officers are employed in all central and district jails, the prospect of promotion to one of these posts being a strong inducement to good behaviour.

Employment of Prisoners.—The work on which convicts are employed is mostly carried on within the jail walls, but extra-mural employment on a large scale is sometimes allowed, as, for example, when a large number of convicts were employed in excavating the Jhelum Canal in the Punjab. Within the walls prisoners are employed on jail service and repairs, and in workshops. The main principle laid down with regard to jail manufactures is that the work must be penal and industrial.

The industries are on a large scale, multifarious employment being condemned, while care is taken that the jail shall not compete with local traders. As far as possible industries are adapted to the requirements of the consuming public departments, and printing, tent-making, and the manufacture of clothing are among the and the manufacture of couning are among the commonest employments. Schooling is confined to juveniles; the experiment of teaching adults has been tried, but literary instruction is unsuitable for the class of persons who fill

The conduct of convicts in jail is generally good, and the number of desperate characters among them is small. Failure to perform the allotted task is by far the most common offence. In a large majority of cases the punishment inflicted is one of those classed as "minor."
Among the "major" punishments fetters take the first place. Corporal punishment is inflict-ed in relatively few cases, and the number is steadily falling

and it is strictly enjoined that boys shall not be sent to jail when they can be dealt with otherwise. The alternatives are detention in a reformatory school for a period of from three to seven years, but not beyond the age of 18; discharge after admonition; delivery to the parent or guardian on the latter executing a bond to be responsible for the good behaviour of the culprit; and whipping by way of school discipline.

The question of the treatment of "young adult" prisoners has in recent years received much attention. Under the Prisons Act, prisoners below the age of 18 must be kept separate from older prisoners, but the recognition of the principle that an ordinary jall is not a fitting place for adolescents (other than youthful habituals) who are over 15, and therefore ineligible for admission to the reformatory school, has led Local Governments to consider schemes for going beyond this by treating young adults on the lines followed at Borstal, and considerable progress has been made in this direction. In 1905, a special class for selected juveniles and young adults was established at the Dharwar jail in Bombay; in 1908 a special juvenile jail was opened at Alipore in Bengal; in 1909 the Meiktlia jail in Burma and the Tanjore jail in Medrea were set acids for addressment and in Madras were set aside for adolescents, and a new jail for juvenile and "juvenile adult" convicts was opened at Bareilly in the United Provinces; and in 1910 it was decided to con-Provinces; and in 1910 it was decided to concentrate adolescents in the Punjab at the Lahore District jail, which is now worked on Borstal lines. Other measures had previously been taken in some cases; a special reformatory system for "juvenile adults" had, for example, been in force in two central jails in the Punjab since the early years of the decade, and "Borstal enclosures" had been established in some jails in Bengal. But the public is slow to appreciate that it has a duty towards prisoners, and but little progress has been made in the and but little progress has been made in the formation of Prisoners' Aid Societies except by the Salvation Army.

Reformatory Schools.—These schools have been administered since 1899 by the Education department, and the authorities are directed to improve the industrial education of the inmates, to help the boys to obtain employment on leaving school, and as far as possible to keep a watch on their careers.

Transportation.—Transportation is an old punishment of the British Indian criminal law, and a number of places were formerly appointed for the reception of Indian transported convicts. The only penal settlement at the present time is Port Blair in the Andaman Islands. Under existing rules convicts sentenced to transportation for life, or for a term of years of which six have still to run, may be transported to the Andamans, subject to their being physically fit, and to some other conditions in the case of women. The sanctioned scheme contemplates five stages in the life of a male transported convict, the first six months being passed in a cellular jail, the next eighteen months in association is a second to the convict of the convic Juvenile Prisoners.—As regards "youth-ul offenders"—i.e., those below the age of 15

labour by day and confined in barracks by night. Having thus completed five years, a gricu convict may be promoted to the second class, in which he is eligible for employment in the various branches of the Government services or in the capacity of servants to a private resident. 'After five years so spent, a well-behaved convict enters the first class, in which he labours under more favourable conditions, or is granted a ticket enabling him to support himself, with a plot of land. He may now send for his family or marry a female convict. The three later stages of this discipline have been in force for many years, and the first for some time, the cellular jail having been finished in 1905; but the associated jail for the second stage has not yet been built. Females are kept at intramural work under strict jail discipline for three years; for the next two years they are subjected to a lighter discipline, and at the end of five years they may support themselves or marry. Promotion from class to class depends on good conduct. The convicts are employed in jail service, in the erection and repair of jail build-

lings, in the commissariat, medical, marine, and forest departments, in tea-gardens and at other agricultural work, and in various jail manufactures. Ordinary male convicts sentenced to transportation for life are released, if they have behaved well, after twenty years, and persons convicted of dacotty and other organised crime after twenty-five. Thags and professional prisoners are never released after fifteen years. The release is sometimes absolute and sometimes, especially in the case of dacotts, subject to conditions, e.g., in regard to residence. In some cases released convicts prefer to remain in the settlement as free persons. The settlement is administered by a superintendent, aided by a staff of European assistants and Indian subordinates. The convict population of Port Blair amounted in 1912 to 11,235. consisting of 10,633 males and 602 females, of whom 1,568 and 272 respectively, mostly occupied as cultivators, were "self-supporters." The total population of the settlement was 15,613.

The variations of the fail population in British India during five years are shown in the following table:—

	1912.	1911.	1910.	1909.	1908.
Jail Population of all classes on 1st	91,241	102,429	103,363	103,784	101,336
January Admissions during the year	487,472	463,282	474,241	489,051	520,377
Aggregate	578,713	565,711	577,604	592,835	021,713
Discharged during the year from all causes	477,464	474,464	475,183	480,481	517,930
ail population on 31st December	101,249	91,247	102,421	103,354	103,783
Convict population on 1st January	79,420	91,505	92,605	91,819	89,457
Admissions during the year	158,762	152,396	154,973	160,391	173,175
Aggregate	238,182	243,901	247,578	252,210	262,632
teleased during the year	144,674	151,935	154,769	157,076	168,599
lasualties, &c	3,461	3,360	3,406	3,528	3,629
onvict population on 31st December.	88,914	79,668	91,271	91,606	90,404

Nature of Sentences.—Over one-half of the total number of convicts received in falls uring the year came from the classes engaged in agriculture or cognate pursuits. About 127,500 were illiterate. The percentage of previously convicted prisoners fell 16:3 to 14:5, while there was a decrease of 43 in the number of youthful offenders. The following statistics show, in round figures, the nature and length of the sentences imposed during the year —Not exceeding one month 48,500; above one month and not exceeding six months, 61,500; above six months and not exceeding one year, 27,500; above one year and not exceeding the years, 20,500. The remainder were major sentences, viz. —2,338 for terms above five and not exceeding ten years; 1236 for terms were major sentences, viz. —2,338 for terms above five and not exceeding ten years; 12,768 to transportation beyond seas; and 757 to death. Consonantly exceeding ten years; 1,768 to transportation beyond seas; and 757 to death. Consonantly exceeding the years additionally the property of the property of the years and 757 to death. Consonantly exceeding the years and years of the average daily strength, the number of offences committed by convicts fell; and there was a decrease of about 4,000 in serious offences dealt with by major punishments.

Executive and Judicial Functions.

Throughout the history of political that the relatively high standard of justice agitation in India, few matters have received attained by the subordinate magistracy in more consistent attention than the question of the separation of the Judicial and the Executive functions. It has been one of the principal planks in the political platform of the National Congress since its inception in 1885, and has received the support of men of every shade of political opinion, from the most violent Extremist to the most conciliatory Moderate.

The question arises from the fact that the Indian Administration is based on the Oriental view that all power should be concentrated in the hands of a single official. Thus the District Magistrate is the chief revenue authority in the District, he controls local boards and municipalities, and directs the Listrict Police, and, in fine, almost every department within the District is to a large extent under his influence. Sessions trials and Civil Justice fall within the province of the District Judge, but there remains under the District Magistrate's orders a body of subordinate Magistrates who dispose of simple criminal cases, and commit graver ones to the Sessions.

The opponents of the existing system are ant to rely largely on ad capitandum phrases, like "the maintenance of judicial independence," and "a violation of the first principles of equity," rather than to specify exactly what points they really consider objectionable. It appears, however, that there are two main items in the District Magistrate's position to which exception is taken: one is that he is executive head of the District with direct control of the police, has the power of trying cases; the other is that the subordinate Magistrates, who try the great majority of cases, are directly under him, receive his orders, and rely on his good opinion for their promotion.

As regards the first point, the number of cases actually tried by the District Magistrate is exceedingly small. Sir Charles Elliott defending the existing system in 1896, said:—
There are many Districts in Bengal in which close the property of the proper "There are many Districts in Bengal in which he does not try 12 cases a year." Since 1896 miscellaneous work has increased so much that even this small number has been greatly reduced. In fact, in Bombay to-day the majority of District Magistrates probably go through the year without trying a single case, and the difference would hardly be noticeable if the District Magistrate altocether lost his if the District Magistrate altogether lost his powers to try cases. The power is, however, sufficiently useful on occasions to outweigh the fear of harm arising from any abuse of that power on the rare occasions when it is used.

The more important item of the District

The more important item of the District Magistrate's power, that of control over his subordinates Magistrates, is attacked on the ground that he interferes with their "judicial independence." It is here assumed that control and interference are one and the same that conthing. If the District Magistrate said to his subordinate; "I consider this man guilty, and I expect you to convict him," there would be very real cause for complaint. But interference of this type does not occur, and is not alleged. It has been said that inspection is to the District Officer the very breath of his nostrils, and it is very largely to his continual inquisitiveness into the work of his subordinates," whose sole aim is or should be justice,

attained by the subordinate magnetacy in India is due. The points towards which his inquiries are most frequently directed are matters like want of sense of proportion in sentences; delays and irregularities in procedure: subservience to the interests of a local bar: prolixity in judgments and so forth. It control of the Magistracy were exercised only by the District Judge, who is practically tied to his bench, this supervision would be impossible, and the only check on the subordinate Magistrates would be occasional strictures passed by the Judge in appeal or on revision.

The opponents of the existing system would substitute for the present Magistracy trained lawyers, whose sole work would be that of sti-pendiary magistrates. There is no reason to suppose that the trained lawyer would be any less liable to the faults mentioned above. Nor is the Magistrate of to-day altogether untrained. The criminal law of India is to a very large extent independent of customary and case law, and is based on comparatively simple codes. Every official Magistrate is examined in these codes, and with a few years' experience, he is often a match in argument for all but the best of the local vakils. It is not, therefore, apparent that any gain would result from this change, while the increased charge

to the public revenues would be enormous.

In 1899, the movement against the existing system culminated in a "memorial on the proposed separation of the Judicial and Exeproposed separation of the Judicial and Exe-cutive duties in India," addressed to the Secretary of State, and signed by ten Indian gentlemen—mostly high judicial authorities. This memorial sets forth eight objections to the existing system, and it may perhaps be in-structive to examine these seriatim, and to indicate with respect to each point the grounds on which an apology for the present system may be based;-

(1) "That the combination of judicial with executive duties in the same officer violates the first principles of equity.

If the same officer actually brought an offendre to justice, and then tried him personally; the above theoretical objection might have considerable weight. In practice, however, as has been shown above, this does not occur; and the combination of functions in the District Officer is governed in such a way by criminal codes that the interests of accused persons

are effectually safeguarded.
(2) "That while a judicial authority ought (2) "That while a judicial authority oughts to be thoroughly impartial, and approach the consideration of any case without previous knowledge of the facts, an Executive Officer does not adequately discharge his duties, unless his cars are open to all reports and information which he can in any degree employ for the benefit of the District."

rather than by a police officer whose professional zeal might weigh hardly on the innocent suspect, and whose esprit de corps might shield a corrupt or unscrupulous subordinate from justice.

(3) "That Executive Officers in India, being responsible for a large amount of miscellaneous business, have not time satisfactorily to dis-

pose of judicial work in addition.'

pose of judicial work in addition.

By this it is presumably meant that the Executive Officer is at present overworked. This is quite possible, but the remedy would appear to lie rather in an increase of staff than in a re-distribution of functions, which is that a good and remedy the Adore.

in itself could not remedy the defect.
(4) "That, being keenly interested in carrying out particular measures, they are apt to be brought more or less into conflict with individuals, and therefore that it is inexpedient that they should also be invested with judicial

powers.

It is implied here that the District Officer may use his judicial powers to enforce the executive measures in which he is interested. is not unknown for a District Magistrate to issue orders to subordinates enjoining severe sentences in particular classes of cases and this may have reference to a particular executive policy (e.g., such orders might be issued with regard to smuggling cases in a District where the illicit traffic in cocaine was rife). But it by no means follows that any injustice will result from such a line of action. Moreover, if this kind of "Interference" by the District Magistrate were stopped, the only alternative left to Government, in cases where they wished specially to repress a particular type of crime, would be to amend the criminal codes by raising the mini-mum penalty for the offence, thereby depriving Magistrates of all discretion in the matter.
(5) "That under the existing system Col-

lector-Magistrates do, in fact, neglect judicial

for executive work.'

It is not at first sight obvious how this can be urged as an objection to the fact that they do both types of work. It is true, as already stated, that the District Magistrate, tries very few original cases, but it by no means follows that what judicial work he does, is done negligently.

"That appeals from revenue assessments are apt to be futile when they are heard by

Revenue Officers."

It is insinuated that all revenue matters should be decided by the operation of the weighty and complicated machinery of the Civil Courts. The idea of such a system in India, where three-quarters of the population are dependent on revenue-paying land, conjures up such a nightmare of confusion, that the imagination positively reels. The cost would be colossal. Nor is the objection really relevant. The Revenue Officer when hearing appeals from executive acts of his subordinates, is still an Executive and not a Judicial Officer. and what is here aimed at is a revision of the scheme of matters, which the law allows to be dealt with executively, rather than a separa-

tion of the two functions.
(7) "That great inconvenience, expense and sufferings are imposed upon suitors required to follow the camp of a Judicial Officer, who, in the discharge of his executive duties, is making a tour of his District."

This is perhaps one of the least convincing ent of this control.

objections advanced against the existing system. In the first place a Magistrate in headquarters is likely to be at least as far from the homes of suitors, as he is in camp. The careful Magistrate, moreover, will arrange the hearing of cases at places which suit the convenience of parties as far as possible, and considerable trouble and expense are often saved to parties in this way. If all judicial work were done by Magistrates who had no other work, the number of Magistrates would be much reduced, and it is obvious that three resident Magistrates in a District must be much less accessible than a dozen or more who are continually moving about among the agricultural population. The only people who really are inconvenienced by the touring of a Magistrate are the pleaders.
(8) "That the existing system not only

involves all whom it concerns in hardships and inconvenience, but also by associating the judicial tribunal with the work of the Police and of detectives, and by diminishing the safeguards afforded by the rules of evidence, produces actual miscarriages of justice and creates, though justice be done, oppor-tunities of suspicion, distrust and discontent

which are greatly to be deplored."

It is difficult to answer so general and in-

definite an objection as this, except by flat denial. It may, however, be said that if miscarriages of justice, due to this cause, were at all frequent they could never long remain hid, and much more would be heard of them than is actually the case. In 1896, Mr. Manomohan Ghose, a Bengali lawyer of repute, drew up a memorandum containing an account of 20 cases, which had come to his notice in the course of a long experience at the bar, and in which he alleged that injustice had resulted from the union in one officer of the judicial and executive functions. These instances were discussed by Sir Charles Elliott, formerly Lieutenant-Governor of Bengal, in an article in the Asiatic Quarterly Review for October 1896, and his analysis robs this evidence of nearly the whole of its weight.

These then are the main objections which have been raised against the existing system. It may well be asked why, if these objections are groundless, has there been such unanimity in the opinions expressed by reformers. There are perhaps two reasons which are mainly responsible. Firstly, it is beyond question that the proposed separation would everywhere weaken the Collector's position, and thereby that of the British Raj; and secondly, those who desire the separation belong almost without exception to the class from which lawyers are most largely recruited. The separation would not merely provide innumerable stipendiary billets, holders of which would have to be recruited from among the lawyers, but an immense increase of litigation would also result.

There is no doubt that over the greater There is no doubt that over the greater part of India, the common people place a very real confidence in the Magistracy, and this confidence is largely based on the wise and effective control exercised by District Magistrates over their subordinates. Nor is there any doubt that the common people would view with the most intense alarm any proposal which would readed the mediators in the control of the control which would render the magistracy independ-

The Laws of 1914.

BY

RATANLAL AND DHIRAJLAL

(Editors of the Bombay Law Reporter.)

The Legislative Session which met at Delhi in the early part of this year had not much arduous work to do. The Bills brought up before it were for the most part of a non-controversial character.

The Civil Procedure Code Amendment Act.—This Act enables the High Court in the Presidency Towns to extend such provisions of the Civil Procedure Code of 1908 to the Presidency Courts of Small Causes, as are not inconsistent with the express provisions of the Presidency Small Cause Courts Act (XV of 1882); and by adding a subclause to s. 67 of the Code, removes any doubt which may exist as to the validity of the rules already made by the High Court under s. 9 of the Presidency Small Cause Courts Act.

The Destructive Inspects and Pests Act.—This, the second Act, is the ontcome of the representations made by the Bombay Chamber of Commerce to the Government of India. It enables Government to prohibit or regulate the import into British India of any article likely to cause infection to any crop.

The Indian Copyright Act.—The third Act of the year largely concerns authors and publishers. Before its cnactment, the law on the subject was contained in Act XX of 1847, which, besides being archaic, was wholly unadapted to the modern conditions of life. Even in England, the statute law on the subject had fallen behind legislation on the Continent. An International Conference, therefore, met in 1908, for bringing the domestic laws of all countries concerned into harmony with one another so as to obtain international uniformity of treatment. To carry out the resolutions of this conference, an Imperial Copyright Conference was convened in 1910 containing representations of the selfgoverning dominions and of the India Office, Colonial Office, etc. As a result of their deliberations, the Euglish Copyright Act of 1911 was passed which came into operation there in the passed which came into operation there on the list July 1912. The provisions of that Act were extended to India on the 31st October 1912, by a proclamation issued in the Gazette of India. The object of the present Act is to re-enact the English Copyright Act in the Country with certain prodifection which the country, with certain modifications which will be noticed hereafter. The English Act is set out in a Schedule to the Act. Among the momentous changes effected by the English Act, may be mentioned: (1) the abolition of the formality of registration of Copyright; (2) the extension of the term of copyright from lorty-two years to one of the and fifty years subject to certain conditions. The Act larges the import of the term 'copyright'. Act en-

the case of a lecture to deliver, the work or any and case of a secture to deliver, the work of any substantial part thereof in public; if the work is unpublished, to publish the work or any unsubstantial part thereof. The term also includes the right (1) to produce translation of the work: (2) in the case of a dramatic work. to convert it into a novel or other non-dramatic work; (3) in the case of a novel or other non-dramatic or artistic work, to convert it into a dramatic work, by way of performance in public or otherwise, and (4) in the case of a literary, dramatic or musical work, to make any record, dramatic or musical work, to make any record, perforated roll, cinematograph film, etc. Section 3 extends the term of the Copyright to the life of the author and fifty years after his death. But after the expiry of twenty-five years, any person can reproduce the work, after giving notice of his intention to reprint to the owner of the Copyright and on giving to him a royalty at the rate of ten per cent. on the price at which the re-published work is sold. In the case of ioint authors, the term sold. In the case of joint authors, the term subsists during the life of the author who dies first and for fifty years after his death or during the life of the author who dies last whichever period is the longer, (s.16). Posthumous works are protected for a term of fifty years from the date of their publication (s. 17); and a similar date of their publication (s. 17); and a similar provision has been made for Government publications (s. 18). A term of fifty years duration is established for "records, perforated rolls, and other contrivances by means of which sounds may be mechanically reproduced" (s. 19). Copyright in photographs subsists for fifty years from the making of the original negative (s. 21). The Act does not protect an address of a political nature delivered at a public meeting: it can be immediately published in a newspaper (s. 20.) Nor does it apply to designs capable of being registered under the Patents and Designs Act, 1907 (s. 22). No copyright protection is afforded to works by foreign authors whose country does not give adequate protection to the work of on worse by loreign authors whose country does not give adequate protection to the work of British authors (s. 23.) As remarked above, the Legislature, in introducing the English Act here, has made certain alterations. The right of translation of a work can be reserved only for ten years from the first publication of the work; but the author will be at liberty to publish within the prefield his own translation. Which work; out the author will be at liberty to publish within the period, his own translation, which will be similarly protected (s. 4). The term "musical work" is specially defined to mean "any combination of melody and harmony, or either of them, which has been reduced to writing." (s. 5). This definition has been borrowed from the English Copyright Act, 1902.

forty-two years to one of life and fifty years subject to certain conditions. The Act enlarges the import of the term 'copyright'. It majority of Indian melodies have not been means 'the right to produce or reproduce the work or any substantial part thereof in any material form whatsoever, to perform, or in

of ownership in musical works. Breaches of the provisions of the Act are made punishable with fine. A fine extending to Rs. 20 for every copy but not exceeding five hundred rupees is prescribed for the sale, or importation of any infringing copy of a work (s. 7). Possession of plates for infringing copyright in any work is penalised by a fine of Rs. 500 (s. 8). The punishment for second or subsequent conviction can extend to simple imprisonment for one month, or a fine which may extend to Rs. 1,000 or both (s. 8). Offences under the Act can be tried only by a Presidency Magistrate or a Magistrate of the First Class (s. 9). The High Court or the Court of the District Judge alone is empowered to hear a suit or other civil proceeding regarding infringement of copyright (s. 13).

The Decentralization Act.—The genesis of this Act lies in the recommendations of the Royal Commission on Decentralization. At first a bill was introduced into the Imperial Legislative Council on the 23rd September 1911 providing, with certain safeguards, for the delegation by notification to a lower authority of powers and duties vested by law in a higher authority. The bill was eventually abandoned, for it was criticised as giving "a blank cheque to the executive to alter legislative enactments without the usual legislative procedure." The present Act, therefore, indicates in its Schedules the precise delegations of powers which are effected in particular Acts.

The Negotiable Instruments (Amendments) Act.—This amending Act purports to validate endorsements on negotiable instruments, particularly Government Promisory Notes, in such a way as to make them payable to two or more payees jointly or in the alternative, to one or some of several payees.

The Provincial Small Cause Courts (Amendment) Act.—This Act makes two additions to the class of suits exempted from the cognizance of Provincial Courts of Small Causes, namely: (1) suits for compensation for any offence under Chap. XVII of the Indian Penal Code or for the recovery of any property taken in the commission of such offence; and (2) suits for compensation for trespass or damage committed in the illegal or improper execution of any legal process or search. The reason for the exclusion is that suits in a Court of Small Causes are triable by a summary procedure which allows no right of appeal upon the facts and requires no full record of the evidence. This position of affairs was unsatisfactory as it deprived the defendant of the possibility of clearing his character by an appeal from an adverse decree.

The Indian Telegraph (Amendment) Act.—The introduction of radio telegraphy into India has made necessary certain amendments in the Indian Telegraph Act. Following the analogy of the Indian Post Office Act (VI of 1898) the provisions of the Act are now made applicable also to all servants of the King residing in Native States whether British subjects or not (s. 2). Section 3 amends the definition of 'telegraph' by substituting the words "making transmitting or receiving "for the words "transmitting or making". For, it is now possible to construct wireless telegraphic apparatus capable merely of receiving telegrams. Section

4 adds a specific provision for regulating the establishment and working of wireless telegraphs on ships within Indian territorial waters and of telegraphs other than wireless telegraphs within any part of British India. A telegraphic line of wire has oftentimes to pass through property belonging to private owners. Such owners are now (s. 19A) required to give notice before they can exercise legal right as is likely to damage telegraph or interfere with telegraphic communication. Violation of this provision is made punishable with a fine which may extend to Rs. 1,000 (s. 25A). Similarly, if any person establishes, maintains or works unauthorized telegraphs, he can be punished with a fine which may extend to Rs. 1,000; and if the telegraph is a wireless telegraph, with imprisonment which may extend to three years, or with fine or with both. The amendment which most concerns trade is the addition of s. 29A. It enacts: "If any person without due authority, (a) makes or issues any document of a nature reasonably calculated to cause it to be believed that the document has been issued by, or under the authority of, the Director-General of Telegraphs, or (b) makes on any document any mark in imitation of, or similar to, or purporting to be, any stamp or mark of any Telegraph Office under the Director-General of Telegraphs, or a mark of a nature reasonably calculated to cause it to be believed that the document so marked has been issued by, or under the authority of, the Director-General of Telegraphs, he shall be punished with fine which may extend to fifty rupees." This is meant to put a stop to the method of advertise-ment, resorted to of late by some trading firms in this country, by distributing advertisements to the public by means of imitation inland telegraph forms, and covers with impressions of name and date stamps similar to those used on actual telegrams sent out from Government Telegraph Offices.

The Indian Motor Vehicles Act.—The introduction and development of the use of Motor vehicles have been signalized by the enactment of six different Provincial Acts on the subject, viz., Bengal Act III of 1908, Bombay Act II of 1904, Burma Act II of 1900, Madras Act II of 1907, Punj ib Act II of 1907, and United Provinces Act II of 1911. These Acts though exhibiting no important differences in principle, are not indentical in form. Still, it is a distinct advantage to have one uniform Act applying to the whole of India. There is nothing new in the Act. Its general provisions enact that no person under eighteen years of age shall drive a motor vehicle in any public place (s. 3); and that the driver should stop the vehicle for regulating traffic and in case of accidents (s. 4). A person driving a motor vehicle recklessly or negligently in a public place can be punished with fine which may extend to Rs. 500 (s. 5). The penalty for contravening any of the provisions of the Act or any rule made thereunder, is a fine of Rs. 100 on a first conviction—which extends to Rs. 200 on a subsequent conviction (s. 16). The offences under the Act are triable by Magistates not lower in grade than second class

(s. 17).

The Local Authorities Loans Act.—This is a consolidating measure, which condenses eight foregoing Acts on the subject. The present

Act makes it clear that it is competent to the Port Officers to borrow under the Act. The powers which the Government of India hitherto had of sanctioning and regulating the issue of loans by local authorities have been made over to the local Governments.

The Repealing and Amending Acts.—Two Acts (X and XVII) have been promulgated this year making formal amendments in certain enactments and repealing certain obsolete enactments. This periodical filtration is necessary to remove what has become unnecessary in Verticality Acts. Legislative Acts.

The Indian Companies (Amendment) Act.—Every Company with limited liability should have at least two Directors (s. 83A); and until the first Directors have been apand until the unst Directors have been ap-pointed, the subscribers of the memorandum shall be deemed to be the Directors of the Company (8. 83B.) It is further provided that every interested Director shall disclose that every interested Director shall disclose his interest in contracts to other Directors (s. 91A); and he will be incompetent to vote at meetings held to consider such contracts (s. 91B). The shareholders of a Company have to be informed about the contract for the appointment of the Manager of the Company in which contract any Director has interest (s. 91C). In the case of contracts by agents of a Company in which the Company is undisclosed principal, the terms of the contract must be communicated to the Company (s. 91L). (s. 91D.)

The Sea Customs (Amendment) Act .-- The main change made by this Act is that where any consignment is shipped without or in anticipa-tion of a shipping bill, the rate of duty and tariff valuation shall be the rate and valuation at the time when shipment of the goods commences. It will remove the delay and inconvenience to which shippers were hitherto subject. Section

cription of goods either generally or from or to any country, beyond the limits of British India.

The Indian Life Assurance Companies (Amendment) Act.—The Controller of Currency is authorized to perform all work in connection with Government Securities, previously entrusted to the Comptroller-General, under the Act.

The Indian Post Offic and Telegraph (Amendment) Act.—The amalgamation of the Offices of Director-General of Telegraphs and of Director-General of Post Office in India, has given rise to certain formal amendments in the Indian Post Office Act of 1898.

The Indian Army (Amendment) Act.— Section 114 of the Indian Army Act of 1911 was found defective in that while providing for the drawing by the Commanding Officer of the pay and allowances due to a deserter, it made no provision for the disposal of the sum so drawn. The balance of the deserter's selfects will, it is now enacted, be forfetted to His Majesty, on the expiration of three years from the date of descrition, unless the man has, in the meantime, surrendered or been apprehended.

The Indian Aircrafts (Amendment) Act.— The term "airships" has given place to the more The term "airships" has given place to the more comprehensive term 'aircraft' in the Act. When the Act of 1911 was passed, the possibility of the entry of aircraft into British India by flight over-land or over-sea was not contemplated. It is considered necessary, on m litary grounds, to prohibit the passage by flight of any aircraft into India, except upon conditions which may cover directions to enter or land at a particular point and to observe and display specified signals or marks (s. 7). In case of disobedience to comply with specified signals in a specified manner, "any person appointed in this behalf by the Governor-General in Council may fire which suppers were interero subject. Section a manner, any person appointed in this year.

I so that has been amended to give the government of India power to prohibit the importation or exportation of any specified designed. I manner, any person appointed in Council may be the governor-General in Council may be the governor-Gen at or into such aircraft and use any and every

Wireless Telegraphy.

The annual report of the Indian Telegraph graphy in his official capacity at the expense Department for 1912-13 states that new wireless telegraph stations were opened during the year at Karachi and Butcher Island, Bombay, with s working range of 600 miles, for the exchange of ships at sea, and the temporary station at Bombay was closed. In addition to the crec-tion by the department of the four large Marconi stations at Karachi, Nagpur, Lahore and Bombay, an important event of interest in India has been the large increase which has India has been the large increase which has taken place in the number of ships fitted for wireless telegraphy. Most of the passenger steamers plying regularly in Indian waters are now, fitted with wireless apparatus. The increased demands made by ships on the coast stations have been met by opening a new station at Karachi, and by arranging that Calcutta, Diamond Island, Mergui and Victoria Point shall operate by night as well as by day.

Licences to Officers.—The Government India have decided that the granting of India have decided that the granting of licences to military officers in respect of wireless telegraph apparatus used for experimental purposes shall be regulated by the following general principles: (1) When an officer conducts experiments in wireless tele-

of Government no licence is required, but only executive permission, which may be given so far as the Telegraph Department is concerned by the Director-General, Posts and Telegraphs.

- (2) When an officer carries on experiments as a private individual at his own expense he must obtain a licence. If the approval of the rilltary authorities is required to what he proposes to do he should obtain such approval before the Director-General, Posts and Tele-graphs, is approached. The licence will then be submitted by the Director-General, Posts and Telegraphs, for the sanction of the Government of India.
- (3) With reference to the above, attention is drawn to the necessity for applying for licences to own and use wireless telegraphy apparatus or installations, experimental or otherwise. Applications for such licences will be submitted through the Chief of the General Staff and will contain particulars regarding the apparatus showing (a) system it is proposed to employ, (b) maximum range of signalling with applicants own receiving apparatus,(c) power (current and voltage), (d) source of

Imperial Legislative Council.

The first meeting of the Imperial Legislative for educational institutions. Mr. Surendranath Council for the session 1914-16 was held at the Banerjee, whilst expressing the gratitude of Council Chamber in the Imperial Secretariat at his countrymen for the impetus which the Delhi on Tuesday, 6th January, 1914. There cause of education had received during Lord Delhi on Tuesday, 6th January, 1914. There was the usual long list of interrogatories, amongst the most important of the questions asked being an inquiry by the Hon'ible Sir Gangadhar Chitnavis whether the Government propose, in view of the Bank failures, to undertake legislation dealing with the banks as whole. The reply of the Member for Commerce and Industry was that the Local Governments and Administrations had been consulted on this point and, on the receipt of their replies, the question whether legislation should be undertaken would be decided. Sir Gangadhar undertaken would be decided. Sir Gangadhar Chifmavis raised the perennial question whether the Government of India proposed to move the Imperial Government for the payment to India from the Imperial Exchequer of Com-pensation for the loss of Indian opium revenue; pensation for the loss of indian opinin feventee, the reply of the Finance Member stated that no such application was under consideration. Another point on which exceptional interest has been excited was that of indentured emigration to certain British Colonies as well as Foreign Settlements in the East. The Member of the Council that the for Commerce informed the Council that the whole question of emigration under indenture would come up for the consideration of the Government of India when the report of Messrs. McNell and Chiman Lall, who had been specially deputed to investigate this question, was received.

The Indian Telegraph Amendment Bill of 1913 was introduced and referred to a Select Committee. The Commerce Member, in introducing this proposal, mentioned that the rapid and important development of radio telegraphy had necessitated some amendment of the law in order to provide for its adequate control.

Instruments Amend-The Negotiable Instruments Amend-ment Bill was introduced by the Finance Member, Sir William Meyer, and referred to a Select Committee. The object of the Bill was merely to place beyond doubt the legality of what are known as "endorsements in the alternative" are known as "endorsements in the alternative that is to say endorsements on a negotiable instrument made in such a way as to render the latter payable to two or more payees generally, or in the alternative to one or some of several payees. The Indian Copyright Bill was also referred to a Select Committee together with the Provincial Small Causes Courts Amendment Bill.

There was a debate of some importance on Educational questions on the motion of the Hon'ble Mr. Surendranath Baneriee, of Calcutta, who asked for the publication of correspondence relating to the affiliation of the Ananda Mohan College up to the B. A. Standard, Ananda Monan College up to the B. A. Standard, and also for official papers leading to the orders of the Government regarding the desirability of introducing school final examinations in provinces where they have not been introduced. Although a local question in itself, the request for papers relating to the Ananda Mohan College and the second of the second of the second limits of the rege touched upon a question of general importance, namely whether Government or the united by the local Universities are to be the controlling authority to Matriculation; but the Madras certificate

Hardinge's administration, said that the Ananda Hardinge's administration, said that the Ananua Mohan College was a second grade college at the headquarter station of the Mymensing District which was one of the biggest, one of the richest, and one of the most populous districts in East Bengal, its population comprising 4‡ millions with an area of 6,332 square miles. The University recommended the affiliation of the college up to the B. A. Standard ation of the college up to the B. A. Standard in Arts, but the Government of India declined to grant the affiliation. The question of the School Final is one of equally perennial interest in Indian educational discussions. Until a in Indian educational discussions. Until a comparatively recent period the Matriculation Examination, designed as a College entrance examination, was practically the only test of school work and a considerable body of critics has protested against the whole secondary educational system being forced into one groove in order to provide a course of instruction not complete in itself but preparatory to the college course. The School final ex-mination, conduced either under the auspices of Government or of a special committee, received a great impetus when the University of Madras abolished the Matriculation and substituted the School Final in its stead. Mr. Surendranath Banerjee's contention was that, whatever reason may be raised in favour of the extension of this system raised in favour of the extension of this system to Bengal from its success in Madras, it was negatived by the experience of Bengal itself. Finally Mr. Surendranath Banerice protested against the order placing the recognition of schools for the purpose of presenting candidates for the Matriculation in the hands of the Local Governments. He argued that it would be exceedingly risky to introduce an experiment of this kind in a province like Bengal where the vast majority of the high schools are controlled by the necoles. trolled by the people.

In the debate which followed the elected members expressed a good deal of sympathy with Mr. Banerjee's ideas on the subject of keeping the recognition of schools in the hands of the Universities rather than transferring it to the Local Governments. The reply of the Education Member, Sir Harcourt Butler, was in effect that the Government of India would in effect that the Government of India wound gladly reconsider their decision not to recognise the affiliation of the Ananda Mohan College when improvements which had been promised were effected. He traced the long history which lay behind the School Final Examination recisions with the within the left entinguentium pointing out that within the last quinquennium new systems had been framed in Madras and the United Provinces which laid stress on the record of the pupils' progress maintained in the high classes of schools. The Madras system, while it included examination, did not make the grant of a certificate conditional on the attainment of any prescribed standard in examination. The grant of a certificate under the United Provinces system depended on the attainment of a certain proficiency based on written and oral examinations. The certificates under both the Madras

have brought no pressure to bear in the matter as regards any details of either 'the Madras or the United Provinces systems. Turning to the recognition of schools the Education Member maintained that every modern system of educational organisation was based on a large and growing measure of State control. It was generally agreed, he said, by thoughtful people now that the control of education was a duty which the the control of equeation was a duty which the State owed to the parents and the rising generation. Government must satisfy themselves of the character of secondary schools before reckoning them eligible to receive grants-in-aid or to send pupils to compete for Government scholarships. The motion was defeated.

When the Council resumed on January the 9th the Honourable Mr. Banerjee introduced the resolution on the subject of the Press Act of 1910. This Act was passed when the sedi-tions agitation which had its aftermath in anarchical crime was at its height; it supple-mented the provision of the criminal law which provided for prosecution in the case of sedition by provisions which empowered Government in certain circumstances to take and to escheat security for the good conduct of newspapers.

Mr. Banerjee maintained that when the Act of 1910 was passed there was a general desire expressed by non-official Indian members that it should be a temporary measure and should not find a place amongst the permanent statutes of the land. His argument was that this Act gave very large powers to the police, and that the judgment of the Calcutta High Court in what was known as the "Comrade" case showed that the protection supposed to be accorded to the right of appeal to the High Court against the order of the executive was to a large extent illusory. In the course of to a large extent illusory. In the course of this judgment Sir Laurence Jenkins stated that the provisions of Section 4 of the Act were very comprehensive and its langange was as wide as human ingenuity could make it. He further argued that there had been a sensible improvement in the situation and that he was therefore justified in demanding the repeal or at any rate a substantial modification of the Act, be further urged where the Council of the Act; he further urged upon the Council of the Act; ne further urged upon one council, so to amend the Act as to remove a just cause for complaint to carry out its declared intention and to redeem the pledged word of the Government. There was manifest during the discussion a considerable difference of opinion; discussion a considerable difference of opinion; whilst the large majority of the non-official elected members supported Mr. Banerjee, Malik Umar Hayat Khan declared himself the greatest enemy of the seditious press and the Hon'ble Sir Gangadhar Chitnavis declined to agree with Mr. Banerjee that the time hadome when the Act should be repealed. The official view as expressed by the Home Member, Sir Pavinala Craddock was that when the Act Sir Reginald Craddock, was that when the Act was thoroughly examined by a Sclect Committee in 1910 there was not a single reference made, neither in any of the minutes of dissent to the neither in any of the minutes of dissent to the provision of Section 12 nor did a single member of reaching provision of Section 12 nor did a single member of Robert Carlyle said that, if the proposal move in the Council to amend that section. The Home Member also maintained that the action to be taken under the Press Act was always intended to be the action of the executive Government, but power was rightly reserving the section of the Punjab would, on an average, compute twe Government, but power was rightly reserving the profits due to a well in the United Province and in the Punjab would, on an average, compute the computer of the province and in the Punjab would, on an average, computer of the province and the province and the province and the province and the province and the province are provinced to the province and the

was, while the United Provinces was not, the ved to no authority lower than the local Governsole qualification for Government service of ment itself. As a matter of fact there were certain grades. The Government of India at that time 1647 newspapers and periodicals ment itself. As a matter of fact there were at that time 1647 newspapers and periodicals at that time 104? newspapers and periodical in India. Since the Act was brought into force security was deposited by presses under section 3 in 147 cases only and from publishers under section 8 in 100 cases. Under section under section 8 in 100 cases. Under section 4, that is to say, when security which was given by the printer or the keeper of a press was fortiete, there had been only five cases altogether. Under Section 6 there had been no cases, that is, where the offending press having had its security forteited and having given further security offended for a second time. Under Section 9, that is the one under which security is forfeited, there had been two cases. There had been altogether five applications to the High Courts in respect of orders of forfeiture or any other orders from which of forfeiture or any other orders from which the law allowed an appeal to the High Court none of which had been successful. The resolution was negatived by 40 votes to 17 votes.

> When the Council resumed on January 13 Sir Reginald Craddock moved that the Indian Criminal Law and Procedure Amendment Bill be referred to a Select Committee. The Hon'ble Mr. Chakravarti Vijiaragha-Achariar criticised the details of the Bill at length and criticised the details of the Bill at length and proposed inter alia that the age of consent should beraised to 18. He said that he regarded the Bill as a brave attempt, the first of the kind, on the part of Government in the matter of social legislation in response to the rising national consciousness. Sir Reginald Craddock in replying explained that certain proposals had been dropped because Government had been warned on all sides that it was undesirable been warned on all sides that it was undestraine to interfere with the age of consent or to attempt a differentiation in respect of the age of consent between husbands and strangers. The motion was put and agreed to, A resolution was moved by the Honble Raja Kushal Pal Singh recommending that in all future settlements of land revenue any increase of assets due to the con-struction otherwise than at the expense of the State, of wells, tanks or other artificial sources of irrigation be permanently exempted from assessment to revenue. He said that in Bomassessment to revenue. Le said that in Bolin-bay and Madras such permanent exemptions from taxation of improvements had justified themselves by the effective encourage-ment given to the sinking of wells. After quoting a number of opinions in support of his views he expressed the belief that if the resolution were to be accepted masonry wells and other irrigation works would be multiplied in such large numbers that famines would become things of the past. The resolution was supported by the Hon'ble Sir Gangadhar Chitnavis and other speakers. Sir Edward was supported by the Hon'ble Sir Gangadhar Chitnavis and other speakers. Sir Edward Maclagan, after pointing out that the reasons why the Government must oppose this resolution were fully explained in a Government Resolution of 1906, went on to say that he had never heard a land holder say that e was not going to make a well merely becau e he was afraid of the land revenue being enhanced after a number of years. At a later stage of the debate Sir Rohert Carlyle said that if the proceed

were already about two provinces, the annual loss in this part of India alone would be about a crore and a half of rupees. Even if the exemptions were confined to works constructed after the period, the loss involved would be very great if the construction of wells went on as rapidly in future as of late years. Nor was the Indian policy opposed to the usual practice in most civilised countries; the Indian Government on the other hand had been the first to treat liberally those who had made improvements at their own expense. The resolution was at their own expense. negatived by 33 votes to 17 votes.

On January 14, the Hon'ble Mr. Rama Rayaningar moved that the reports of the Army in India Committee presided over by Field Marshal Lord Nicholson be laid on the table. He said that non-official public opinion about the recommendations of the Committee, if they were productive of good, must be expressed and recorded before final orders were passed by the Secretary of State.

The Resolution was withdrawn after Major
General Birdwood had explained that it had
already been announced in the house of Commons that the report should not be published.

The Hon'ble Mr. Rama Rayaningar then moved "that this Council recommends to moved "that this Council recommends to
the Governor General in Council that Local
Governments be consulted as to the desirability of advisory boards composed of nonofficial gentlemen nominated by the Revenue
Heads of the Districts being formed to assist
officials in the work of assessment under the
Income Tax Act." He said there was no
reason why the Administration of the
Income Tax Act should not be improved
and placed upon a popular basis. Practically
all the provincial reports showed that there was all the provincial reports showed that there was general dissatisfaction at the assessment. In the greater part of the United Provinces the experiment of consulting non-official assessthe experiment of consulting non-official assessions had been tried with conspicuous success. The Hon'ble Mr. Donald, who followed, gave some account of the system which prevails in Bengal and in Bihar and Orissa. He said he though that the constitution of a formal advisory board would intensify rather than diminish the unpopularity of the tax. The Hon'ble Sir Ibrahim Rahimtoola said that Government might very well be left to granise Government might very well be left to organise efficient means of collecting taxes. As for the conducive proposed advisory boards being conducive to the public interest, he thought that far from being in any way useful or acceptable to the public, the appointment by nomination of any non-official element for the purpose of helping officers in the matter of determining assessments and investigating appeals would assessments and horsessessing approaches be very strongly resisted. The present procedure was not perfect but might be continued, because the idea of non-officials helping to determine the amount of income-tax paid by determine the amount of income-tax paid business men was open to serious objection. Sir William Meyer, after pointing out the enormous difficulties and complexities of in-come-tax assessment and the objections to the scheme put forward, said that he would nevertheless be prepared to accept the motion as worded. Income-tax was levied under an Imperial conactment, its assessment and collection were controlled in the second second controlled in the second contro

750,000 wells in these ment of India to consult local governments used loss in this part of as to the desirability of establishing non-official tout a crore and a half boards. The Government of India were not bound, and they did not intend, to propose any definite action. The resolution was not of a mandatory character, but was mere an attempt to feel the pulse of the local governments and through them of local opinion on the matter proposed. The resolution was therefore accepted on behalf of the Government of Indianates are not activated. of India, and was put and adopted.

> On January 16, the Hon'ble Rai Sri Ram Bahadur moved that "the provisions of Chapter VI of the Civil Service Regulations, relating to acting allowances be also extended to the members of the Provincial Civil Service, Judicial and Executive, holding substantive appointments and officiating in another appointment or in a higher grade as laid down in article 105 (i) of the said Civil Service Regulations. The object of the Resolution was that the rule by which an officer with a substantive appointment officiating in another appointment of a higher grade obtains acting allowances besides his own pay, be extended to the members of he Provincial Civil Services both in the Executive and Judicial lines. He said that it was this class of public servants that did the great bulk of the work and to whose collaboration with the head of the district was, to a large extent, due the smooth running of the administrative machinery. After various speeches in support of the motion Sir Reginald Craddock in support of the motion sir negimal visualistic said he fully agreed with the excellent work done by provincial officers and he proceeded to explain how the privilege enjoyed by the Tadian Givil Service had come into being. He Indian Civil Service had come into being. He instanced the Punjab and Central Provinces grading, but said that while the Royal Commission was considering the question with many others he could not recommend the Government to adopt the motion. It practically ment to adopt the motion. It practically amounted to increasing the pay of the Provincial services and he was not at all sure the proposed method was the best way of doing so. The motion was put to the Council and lost by 40 votes to 14.

The question of an Improved Mail Service was raised at the same meeting by the Hon'ble Sir Fazulbhoy Currimbhoy, who approached the subject by moving a resolution that a committee of Council be appointed to inquire into and report on the question of improving into and report on the question or improviment the mail service between Great Britain and India. He said that the broad fact was that Indian commercial opinion was practically unanimous in demanding a quicker mail service. Whatever might be the merits of the demand. Whatever might be the merits of the demandt acquired weight from certain undenlable
circumstances. He quoted figures showing
the recent increase in the seaborne trade of
India and the consequent increase in the number
of letters and post-cards and said that it was
impossible to suppose that this increase did
not necessitate a change in the mail service,
and this change must come sooner or inter.
There was next the question of the expenditure
which this change would necessitate. All

of consideration by a committee of the Council | Ceylon and was doing increasingly great damage on which all interest were represented.

The Hon, Malik Umar Hvat Khan and the Hons. Chitnavis, Abott and Huda supported the resolution while the Hon. Sita Nath Roy supported it with the proviso that England should bear the cost.

The Hon'ble Mr. Clark in reply said that the extended P. & O. Contract, if notice had been given, was due to expire on January 31, 1916. The whole contract was made by the British Postmaster General but the Government of India proposed when they had received full information, to make to the Secretary of State such recommendations and suggestions for the improvement of the service as might seem to them desirable in relation to their cost for transmission to the Postmaster Gene-ral. With this object they had been eliciting opinions on the subject from local governments and administrations. The Government had and administrations. The development assertained what India wanted and would shortly learn what forms of tender the Postmaster General proposed to issue with a view to ascertaining what would be the cost of accelerating the existing service, or a bi-weekly service, or both. The Government of India would then be able to consider whether and how far the advantages to be gained would justify them in incurring additional expenditure. He therefore submitted that there was little room for the deliberations of the Committee of the Council on this matter. The Hon. Sir Ibrahim Rahimtoola said the great point at present was to secure co-operation between nonofficials and offici is and he thought deliberation by consultation was better than deliberation by correspondence. He prize the arrived the Government would invite the members of the Council to meet and consider the question.

The Hon. Mr. Clark, in reply, was unable to give any assurance in this matter. Finally Sir Fazulbhoy Currimbhoy withdrew his resolution, saying he would raise the matter

again later on.

When the Council met again, on February 3, a number of questions were asked including one relating to the mission of Mr. Lionel Abrahams to India, to which the Hon'ble Mr. Clark replied that Mr. Abrahams had been deputed to India to discuss informally with the Government of India some pending questions relating to railways, in order that in this way the ultimate settlement of those questions by means of formal correspondence between the Government of India and the Secretary of State might be facilitated.

The Hon'ble Mr. Clark introduced the Indian Companies Amendment Bill for reference to a Select Committee. A brief debate followed on the Destructive Insects and Pests Bill in the course of which the Hon ble Mr. Kenrick said that in introducing legislation Kenick said that in introducing legislation to prevent the introduction into India of destructive insects and pests they were merely falling into the line of practice of nearly every civilised country which placed any value on agriculture. Had legislation been enforced it might have been possible to keep out of India progress but there had been some amount of the green scale and the green bug of coffee, ill-feding between the woommunities at which had practically ruined the industry in

in the coffee plantations of Southern India.

The Hon ble Maharaja Manindra Chandra Nandi moved a resolution for the publication of the Decentralisation Commission's papers. The report of that Commission had been signed in February 1909: since then its recommendations had been the subject of correspondence between Provincial Governments and the Government of India, and between the Government of India, and India ment of India and the Secretary of State. It was to be inferred from a recent speech by the was to be interred from a recent speech by the Viceroy that a final decision on the recommendations of the Commission in respect of Municipalities was shortly to be expected. After speeches in support of the resolution Sir Harcourt Butler announced that it was not usual to publish such correspondence; but it was the intention of the Government, when any correspondence on the sections of the Commission's report which concerned self-Government was complete, to publish a resolution dealing with the whole question of local self-government. This announcement caused disappointment to the Hon'ble Mr. Surendranath Banerjee. He thought the publication dranath Banerjee. He thought the publication of the papers would lead to a public discussion which would be of value to Government. He considered the attitude of the Government was not what it ought to be in regard to the repeated appeals for the publication of the papers. To that complaint Sir Harcourt Butler replied that he did not think any Government in the world would excent the pre-Suttler replied that he did not think any overnment in the world would accept the proposition that the Executive Government was bound at any time to lay papers before those who are interested in them. The public had been most fully consulted in this matter of the Decentralisation Commission's Report and appropriate the Council had an appropriately members of the Council had an opportunity of offering their views on that report.

On February 4, after the Hon'ble Mr. Wheeler had presented the report of the Select Committee on the Bill to consolidate and amend the law relating to motor vehicles in British India, the Hon'ble Sir Fazulbhoy Currimbhoy moved a resolution for the formation of Conciliation Boards. The terms of the resolution were that "a Committee consisting of Hindu and Mahomedan members of this Council be appointed for the preparation of a draft scheme for the formation of Conciliation Boards at every important centre on the model of Municipal Boards, composed of Honorary Members duly elected by the Hindu and Mahomedan residents of the locality with statutory powers :-

(1) to arbitrate in all cases of differences between the two communities relating to the time, place and manner of the observance of their respective religious and social ceremonies;

(2) to take necessary action for the prevention of violence and rlots connected with such observance; and

come still more difficult unless the evils were promptly checked. He quoted examples of conciliation boards being tried with good results in the West in settlement of industrial disputes. He did not see why the experiment should not be tried in India for the settlement of communal differences relating to the observ-ance of ceremonics. The local conditions ance of ceremonies. The local conditions were more favourable in India than in other countries. From time immemorial Indian people had been accustomed to settle their differences amongst themselves. The Local Conciliation Boards which he proposed would inspire confidence and become popular and, like the Panchayat, would have to be permanent and armed with statutory powers. The Maharaja of Cossimbazaar, Sir Gangadhar Chitnavis, and various other speakers associated themselves with the resolution. The Hon'ble Major Blakeway said that the resolution, if it were to receive the support of the Council, would accentuate the existence of a line of cleavage and not only reflect unfavourably on the educational uplifting and enlightenment of the two communities to which it related, but also decry to some extent the efforts for an amicable understanding. The Hon'ble Mr. Surendranath Banerjee said he thought that it was a significant sign of the times that a prominent leader of the Mahomedan comnunity should have introduced such a resolution. It was an invaluable index of the growth of friendliness and solidarity of feeling between the Hindus and Mahomedans. The Hon'ble Sir Reginald Craddock thought that in framing legislation designed to put an end to disputes between the two communities a preamble might easily be agreed upon, but when it came to a substantive measure the path was found to be bristling with obstacles and dangers. He examined Sir Fazulbhoy's proposals in detail and said that the machinery proposals in detail and said that the machinery suggested would give to what are clearly Concillation Boards powers which would in one case be executive and in another judicial. The resolution was withdrawn, after Sir Reginald Craddock had said Government would consider the desirability of having Advisory Boards in places where religious disputes had taken

When the session was resumed on February When the session was resumed on February 24, the report of the Select Committee on the Bill to modify the Indian Copyright Act of 1911 was presented and the Bill as amended was agreed to. The report of the Select Committee on the Bill to Decentralise and to facilitate the administration of certain and to facilitate the administration of certain enactments was presented. The Decentralisation Commission recommended that the work of decentralisation should be effected by a delegation bill; this was opposed in Council on the ground that a measure of that kind would give to Local Governments and to the Government of India powers practically to legislate by means of notification, and in deference to that opinion the Bill was withdrawn. Its place was taken by this specific measure, and the Bill as amended was passed. The Hon'ble Revanitions the would a resolution asking. cular strike, and the great and controversial place was taken by this specific measure, and the Bill as amended was passed. The Hon'ble Mr. Rayaningar then moved a resolution asking for the appointment of a joint commission of officials and non-officials to investigate the whole subject of Jail administration and to suggest improvements in the light of western experience. He pointed out that the dietary,

clothing, housing and punishment, and treat-ment of the prisoner generally, and his employment, education and reclamation, were subjects of paramount interest to the reformer regarding which there were irreconcileable differences of opinion among jail authorities. The Home Member agreed there was a good prima facie case for inquiry, and the Hon'ble Mr. Surendranath Banerjee whilst recognising that the treatment of prisoners in Indian jails represented a conspicuous display of humanity and kindness, asked that there might be differentiation between the diet of respectable prisoners and those who came from the lower classes; and also that the suitability of the Andamans as a penal settlement should be re-considered. The Home Member accepted the resolution on behalf of the Government. He contended that in Iudia Government had been steadily working towards more humanitarian treatment. The jail was often the healthiest place in the whole town, severer punishments had been reduced to a minimum, reformatory schools for young criminals had been established, and the imprisonment of youthful offenders had been discouraged; yet the atmosphere of a central jall was not such as to inspire men with a desire for better things. He had studied the system in force at the penal station in the Andamans and he was struck by the fact that the system was still too rigid and made no sufficient attempt to differentiate between crimes committed in the heat of passion, and cold, calculated crimes implying a vicious and degenerate nature. Later in the year the Secretary of State approved of the appointment of a Commission, and it was duly constituted.

The Hon'ble Mr. Vijiaraghavachariar moved a resolution recommending the appointment of a Commission for the purpose of investigating the causes of a strike on the Madras and Southern Mahratta Railway and to include in their recommendations the advantages and disadvantages of Government management of Indian State railways. This resolution was inspired by a prolonged strike on the Madras and Southern Mahratta Railway, the Madras and Southern Mahratta Railway, which temporarily spread to the Great Indian Feninsula Railway and the Bombay, Baroda Railway: also by a desire, which is strong amongst many Indians, that the State should gradually take over the actual working of all State lines, instead of leasing them to Companies. The Chairman of the Railway Board, Sir T. Wynne, contended that there was no need of a Commission merely to ascertain the causes of the strike. The Government of India and the Railway Board were in the closest touch with the railway autorities during the strike, and the commercial community of Madras fully supported the Railway in resisting the strike. The Member for Commerce and Industry, the Hon't ble Mr. Clark, pointed to the disproportion between a partipointed to the disproportion between the two parts of the Resolution—the cause of a parti-cular strike, and the great and controversial

poncy which should be pursued when about contract lapsed. The resolution was divided into two parts—that relating to a Commission on the strike was rejected and that relating into an inquiry into the respective merits of State versus Company management was also rejected by 34 to 19.

An old controversy was revived when the Hon'ble Mr. Surendranath Banerjee moved Hon ble Mr. Surendranath Banerjee moved that a Committee of officials and non-officials be appointed to consider the advisability of revising the present system of Provincial Settlements between the Government of India and Local Governments. He said that the Government of India were considered to the comment of India were considered to the construction of India were considered to the construction of India were considered to the construction of India were considered to the construction of India were considered to the construction of India were considered to the construction of India were considered to the construction of India were considered to the construction of India were considered to the construction of India were considered to the con said that the Government of India were com-mitted, in the despatch recommending the transference of the capital to Delhi, to a larger measure of provincial autonomy, and if there was to be provincial autonomy, then very large powers of control over provincial finance and fiscal independence must be given to the provincial governments. The debate was carried into the sitting of February 25, but before it was reached, the report of the Select Committee on the Bill further to amend the Indian Telegraph Act of 1885 was presented and the Bill was passed. When the debate on Provincial Settlements was resumed, the Government of India, through the Finance Member, Sir William Meyer, returned an emphatic non-possumus. He maintained that the fundamental has of the content of the se the fundamental basis of the system cannot, in present circumstances, be further liberalised; and in so far as the object of the Resolution and in so far as the object of the Resolution was to obtain a sudden and large addition to Provincial resources at the expense of the Imperial Government, that is to say at the expense of the Indian taxpayer, the Government of India could not hold out any hope of it being attained. The policy of the Government of India in respect of Provincial Settlements had been one of constantly increasing liberality: the Provincial Governments were at present in a position which their predecessors of a generation ago would have looked upon as too a generation ago would have looked upon as too groot to be hoped for; they were permanently assured of far larger resources than their predecessors proposed; and in the case of famine, that great disturber of provincial financial equilibrium, the Government of India had given them large assistance. The had given them large assistance. The last stage in this process of adjustment with the Provincial Governments was only reached three years ago, after very careful inquiry by a Royal Commission, and the question could not now be re-opened. The Resolution was

The Hon'ble Sir Gangadhar Chitnavis moved a resolution asking for the appointment of a Committee to investigate the causes of the bank failures which so severely shook the Indian community during the closing months of 1913. The burden of his argument was of 1918. The ourner of the theoretical theoretical they were so slow that they that the ordinary liquidation proceedings were inadequate; they were so slow that they involved detrimental delay. Also that Indian capital was proverbially shy. It had shown a tendency to come out as indicated by the increase in the deposits with all the leading banks, and the rise of the swadesh banks, and this current of confidence should be restored by full inquiry into the recent failures. Strict control of hanks was required and the

policy which should be pursued when that a Committee would decide the form of control contract lapsed. The resolution was divided which should be established. The resolution into two parts—that relating to a Commission produced a considerable diversity of opinion. Many unofficial members supported it, but it was opposed by those with the closest knowledge was opposed by those with the closest knowledge of the conditions in which the great swadeshi banks failed. The Hon'ble Sir Fazulbhoy Currimbhoy said that a committee would be costly machinery for the ascertaining of facts already known. The liquidation proceedings had disclosed the whole inner situation. It was a matter of common knowledge that the transactions of some of these banks were marked transactions of some of the control same view, saying that the reason for the failure of these banks was well-known—speculation. The remedy was State assistance and the education of depositors in financial matters. The Commercial Member, the Hon'ble Mr. Clark, said there was a fatal objection to the resolusand others was a later objection to the resonation; such an inquiry as it proposed must cut right across the judicial proceedings now in progress. When the judicial proceedings were complete and the opinions of the Local Governments had been ascertained, Government would see whether they could proceed to take action, or whether they should institute some form of inquiry. The resolution was withdrawn.

> Another well-worn subject was discussed when the Hon'ble Rai Sri Ram Bahadur moved a resolution recommending that the Government of the United Provinces and Oudh, and such other provinces as the Government of such other provinces as the Government of India may consider proper, be invited to express their opinion on the advisability of extending the principle of levying a portion of the local rates and cesses on persons residing in rural areas who are not agriculturists, but carry on other professions or trades. The main object of the resolution, he explained, was to draw the attention of the Government of India to the fact that the classes connected with the land alone have to pay taxes which are spent on objects whose benefits are enjoyed are spent on objects whose benefits are enjoyed equally by the rest, of the village population, and that there are persons amongst the latter classes who, though capable of contributing towards these expenses, have remained exempt. Government, through the Finance Member, admitted that it was not very fair that the whole burden of local administration should restrictly the classes. practically rest on the agricultural classes. At the same time, if the agricultural class do pay the bulk of the local taxes, they also form the bulk of the population. Further, Governthe burk of the population. Further, Govern-ment have gradually removed certain burdens which rested on the agricultural classes, notably the famine cess and the patwari cess. It was contended that acceptance of the resolution would involve a complicated re-adjustment of taxation: it was withdrawn.

The question of permanent versus fixed term land revenue settlements was fought out in another form when the Hop'ble Raia Kushal Pal Singh introduced a resolution recommending the Government to consider whether they consider it desirable and practicable to extend and this current of confidence should be restored by full inquiry into the recent failures. Strict control of banks was required, and such of the country as have become ripe for permanent settlement. The mover frankly confessed that a permanent settlement of the land revenue would be in the highest degree beneficial to the people, and would add to their wealth, prosperity and staying power, but he refrained from asking so much. But if the duration of settlements was extended, the expense and harassment incidental to the present mode of assessment operations, and recurring every 20 or 30 years, would be materially lightened and the accumulation and investment of Capital directly encouraged. Short term settlements cut away all incentives to improvements, whilst long term settlements promoted enterprise in the landed class. The resolution met with considerable support from the unofficial members of the Council, but it was resisted by the Government. The Revenue Member, the Hon'ble Sir Robert Carlyle, said that Government were not prepared to make any movement in the direction of converting temporary into permanent settlements, and he looked on the resolution as a movement in that direction. He failed to see that there was any substantial gain to be obtained by increasing the period of settlement. On the other hand there were several disadvantages. The Government could not on financial grounds accept the resolution. During the last 50 years the income from the land revenue had increased at the rate of almost Rs. 20 lakhs a year. They could not forego this increased income for 20 years. However much the revenues from other sources might increase, there was no reason to believe that Government would be able to forego all additional contributions from the growing profits of the owners and cultivators of the land. When the Council divided on the resolution, there voted for it 18 and against 35.

The provincial settlements came before the Council in another form when the Hon'ble Rai Sri Ram Bahadur moved that the divided heads of revenue be amended in the United Provinces by a sum equivalent to one-eighth of their land revenue, either by raising the provincial share of the land revenue from three-eighth to one-half, or by making up the share in other ways. The main argument advanced in support of the resolution was that the provincial settlement in the United Provinces was inadequate, and that all other provinces received a larger share of their land revenue than the United Provinces. The broad ground of the Finance Department was a refusal on this, as on other grounds, to re-open the complicated question of provincial settlement which had been decided only three years earlier. But whilst taking his stand on this ground, Sir William Meyer denied that the settlement involved any injustice to the United Provinces. In essentials they were treated as well as any other part of India. The resolution was rejected.

The Budget was introduced on March 2. But before it was laid on the table, His Excellency the Viceroy expressed deep regret at the news of the death of Lord Minto, and sympathy with Lady Minto—an expression with which the Hon'ble Sir Gangadhar Chitnavis, on behalf of the Council, associated himself. His Excellency also expressed warm appreciation of the services of the retring Commander-inchef, Sir O'Moore Creagh, whose service of 47

years was drawing to a close. Sir William Meyer then introduced the Budget. This is dealt with fully in the section Indian finance (a. v.), and it is sufficient here to say that the year closed with a surplus of £1,328,000. The estimate for the new year provided for a revenue of £85,033 millions, an expenditure of £86,962 millions, leaving an Imperial surplus of £1,280,000. The apparent discrepancy between the deficit shown in the comparisons between revenue and expenditure, and a true Imperial surplus, arises from the fact that the provincial governments have large unspent balances, on which they expected to draw in the year. The actual discussion on the Budget came at a later date. The next business before the Council was the discussion of a resolution by the Hon'ble Sir Fazalbhoy Currimbhoy recommending that a Committee should brappointed to inquire into the whole question of the Mahomedan piligrimage to Mecca. The mover recognised, however, that the action proposed by the Government of India and the Government of Bombay should be allowed time in which to mature and so withdrew his resolution. But the pilgrimage question came up in another form, when the Hon'ble Sir Ibrahim Rahimtoola moved that the port of Calcutta should be opened to pilgrim traffic. He supported the motion on the ground that Calcutta was a pilgrim port until the outbreak of plague rendered it necessary to close it. Between 27 and 40 per cent. of the pilgrims went from Bengal, and the consequence of concentrating all the traffic in Bombay was seriously to overcrowd the accommodation for pilgrims in that city and to lead to such a congestion of traffic that steamer fares had rapidly risen. The resolution was supported by the majority of the unofficial and all the Mahomedan members of Council, but it was opposed by Government. The Hon'ble Sir Harcourt Butler, explaining the ground of this objection, said that the Government of Bengal had consulted several leading Mahomedans, who agreed that no useful purpose would be served by opening the port of Calcutta to between revenue and expenditure, and a true Imperial surplus, arises from the fact that the had consulted several leading Mahomedans, who agreed that no useful purpose would be served by opening the port of Calcutta to pilgrim traffic. The requirements of the Turkish Government made it necessary that certain sanitary measures should be observed beforpilgrims embarked, and it was clearly impossible that these should be provided in every port in India. Even when Calcutta was open as pilgrim port it was little used, for during the six years prior to 1895 the average number of pilgrims leaving from it was only 414. Noone pilgrims leaving from it was only 414. No-one pugniss leaving from it was only 414. No-one who could slip across Indis by rail would desire to make the long journey round the coast by sea, and there was not a shred of evidence to show that anyone in Bengal wanted Calcutta opened to the traffic. The resolution was rejected by 33 votes to 18.

The Hon'ble Maharaja Ranajit Sinha of Nashipur moved that the Local Governments be consulted as to the desirability of amending the Court Fees Act so as to provide that a molety of the Court fees paid in civil suits be refunded if such suits are decided exparts. He said he was convinced that if this course was adopted the number of litigations would be decreased. Out of the total number of 2,025,440 cases disposed of in 1912,323,704 were decided without trial. So out of the remaining number namely, 1,701,742 cases 349,818 were deci-

ded on compromise and confession and 685,743 were decreed ex parte. If the parties in ex parte decrees were to pay only half the pleaders fees and if a moiety of the Court fees were remitted he was sure the number of litigations would be considerably decreased. The Home Member sympathised with the resolution in so far as it proposed that the Local Governments should be consulted, and the resolution was with-

The Council re-assembled on March 7, when the Hon'ble Maharaja Ranajit Sinha of Nashipur moved that the Bengal Government receive a non-recurring grant of five lakhs of rupees for education and sanitation. He argued that the death-rate in Bengal was high and increasing, and that a determined effort must be made to combat the ravages of malaria. On this resolution the Houble Sir Ibrahim Rahimtoola asked a very pertinent question. It was what contribution local residents in Bengal made to the cost of the sanitary administration.

Bengal was considered to be the richest province in India, yet the incidence of municipal taxation in Calcutta was far lower than in Bombay. The resolution was opposed by the Government on the two-fold ground that the mover had not indicated where the money was to come from, and also because the grants already made to the Bengal Government exceeded their spending capacity. The resolution was rejected. A similar request was made on behalf of the United Provinces by the Hon'ble Rai Sri Ram Bahadur, with the difference that he asked Bahadur, with the difference that he asked for twelve lakis. It was opposed on the same grounds as the previous one, and was withdrawn. The same topic was brought up in another form by the Hon'ble Pandit Madan Mohan Malaviya, who asked for a recurring grant of eight lakhs for the United Provinces for expenditure on - sanitation and medical relief. The resolution was opposed by Government on the ground that the United Provinces had been liberally treated in the way of special grants, and had an unspent provincial balance of 112 lakhs, and it, was rejected. The Ruyble of 112 lakhs, and it was rejected. The Hon'ble Rai Sri Ram Bahadur asked for the increase of had si hain bandur asked for the increase of the famine insurance grant to the United Provinces from 44 lakhs to 124 lakhs, on the ground that the Province had suffered from famine to an exceptional degree. The Finance Member promised to give attention to the matter and the resolution was withdrawn.

These provincial requests for changes in the Budget having been settled, the Hon'ble Pandit Madan Mohan Malaviya moved a general resolution that the grant for education and sanitation be increased by £640,000, and that the unallotted surplus of £1,280,000, be reduced by that amount. The main ground on which he advocated this amendment of the budget was that the surplus was excessive in the conditions of India whilst the demands for education and sanitation exceeded the provision made in the budget. The Finance Member maintained that the surplus was no more than was encessary in the conditions of India, It was desirable to maintain the irrigation and railway programmes, and the borrowing powers of the country were limited and could not be suddenly expanded. Moreover, in the conditions of India, where a failure of the rains might cause a fillure of the rains might cause a fillure of the rains might cause a fillure of the rains might cause a fillure of the rains might cause a fillure of the rains might cause a fillure of the rains might cause a fillure of the rains might cause a fillure of the rains might cause a fillure of the rains might cause a fillure of the rains might cause a fillure of the rains might cause a fillure of the rains might cause a fillure of the rains might cause and the whole matter had been cresolution was then withdrawn.

balance was not excessive. The resolution was rejected.

The Hon'ble Pandit Madan Mohan Malaviya then moved that the provision of 12 millions for capital expenditure on railways be reduced by two millions and that a corresponding reduction be made in the charges for interests. This was in reality an offshoot from the previous resolution, the mover implying that if a 12 million railway budget was maintained large surpluses would be budgetted for in order to meet it. The resolution produced a lively difference of opinion. For instance, the Hon'ble Sir Ibrahim Rahimtoola, whilst agreeing with the necessity for railway construction, held that it should be provided entirely by borrowings. The Hon'ble Raja Kushal Pal Singh, answering the question what the tillers of the soil thought about the expenditure on railways, bore testimony to the value of railway as an agency for mitigating the severity and intensity of famine. The Resolution was rejected.

When the Council re-assembled on the 9th of March the discussion of the Budget was continued. The first resolution was moved by the Hon'ble Pundit Madan Mohan Malaviya who recommended that the recurring grant for Education in the United Provinces be increased by 22 lakhs of rupees. His argument was that the grants made to the United Provinces in the past were inadequate and Illiberal and there was much leeway to be made up. The Provinces felt that they were being kept out, in large measure, from the progress and improvements in various directions made in other provinces. The Hon'ble Mr. Sharp, speaking for Government, refused to allow that there had been any disparity in the distribution of the Imperial Government's grants to the province for education and sanitation and the resolution was rejected.

The second stage of the discussion on the financial statement was reached when the Hon'ble Sir Robert Carlyle introduced the heads of the financial statement which related to the work of the Revenue Department. A feature of the statement was the increased attention which is being paid to the development of the commercial side of the Indian forests. The Hon'ble Mr. Pundit then moved a resolution urging that £2,000 be earmarked for and applied to the grant to the Indian students of ten additional state technical scholarships of £150 each tenable abroad. He said the Indian students who for a long time had moved in one educational groove, the Arts course, are now taking largely to science, to technical education and various other commercial pursuits. It was necessary to give the requisite impetus to these students by providing larger number of scholarships and making their opportunities more extensive than they are at present. In the discussion it was pointed out that there was considerable difficulty in getting the right class of student for the existing scholarships and in finding satisfactory employment for those who returned. The Governments on this point and it was impossible to accept any resolution until these replies had been received and the whole matter had been considered. The

The Hon'ble Maharajah Ranajit Sinha of | Nashipur asked for a non-recurring grant of one lakh of rupees or such sums as the Government might think proper to be made to Delhi Province for the improvement of the sanitation of Delhi City. The resolution was opposed on the ground that Delhi had already been liberally treated and it was withdrawn. In the second stage of the financial statement the Hon'ble Mr. Clark introduced the heads relating to the Commerce and Industry Department. All these Departments are dealt with under their separate heads and the only topic was the question of the re-organisation of the Railway Board. In future, instead of the Board consisting of three members all having railway experience, one member is to be selected for financial and administrative or other commercial experience, while railway experience is to remain as before a necessary qualification for the other members.

Anyone of these three members is to be eligible for the office of President. The Hon'ble Sir Reginald Craddock also introduced Budget heads dealing with the Home Department. On this the Hon'ble Mr. Pundit moved that one and a half lakhs of rupees be applied for the employment of women medical practitioners on the scale of salaries corresponding to that of civil assistant surgeons with a view to according greater medical relief to women. The main object medical feder to women. The main objects in moving this part of the resolution was that the activities of the Countess of Dufferin's fund should be increased and supplemented in order to bring skilled medical assistance within the reach of a larger number of Indian women. The Director-General of the Indian Medical Service pointed out that it was necessary to increase the facilities for training Indian women in medicine and it would be wise to wait until the Medical College for women at Delhi founded by Lady Hardinge was at work. The resolution was withdrawn.

The report of the Select Committee on the Repealing and Amendment Bill was adopted and the Bill as amended was passed. There was a lively discussion upon the Indian Companies Amendment Bill. This was concentrated round one clause in the Bill, namely, whether the interests of shareholders should be further protected by the enactment of a clause providing that a majority of directors of public companies should be independent of the firm of managing agents. The Hon'ble Sir Ibrahim Rahimtoola moved an amendment to this effect and made great play with the atteration in the standpoint of the Member for Commerce in deference to the pressure of the Calcutta Chamber of Commerce. He was very strongly opposed by the Hon'ble Sir Fazulbhoy Currimbhoy, also of Bombay, and the amendment was lost by 44 votes to 7 and the Bill as amended was passed. During this discussion His Excellency the Viceroy made an important statement on the subject of the Indians in Africa. He referred to the work of the Comment and speaking of its recommendations said: "In these recommendations I find a very complete and astisfactory attempt to arrive at a final solution of the difficulties that have arisen. In South Africa, and I should like to take this opportunity of expressing the warm appreciation of the Government of India of the Bovernment of India of the

these difficult questions have been approached and dealt with by the Commission. I believe the presence and active co-operation of Sir Benjamin Robertson, to whom we are indebted for his firm and conciliatory attitude, has very materially contributed to the formulation of these proposals, and I feel confident that if, as I sincerely trust will be the case, they are adopted by the Union Government and combined with sympathetic administration of the existing laws, they should undoubtedly lead to a lasting settlement."

The Indian Criminal Law Amendment Bill introduced by the Hon'ble Sir Reginald Craddock is designed to deal with a particular class of contempts of courts which is either totally unprovided for in India or else is not provided for in a clear and satisfactory manner.

There was another lively discussion on the Indian Criminal Law and Procedure Amendment Bill. The Home Member took the unusual course of moving that the Bill as amended by the Select Committee be republished. The reason for this was that there had been much controversy regarding the rescue provisions of the Bill, many Indians fearing that it would lead to conversions to Christianity. The protagonist of those who desire that the rescue clauses should be omitted from the Bill was the Hon'ble Mr. Vijiaraghavacharlar. The motion that the bill be republished was put and agreed to.

A series of resolutions was moved by the Hon'ble Mr. Surendranath Bannerjee to develop local government in India on the lines of the recommendations of the Decentralisation Commission. The first of these urged that, subject to the maintenance of prescribed minimum balances, municipalities should have a free hand in respect to their budgets; that municipal councils should as a rule elect their own chairmen: that District Boards should contain an elective majority chosen by the non-official members of the sub-district boards; and that village panchayets should be formed where practicable. The principle underlying all these practicable. The principle underlying an accordanges was the increase in the elected membership of the local bodies, and in supporting the resolution, the mover claimed that it only asked for the development of the principle to which the Government of India was committed. The discussion was carried into the sitting of March 19, when the Hon'ble Mr. Porter claimed that the Government had already advanced a considerable degree on the road outlined by the Decentralisation Commission. They were prepared to make considerable relaxations in the control of the finances of local bodies; the substitution of non-official for official chairmen had been carried out as far as practicable; in most provinces an elective majority on district boards had been established; and the formation of panchayets was under consideration. The resolution was therefore withdrawn. Another phase of this question was brought up when Mr. Bannerjee moved that Presidents up when Mr. Bannerjee moved that Presidents of district and sub-district boards should be elected; that advisory councils should be formed to help the Magistrate-Collector in the discharge of his executive duties; and that a Local Government Board be formed in each locality of the control way warm boards. province for exercising control over rural boards and municipalities. The gist of this resolution

lay in the proposal to establish Advisory Council in the Districts—a proposition which had been previously debated in the Council on the motion of Mr. Gokhale. It produced a trenchanteply from the Hon'ble Mr. Arthur of Bombay, who thus defined the duties of the district officer. "The Collector is responsible for the peace of a district of perhaps 5,000 square miles and for the well-being of a population of a million or more living in a few towns and 1,400 or 1,500 villages; he is responsible for the collection of revenue and the control of a large revenue staft; he supervises the work of a number of Subordinate Magistrates; he is the head of the Police and the forest department; he is President of the District Board; he is District Registrar; he is political agent or any Native States attached to the District; he supervises the work of Municipalities; in consultation with the Executive Engineer he makes out a scheme of public works; he is responsible for famine administration and for measures to deal with cholera and plague epidemic." The recital of these duties, Mr. Arthur contended, showed the inapplicability of a system of advisory-councils. The Government opinion was expressed by the Home Member, when he said that the proposal was impracticable; that it was radically defective; that it had no part in the present system of administration under which greater powers of local self-government are given to the people of this country. The first part of the resolution was withdrawn and the other two parts were rejected.

The Hon'ble Rai Sita Nath Ray Bahadur proposed the amendment of the Transfer of Proposed the amendment of the Transfer of Proposed the amendment of the Transfer of Proposed the amendment of the transfer of Proposed to the deposits of title deeds priority over registered mortages executed on dates subsequent to such deposits. The resolution was withdrawn. The Council then adjourned to March 21, when the Hon'ble Sir Reginald Craddock introduced a Bill to amend the Code of Criminal Procedure. On March 24 there was the omnibus debate on the Budget. In the days of the unreformed Council this was the full dress discussion of the Budget. But since the power of moving resolutions on specific heads was concreded, the debate has receded in importance. It was marked by a notable review by the Viceroy of Indian polity, and especially of foreign affairs. Touching on affairs in Persia, which have been watched with the greatest interest in India, he said:—"I told you in September last of the disinterested attitude of His Majesty's Government towards Persia, and that we had recently lent the Persian Government a considerable sum of money for the creation of a force of gendarmerie under Swedish officers with a view to the suppression of anarchy in Southern Persia and the restoration of order and security on the trade routes, where British and Indian trade had suffered serious loss during the past few years. I am glad to say that our hopes have so far not been disappointed. The regiment of gendarmerie, which was raised at Shiraz, has been employed during the winter in patrolling the roads and has dealt successfully with the robber bands who infested it. It is true that quite recently these gendarmerie

some situation at Kazerum, but I am glad to learn that on the arrival of reinforcements the tribal rising dispersed, and that order has once more been restored. Evidence of the successful activity of the gendarmerie is shown in the improved returns of British and Indian trade in Southern Persia. Another force of gen-darmerie has been dealing with the situation on the trade route between Bunder Abbas and Kerman, and, although they have had some serious engagements with the Perso-Baluchi tribes in that neighbourhood there is every reason for confidence in their ability to restore order in the immediate future. The action in South Persia of the Swedish officers and the Persian gendarmerie appears to have been eminently successful, and to be worthy of un-stinted praise. I may point out that the only alternative would have been the despatch of a atternative would have been the despatch of a British expedition to Southern Persia for the restoration of order in those provinces—a policy to which, with the entanglements and expenditure it would entail, the Government of India have always been firmly opposed: and I would only ask those, who have been somewhat lavish in their criticism of the attitude of the British Government in Persia, now to recognise what we in India owe to Sir Edward Grey for his policy of disinterested support, and abstention from interference in the internal affairs of Persia." His Excellency also pointed out that the support of the s analis of Persia. His Enteriory and political out that the conclusion of the agreement with the French Government by which they recognised the new Arms Traffic Regulations drawn up by the late Sultan of Muscat would mean the effective prevention of the arms traffic. Relations with Afghanistan continued to be most friendly and cordial and there had been most friendly and cordial and there had been only one complaint to present to the Afghan Government and that was with regard to the depredations on British territory by gangs resident in Afghan limits, particularly from the coast. His Excellency also made an important pronouncement of policy on the question portaint pronouncement of poincy on the quession of the cost of the new Delhi saying "I will now endeavour to give as succinctly as possible the figures of the estimate as amended by the Public Works Department. I may mention that as a result of their careful scrutiny the charges under certain headings have been reduced, while others have been increased, but the net result has been a material reduction of the total estimate as sent up by the Delhi Committee.

The figures are as follows under their various headings:—

•	Rs.
A.—Salaries and allowances	70,18,700
B.—Travelling allowances of	. '
officers and establishment	6,30,000
C.—Supplies, services and con-	' **
tingencies D.—Works Expenditure—	3,78,600
(1) Buildings	3,59,87,200
(2) Communications	29,91,800
(3) Parks and Public impro-	
vements	27,34,500
(4) Electric light and power	43,40,700
(5) Irrigation	27,49,000
(6) Water supply, sewerage, drainage, etc.	1 200
drainage, etc.	73,77,900

		•			Rs.
(7) Puro pla		of 	tools	and	35,50,600
(8) Surv prelin	ey can inary	nps a expe	nd gene nditure	eral	42,82,100
(9) Mair struct		ce d	luring	con-	20,09,000
E.—Acqui up	sition	of	land	taken	36,48,200
F.—Other diture	misce	ellane	eous e	xpen-	6,000
Ded	luct—A very plant	fron	ipated 1 tools	reco- and	10,00,000

These figures when added up, make an aggregate total of Rs. 7,67,04,300 or £5,113,620. But as we are anxious to face our liabilities for starting the new city to the fullest extent possible, we consider it necessary to make a special provision for contingencies and unforescen expenditure in excess of the usual provision that has been made of 5 per cent. on the works outlay by adding a sum of one and a half crores or £1,000,000. We have accordingly a very large reserve to meet future possibilities which we are not able to foresee at present. I should add that the expenditure of this additional crore and a half on unforescen contingencies will be strictly controlled by the Government of India, and no part of it spent unless absolutely necessary."

The Council then adjourned sine die.

The Autumn Session of the Council was very brief, but was one of exceptional importance because it commenced after the declaration of the war. The first sitting was held on September the 8th when there was read to the Council His Majesty's address to the Princes and peoples of India in relation to the war: "Amongst the many incidents that have marked the unanimous uprising of the population of my Empire in defence of its unity and integrity," it said, "nothing has moved me more than the passionate devotion to my Throne expressed both by my Indian and English subjects and by the Feudatory Princes and Ruling Chiefs of India and their resources in the cause of the realm. Their one-voiced demand to be foremost in the conflict has touched my heart and has inspired to the highest issues the love and devotion which, as I well know, have ever linked my Indian subjects and myself." Seesing the Excellency said, "It has been a source of profound satisfaction to me that the attitude of the British Government has been so thoroughly appreciated in India and has met with such warm support. I have no hesitation in asying that the valuable offers of military assistance that I have received from the Ruling Chiefs of India and the countless offers of India service and of material help made to

me by both rich and poor in the provinces of British India, have touched me deeply and have given me one more proof, which I never needed, of what I have long known and never for an instant doubted, viz., the deep loyalty and attachment of the Indian people to the King Emperor and the Throne and their readiness to make any sacrifices on their part to further and strengthen the interests of the Empire." The other important point in his speech was a reference to the question of Indian Emigration to the Dominions which had been brought to a head by the voice of the Komagata Maru whose passengers were not allowed to land at Vancouver. The Viceroy pointed out that the Dominions had been empowered with authority to regulate the management of their internal affairs as seemed best to them. It was beyond question that the control of emigration was primarily an internal question for each self-governing unit must know best what materials it desired to form its future citizens. The Government of India had long and consistently contended for the principle of free migration between all parts of the Empire. This had however placed them in a position of isolation. He proposed therefore that only by negotiations with the Colonies on a basis of complete reciprocity could a solution be reached.

The Hon'ble Sir G. M. Chitnavis in a notable speech and resolution asked the Viceroy to assure His Majesty of Indian loyalty and to allow India to pay some part of the cost of the war. He defined the loyalty of India as being based on gratitude for the past, contentment in the present and confidence for the future. History and experience had taught-Indians the solemn truth that the maintenance of the enlightened British rule was an essential condition of the moral and material progress of their country and of the fruition of their political aims and aspirations. Yet there was a higher and nobler reason for their firm and unstinted support of the British Empire. The official papers made it clear that all who died on the side of Britain died martyrs to the cause of humanity, peace and civilisation. The resolution was endorsed by the whole Council and the Viceroy accepted it in so far as the actual pay of the troops from India sent to the front will be borne by the Indian revenues.

The second and last meeting of the autumn session was held on the 16th of September when the Council considered the Sea Customs Bill, the Life Assurance Companies Bill, and the Indian Telegraph and Post Office Bill. which were passed without discussion. The Indian Army Bill was also passed as well as the Indian Airships Act and the Repealing and Amendment Bill.

This closed the autumn session. The next session of the Council will be held in January 1915.

Bombay Legislative Council.

The Council met at Bombay on December 16, 1913, when His Excellency the Governor, in opening the proceedings, spoke on the procedure of the Council. He said he did not think it advisable to extend the time limit of speeches on the budget, but that matters of individual interest could be better brought forward by means of resolutions. He expressed the wish that the debates should be more lively and real, and announced that with that object in view Government had decided that in the future as to Resolutions every member, elected or nominated, should be free to speak and vote as his judgment and conscience bade him do.

The most important business before the Council was the first reading of a Bill further to amend the Karachi Port Trust Act, 1886. The Hon. Mr. C. H. A. Hill moved the first reading and said there was no longer any reason to distinguish, as was done in the original Karachi Port Trust Bill, very greatly between harachi Fort Trust Bill, very greatly fletweet the regulations for its governance and those obtaining in Bombay: the Bill removed res-trictions which did not obtain in Bombay and thereby assimilated Karachi to Bombay. Clause 8 of the Bill proposed to reduce the representation on the Port Trust of the Karachi Municipality from two members to one, because the Municipality had lately falled to return, (as was the intention of the legislature that they should do), an Indian member conversant with commerce, but the second member, a representative of Indian trade and commerce, was to be nominated by Government. Sir Ibrahim Rahimtoola urged that either the two seats should be left to the Municipality on condition that both members elected by them should belong to the commercial community, or that the procedure laid down for the Bombay Port Trust should be adopted. He was followed by Sir Pherozeshah Mehta who said that the Municipality was more capable of returning a fit member to the Port Trust than the Government themselves, and on that and other accounts he appealed that the Municipality should not be partially disfranchised. The Bill elicited an amount of discussion that had not been expected by the mover, who in his reply said he hoped there would in a short time be mercantile bodies in Karachi competent, by their constitution and the composition of their membership, to elect and send up members and as soon as that was the case Government would respond at once. H. E. the Governor pointed out that the Bill had been supported by every member from Sind, including the President of the Municipality, and he hoped that the Bill might be passed into law that afternoon. Some opposition being raised to this, after the Bill had been read a first time, further discussion Bill had been read a prest time, rurtner discussion of it was postponed. The points raised on the Bill at this meeting of the Council were again brought forward at the March 1914 meeting on a proposal to send the Bill to a Select Committee, but, after H. E. the Governor had appealed to the better sense of the members in regard to that suggestion the Bill was passed.

A Bill to amend the Bombay Irrigation Act, was read a first time and referred to a Select Committee. It is designed in the interests of the agricultural community to improve the

unsatisfactory conditions under which second class works are managed. An interesting point of procedure was raised in the course of a later discussion of this Bill, when on a division it was found that there was an equality of votes, and it was found impossible at the moment to decide whether the President was entitled to give a casting vote. After an adjournment it was announced that the President had the prerogative and he used it by voting against the amendment: but a proviso designed to give effect to the wishes of the minority was inserted in the Bill.

The Financial Statement, presented in March 1914, showed that the revenue had exceeded the estimates and expenditure had been less than was anticipated, with the result that there was a surplus of Rs. 182 lakhs. The estimated revenue for 1914-15 is Rs. 758 lakhs and the estimated expenditure is Rs. 823 lakhs. (For further details, vide Bombay Presidency Finance.)

At the December 1913 session a Town Planning Bill was introduced by the Hon. Mr. C. H. A. Hill, but discussion of it was postponed until March. It is the first attempt of its kind in India at legalising & organising town planning in respect of new areas for residential purposes, and the general principle of it met with approval. It is to be applied primarily to the island of Salsette, which since 1896, the year of the first outbreak of plague in Bombay, has been colonised from Bombay without due regard to order or sanitary convenience: but it may be extended to other areas on the application of the local authorities.

A most instructive debate took place on a Bill to amend the District Municipal Act, which proposes inter alia that Municipal Commissioners should be appointed for Municipal Districts with a population of 150,000, e.g., for Ahmedabad and possibly for Karachi. Discussion centered round four points:—(1) appointment of Municipal Commissioners for towns of increasing importance in the districts: (2) residential qualifications for candidates for councillorships: (3) eligibility of dismissed servants to get themselves elected in the Municipal Council: and (4) a new section which deals with the question as to when a Councillor should be taken to have resigned his seat on a municipality. The Bill was read a first time and referred to a Select Committee, and passed the third reading at the July session, which lasted for six days and so constituted a record.

Two other Bills occupied the attention of the Council, one being a Bill to amend the Bombay Land Revenue Code of 1879, and the other a Bill to amend the Bombay Port Trust Act. Both were read the Bombay Port Trust Act. Both were read the third time. The former is a short Bill containing three clauses of which the second aims at effecting a small amendment in Section 84 of the Bombay I and Revenue Code and provides that an annual tenancy shall require for its terminating a notice given in writing by landlords. The third clause intends to provide that the relief given by the Government, through the system of remissions and suspensions, shall reach the actual cultivator when that cultivator is a tenant holding under a superior holder. The object is to

secure that when the superior holder is benefited by the suspension of a remission of revenue granted by the Government he shall pass on the benefit to the tenant who holds under him.

The Port Trust Amendment Act was introduced because it was considered desirable to increase the number of Trustees by the inclusion in the Board of a military officer intimately acquainted with the defences of the port and competent to explain the military requirements and other arrangements necessary in time of war. Clause 2 of the Bill repeals Section 31 of the Act of 1879, which is now inoperative. This section refers to the sale of property of the Port Trust, the proceeds of which were, when the Port Trust was formed, to be devoted to the redemption of debt. Now the provision of a sinking fund has made this provision superfluous. An amendment to the Bill, subsequently withdrawn, proposed that three nominated seats should be given up to elected members and that representatives of the Indian community should occupy five elected seats.

Among the resolutions was one, in the name of the Hon. Mr. Belvi, appealing to Government not to force the kulkarnis, or village accountants, to commute their right of service. This drew from H. E. the Governor a strong rebuke to the mover who had suggested that the kulkarnis were intimidated by the mamlatdars. "We must," said His Excellency, "do

away with a system that has led to dishonesty It is an undesirable system which we are bound to do away with in the Interests of the Government service. The Government's position is, therefore, perfectly strong. We desire efficient government and fairness to kulkarnis, and we wish to secure general efficiency throughout."

The final Session of the Council was held in Bombay on December 8 and 9. On the first day a resolution was moved by the Hon-Moulvie Rafluddin Ahmed expressing the unswerving loyalty of the Council to the Empire in the war, and many notable speeches were made, emphasising the increased convlction of all in the justice of the cause which had forced the Empire into the war, and the hope that it would be prosecuted to a completely successful issue. The resolution was unanimously adopted. The Town Planning Bill was read a third time and passed, with an expression of the hope that as it was a new measure to India it would be administered with extreme care and forbearance. A Bill to provide for the Survey of Bombay City was read a first time and referred to a Select Committee, after a breezy protest against the clause which seemed to imply an inquiry into title. A Bill to provide for the levying of dues on vessels in order to provide for the better lighting of the coast of Sind was also read a first time with the approval of the commercial interests of Karachi.

Madras Legislative Council.

Legislation of considerable importance was considered and undertaken during the year 1914 by the Madras Legislative Council. The Tirupathi Devastanam Schools Bill, which was introduced in February by a Non-official Member and which may be brought up for deliberation during the later Sessions, is of purely local interest as it affects two English Schools at Tirupathi and Vellore and a Sanskrit College at the former place. These were hitherto maintained by the Mahant of Tirupathi out of the funds of the famous temple on the Tirupathi Bill, but the Madras High Court regarded with doubt the legality of this expenditure, and therefore this Bill was introduced to legalise the use of temple funds for the maintenance of these schools. It is said that the direct objects of the temple would not suffer any detriment by this measure, as the income of the temples is much over its expenditure and as there is a surplus of nearly Rs 60 lakhs to the credit of the Devastanam.

Estates Act.—A few grave defects came to light in the Madras Estates Land Act during the six years that it has been in force since 1908, and on the representation of several landholders in the Presidency, the Madras Government introduced into the Council a measure designed to remedy those defects, and simplify procedure in courts. The Estates Land Act has excited so much interest in the public mind that, besides the Government Bill referred to above, four private Bills were brought forward by non-official Members to improve certain provisions in the Act, and all these Bills are now awaiting consideration with the Government measure.

The Hindu Transfer and Bequests Bill was introduced and passed into law whereby legislative sanction is accorded to a well-known principle of Hindu Law which enables transfers and bequests to be made in favour of unborn persons. A contentious measure that roused much opposition from various quarters was the Madras Medical Practitioners Registration Bill introduced by the Hon'ble Dr. Nair. It provided for the registration of Medical Practitioners in the Presidency under the control of a Council, so that the standard of medical education in the Province should be kept up to the mark. Though it was modelled on the British Act and closely followed the Bombay enactment, with only such variations as were rendered necessary by the local conditions peculiar to the Madras Presidency, it encountered much opposition from several other Non-official Members, who objected to the constitution of the proposed Medical Council, on the ground that it might become officialised and might act in a manner calculated to prejudice private enterprise and free competition. The Bill had, however, the support of the Government and it was passed into law without suffering any substantial alteration. The Madras Decentralization Bill was a minor measure introduced to carry out some of the recommendations of the Decentralization Commission, whereby some powers, scarcely of much importance, are delegated to subordinate authorities. It is based on the lines of the Bill introduced into the Imperial Legislative Council and much interest does not centre round it. The most important attempt at

legislation made during the year under review registation made during the year under review is represented by the proposal to have an Irrigation Law for Madras. The Bill that has been introduced into the Council for this purpose is intended to give statutory recognition to the position of the State regarding principle in the Pasidana Pasidana. irrigation in the Presidency, namely, that all rivers and natural streams as well as springs in unoccupied or Government land belong to Government, which has a right to levy a reasonable tax for the use of water from such sources. The governmental control of irrigation being for the public good, the need for legislation on this subject has been insistent. If the present Bill is passed into law, the Local Government will have entire control of all irrigation works for public purposes, and the application of water will be completely regulated by itself. Power is also conferred on the Government to assume control even of irrigation or drainage work not constructed or maintained by the Government, which however has to pay compensation for any substantial damage resulting from such assumption of control. All private interference will cease, except in so far as private rights can be acquired by grant or prescription. Civil Courts will have no jurisdiction to entertain suits or applications for the issue of any injunction to restrain the exercise of statutory powers conferred upon Government and its officers. The Bill also contains detailed provisions for the construction of water-courses and the repair of irrigation works and the irrigation channels and water-courses so constructed will be treated as State property subject to communal or private rights of user. This Bill is fraught with immense consequences for the future of irrigation in the Madras Presidency, and it is certain to arouse considerable interest all over the Presidency from ryots as well as landholders. Two non-official Members have given notice asking for leave to introduce two Bills that will have far-reaching consequences if they are passed into law by the Legislative Council. One of them is intended to validate Post-puberty Marriages

among Hindus and the other will make better provision for partition being effected among the members of Joint Hindu Families by introducing simpler means than at present, whereby a person can unequivocally declare his intention to become separate from the

Besides the above-mentioned legislative provisions, the Council has had to deal with subjects too numerous to mention brought up before it either by way of interpellations or by way of resolutions. The resolutions covered a large number of subjects and many of them dealt with questions of supreme public interest. The postponement and the recon-sideration of the proposed revision of settle-ments in two Districts of the Presidency, the making of better provision for the accom-modation of Indian Officers in the General Hospital at Madras, the formation of a Commospical at Madras, the formation of a Committee for the expansion of Elementary Education in the Presidency, the constitution of a Committee to consider the problem of the arrears that have accumulated in the Madras High Court—these were some of the noteworthy subjects that the Council had to convert the council had sider on Resolutions moved by Members, mostly Non-official. A few of the resolutions have been accepted by the Government. Some of them on the other hand were withdrawn on the assurance given by the Government that the matter would receive their attention, while some others have been negatived on the opposition of the Government.

The expectations formed when the Morley-Minto reforms were carried out of the new Legislative Councils have been amply justified by the nature and level of the debates that took place in the expanded Legislative Council. Criticism of Government action is generally sober and well-informed, and the work of the Council attracts larger public attention; for there is a desire among the members that constitute it to help and to co-operate, rather than to retard and censure.

Bengal Legislative Council.

Bengal Legislative Council was distinguished by a speech in which Lord Carmichael deprecated a tendency to divide the Council on the lines of Government and Opposition. "Government and opposition" he said, "cannot exist in our assembly in the same sense as they exist in England, at any rate if those who are not members of Government are to work effectively for their country. You non-official members beat us—the Executive Government —once, not long ago. I was not sorry when you did it, for it showed you what you could do. You may beat us again; and it may be well that this happens sometimes: but power carries with it responsibility and I trust that you will resist all temptations to beat us merely

The opening of the 1913-14 Sessions of the Mr. Stephenson in December 1913, when he engal Legislative Council was distinguished explained that its object was to establish a va speech in which Lord Carmichael depre- register of qualified medical practitioners which would enable the public to judge between practitioners who had authorised degrees and those who had not. In 1882, when the question of medical registration was raised by the Bombay Government, the Bengal Government of medical registration was raised by the Boun-bay Government, the Bengal Government refused to take action. But since then a number of unrecognised medical schools had sprung up which conferred degrees, and in 1908 the Faculty of Medicine of the Calcutta University and other bodies had urged upon Government the need of legislation. The Bengal Bill was based upon the Bombay Medi-cal Registration Act. It would set up a register of qualified practitioners and establish a Medical Council and Registrat to compile the register for the sake of beating us."

The two chief legislative measures which cocupled the Council word the Bengal Medical of nine members, four of whom would be exbill and the Calcutta Municipal Loans Bill. Bill and the Calcutta Municipal Loans Bill. office and five elected. The Bill would not Both led to prolonged discussions in the Council, interfere with the practice of medicine by any The Bengal Medical Bill was introduced by person whatever. Its only penalty clause

was one for the punishment of anyone falsely pretending to be a registered practitioner, and the only privilege which it conferred was that any medical certificate required by a Bengal Act could be given only by a registered

practitioner.

The Bill was opposed on the ground that it would not protect the public against unqualified practitioners, that it placed homeopaths in an invidious position, that it it gnored the merits of the Kaviraji profession and that it would discourage students from entering proprietary medical schools and thus the amount of medical relief available in the Province. To these objections the reply was given that the Bill in no wise interfered with any person practising medicine but merely gave the public a means of ascertaining what medical men possessed proper qualifications in Western medicine. At a later stage amendments were moved regarding the composition of the Medical Council and providing an appeal to the High Court from the decisions of the Council. Alwere rejected, the only substantial change made in the Bill being that an appeal to the Local Government from the decision of a bare majority of the Council was inserted. The Bill was passed.

The Calcutta Municipal Loans Bill, which had been introduced early in 1913, was taken up again, Mr. Stephenson moving on January 13 that the Report of the Select Committee be considered. The object of the Bill was to rectify the procedure of the Calcutta Corporation in the repayment of loans. The Government thought it necessary to substitute for the elaborate methods which the Corporation had borrowed from English practice the simplest form of sinking fund which would ensure without complications that when a debt has to be paid off the money shall be there to meet it. It was at first understood that the intention of Government was to limit the period of loans to thirty years, but this restriction was ultimately disavowed.

Strong opposition was offered to the Bill on the score that it was at variance with the principles of loan management recognised in England and that the practical effect would be greatly to increase the cost of Municipal borrowing. Amendments were moved providing that the period of repayment of a loan should be the life of the work to which the loan was applied and efforts were also made to maintain the Corporation practice of a common sinking fund in preference to the new proposal of a separate sinking fund for each loan. The Government however declined to accept any amendment which would define the period of a loan, except that the maximum term was fixed at sixty years, and, on the plea that experience had shown the necessity of absolute simplicity, adhered to the terms of their Bill, which was ultimately carried.

Among the other measures passed were the Bengal Municipal (Sanitary Officers) Bill which renders it necessary for every municipality with a population of over 10,000 to appoint a sanitary inspector at a prescribed salary.

In reviewing the provincial financial position cally a crime w for its detection dentedly large balance of Rs. 304 laths, wild serve no though partly due to an increase of ordinary was withdrawn.

Income, was mainly the result of inability to spend the large special grants received from the Imperial Government in recent years. Dealing with the principal heads of revenue, Land Revenue, Stamps and Excise which between them yielded two-thirds of the total income, he said that, while land revenue was a very slowly expanding head, stamps showed a satisfactory and steady increase. Excise was the most important single source of incomesince it was entirely provincial. In spite on an increased duty on country spirit, the returns had exceeded the estimate by fourteen lakhs. The total revenue under the present settlement would, it was hoped, give an expansion of 10 or 11 lakhs a year. At the same time ordinary expenditure was steadily increasing, and it was no easy matter to make the increase keep pace with the slow expansion of revenue. The first object of Government would be to place the equipment of all Departments on a satisfactory basis before attempting any extension of activities.

A Resolution was proposed by the Hon.
Mr. Surendranath Roy urging that the proposals
to abolish the Engineering College at Sibpur
should be dropped or that, if its present site
is considered unsuitable, it should be removed
to Calcutta or be made a branch of the proposed Technological Institute in Calcutta.
The resolution was specially directed against
the removal of the Civil Engineering Department to Dacca, and was supported by many
of the non-official members. The motion was
withdrawn upon an assurance being obtained
by Mr. S. P. Sinha from the Government that
the question would not be decided until the
report of the Public Services Commission was
issued.

Mr. Surendranath Banerjee moved a resolution recommending the appointment of a mixed commission of official and non-official members of the Council to inquire into the prevalence of dacoity in the Presidency. The reply of Sir William Duke to the proposal was of an important character. He that political dacoity had little to do with the prevalence of dacoity in the province. In the five years 1908-1912, the number of cases of dacoity reported in Bengal was 1,511. Of these only 54 were political. The proportion of political to ordinary crime was thus 31 per cent. The average number of professional dacoities a year was 300. This number, though serious, compared favourably with the case of Madras, where 417 dacolties were reported in 1911 and 464 in 1912, and with the position in the United Provinces where the number was 554 in 1911 and 511 in 1912. Sir William Duke added that the matter had not been neglected. In Eastern Bengal, where the police were weak, 50 new investigating centres had been established. A new force of river police had been constituted. In some districts defence parties had been organised to assist the villagers in opposing a united front to the dacoits. Hundreds of Government guns had been distributed to selected villagers, though with disappointing results, and rewards had been offered for the capture of dacoits. Dacoity being emphatically a crime which required expert knowledge for its detection, the proposed commission would serve no useful purpose. The motion

United Provinces Legislative Council.

The questions discussed by the United Pro-vinces Council during the session commencing in November 1913 and ending in November 1914 ranged over a wide area. In the discussion on the Town Areas Bill Mr. Raza Ali considered that Punchayets had not sufficient powers and should have the handling of town funds. He also proposed that the principle of separate electorates should be recognised on Punchayets. Government agreed to the in-sertion of a Clause that provision, if any, be made for the special representation of any classes, and the Bill was passed. A question which excited some interest was the resolution of Raja Kushal Pal Singh recommending amendment of the Council regulations so as to allow at least four seats to representatives of the landed interest. He thought it was a grave anomaly that land-holders should be repre-sented by only two members, one in Agra and the other in Oudh, and he claimed that the regulations in other parts of India had been more liberally framed. The Council was equally divided on the matter and it was therefore announced that it was unlikely that the Government would undertake any new altera-

The Hon'ble Lala Sukhbir Singh moved a resolution asking Government to stop the rapidly increasing Burma dry meat trade. In the course of the discussion official members said it had been proved that the cattle which were slaughtered for Burma were really worthless cattle which would otherwise have been a dead loss to agriculturists. The Lieutenant Governor said he could not accept the resolution on economic grounds. In the face of what had been said the mover withdrew his resolution, specially as Government announced that it intended to make rules for the better supervision of slaughter houses.

The Budget debate was of unusual interest as indicating the views of non-official members. Lala Sukhbir Singh said that the work of Police chaukidars was unsatisfactory. They were illiterate, and he suggested the establishment of night schools for their education. The Kour Sahib of Benares ventured the opinion that technical education was bound to be a failure as there was no demand for it. He thought that co-operative societies should be encouraged and argued that the peasantry of the Provinces were not receiving the attention they merited. Village sanitation was also a matter requiring attention. The late Hon'ble Ganga Pershad Varma expressed gratitude for the advance in self-Government which had been made by the appointment of unofficial chairmen to several second class municipalities of the province. He inferred that the Bombay system was intended to be introduced in the United Provinces and that an Executive Officer would be appointed to carry on the executive work of the municipality allowing the nonofficial chairman to conduct the proceedings of meetings. Babu Brijnand Pershad insisted that the revenue from excise indicated an increase in the consumption of liquor. Mr. Tweedy rebutted this assertion by stating that while revenue was increasing, it was due to enhanced rates and was out of all proportion

no rise in consumption during the last decade, Mr. Douglas Straight was glad that expenditure on the police had not met with any serious attack. The strength of the force, considering the persistence of dacoity, was at dangerous minimum, and he foreshadowed several reforms, including the increase of mornted notice. unted police.

The outbreak of the war in Europe enabled the Council to express the whole hearted support of the people of these provinces to the Government in the present crisis. The Hon'ble Syed Raza Ali moved the following resolu-tion: "The Council places on record its des-sense of unflinching loyalty and devotion to the person and throne of His Majesty the King-Emperor, and respectfully begs to assure His Majesty, through H. E. the Governor-General, of the readiness of the people of these provinces to render all such service to the British Government as lies in their power in the righteous war in which England is engaged at present. This Council further expresses its firm resolve to co-operate with the Govern-ment in carrying out all measures which may be found necessary to secure the safety or weifare of the public." The Hon'ble member expressed or the public." The Hon die member expresses gratitude at the initiative of the Viceroy in sending Indian soldiers to the front. He pointed out the various ways in which the people could help Government, by organizing ambulance corps and field hospitals, by finding money to be spent on the actual conduct of the war and by relieful conservations to relieve the and by raising subscriptions to relieve sufferings of the wounded soldiers and to afford help to the dependants of those soldiers who have been killed in the war. Mr. Syed Raza Ali also protested in the strongest terms against the absurd, fantastical and hopelessly ridiculous notions about the war which pass as news among the Indian masses. Much of this might among the indual masses. Much of this single have been sepected, but not the strong suspicion of mischief which has been brought to light. "I believe" said the Hon'ble Syed Raza Ali, "that it has already reached your Honour's ears the big German sirships have been seen suite suite constraints. been seen flying over every village, town or city in these provinces. Now, by actual experience, I know that some foolish persons or misence, I know that some rooms persons of mis-chief-mongers have been flying at night big paper kites, illuminated with red and green lights in Moradabad. It may be that these peo-ple actually bear no ill-will towards anybody. It may be that their real object is to make capital out of the panic that might be caused, but here again this is a matter in which we can, I am sure, do more than the Government in allaying the panic and communicating the true news to the ignorant masses." The Hon'ble member continued: "Then, again, as has been pointed out, more or less in every city there has been a rush on the Post Office Saving Banks. I need hardly go into the genesis of that panic but there is no doubt that money invested with Government is more safe than it would be anywhere else. As I pointed out at a meeting, if we have money in Government banks it must in any case be restored to us or our children. Whereas by keeping the money with himself a man runs the risk, in case of enhanced rates and was out of all proportion disorder, of being robbed of his cash and him-to consumption. In Cawnpore there had been self being killed." At the meeting on 16th

November, 1914, Sir James Meston addressed the Council as follows: "It will be within your recollection that on the 14th of September this Council passed two resolutions, one trelating to the message of condolence with His Excellency the Viceroy on the death of Lady Hardinge and the other expressing loyal tries ty to the person and throne of the King-Emperor. As requested by the Council, I duly submitted both resolutions to the Viceroy and I am commanded to read the following: The Viceroy will be grateful if the Lieutenant Governor will convey to the Council His Excellency's grateful thanks for their sympathy in ling great sorrow and his warm appreciation of 1913.

the loyal terms of the resolutions passed in connection with the war. His Excellency feels certain they are the truly voiced sentiment of the Province."

It was amounced that the sanction of the Secretary of State had been received to the appointment of a permanent Director of Industries and that the Local Government would appoint a suitable officer as soon as possible, At the meeting three Bills were passed, viz., the United Provinces Excise Amendment Bill, 1914; the United Provinces District Courts Amendment Bill, 1914; and the United Provinces Steam Bollers and Prime Movers Bill, 1919

Punjab Legislative Counci

At the meeting of the Punjab Legislative Council held in March, 1914, the Hon'ble Mr. Mant, in presenting the revised financial statement, showed that although suspensions of fixed land revenue had been necessitated by the scarcity of rain in some parts of the Province, in the central parts, at any rate, the year had been good for the agriculturists. There had recently been a revival in the demand to purchase proprietary rights in the Chenab and Jhelum Colonies. The Budget anticipated a deficit of nearly 26½ lakhs of rupees, which was covered by unexpended balances of Imperial grants: the normal revenue was now sufficient to meet the present standard of expenditure. The year was expected to close with a balance of 144 lakhs, of which only 141 lakhs were earmarked for special purposes. Besides this the Punjab Government were now beginning to dispose of waste lands commanded by the new canals which should eventually bring in to the Provincial Exchequer five crores of rupess. In making his statement he briefly referred to the agreement concluded between the Punjab Government and a London Syndicate for the manufacture of cement in the Punjab. He repeated a repudiation that Sir Louis Dane was financially interested in the undertaking and said that the Province would benefit by the introduction of a new local industry and by the supply of cheap cement to the general public.

In the debate which followed the Hon'ble Mr. Rai Bahadur Ram Saran Das suggested that where strained feelings existed between Mahomedans and Hindus Conciliation Boards should be constituted upon the plan proposed in the United Provinces. He also suggested that Government should make grants to different religious bodies as had been done by Akbar for the restoration or maintenance of religious edifices and institutions. The Hon'ble Rai Bahadur Bakshi Sohan Lai drew attention to what he described as the universal desire that the status of the chief court should be raised to that of the High Court. He also asked for a pronouncement on the question of creating an executive council for the Punjab. The Hon'ble Mr. Muhammad Shafi asked that more permanent income should be earmarked for sanitation and education. He thought Local Government should take measures to obtain from the Government of India authority to invest a greater part of its balances year after year in order to enable it to devote

the income derived thereby to those two wants The Hon ble Nawab Sir Bahram Khan pleaded the cause of Dehra Ghazi Khan which he described as rulned by the strong hand of the Providence. He said that roads, watersupply and sanitation were the chief needs of the town. The Hon'ble Sir P. C. Chatterji pressed the advisability of having a number of public libraries throughout the Province. His Honour Sir Michael O'Dwyer in a lengthy speech reviewed the debate. He showed what had been done at Dehra Ghazi Khan and dealt briefly with criminal administration. He considered that public opinion was beginning to wake up to the need of supporting the cause of law and order with the result that efforts to cope with crime were becoming more successful. He thought that Conciliation Boards would not form the best means of reducing friction between the Hindu and Mahomedan communities. It would be better that the local authorities should approach Government with a view to advising means for an amicable settlement. He was surprised to hear the suggestion that an executive council should be created. The Punjab had progressed and prospered under the system to which it was habituated of regarding the Lieutenant-Governor as the sole head of. and in the last degree responsible for, the administration of the Province. Other Provinces in which executive councils had been established had a larger population and therefore there was in them a greater need for relieving the head of the Province by giving him colleagues. His Honour concluded his speech by referring to the attempts of anarchists and extremists to gain a footing in the Punjab.
The Hon'ble Khan Bahadur Mian Muhammad

The Hon'ble Khan Bahadur Mian Muhammad Shafi moved a resolution on the problem of beggary in which he said that, according to the latest census returns, every forty-second person one met in the fertile land of five rivers was a beggar who, instead of leading the healthy life of a self-respecting citizen, was a verifable nuisance to the circle in which he moved. The resolution was that "This Council recommends to the Government that it may be pleased to appoint a committee consisting of officials and non-officials to consider and formulate proposals for the purpose of preventing professional beggary, and in particular of stopping boys and girls from being turned into or sent out as beggars and mendicants by their parents, preceptors or other persons who may for the time being have the care of such minors." A

number of speakers followed. The Hon'ble Mr. Kettlewell explained the inability of Government to accept it in the form in which it was framed, and His Honour the President stated that it would be best to await the result of the Committee which had been appointed in the United Provinces to inquire into the subject of beggary. The resolution was ac-

cordingly withdrawn.

The Hon'ble Mr. James Currie moved a resolution to the effect that Government should reconsider the matter of the agreement entered into for the supply of Portland and other cements and take steps to remove the danger threatening private enterprise committed to existing cement and lime works. He was supported by Mr. Muhammad Shaft. He said he was not in favour of granting a monopoly to anyone unless the circumstances were so exceptional as to justify the necessity of such a pro-cedure. After the Hon ble Mr. Mant had given his assurance that Government would take

steps to ensure that the Company in question would not become the tool of any combine the resolution was withdrawn.

At the September meeting of the Council, the Hon'ble Mr. Barron introduced a bill to amend the Punjab Courts Act, 1914, which supplies a legal omission in regard to the period of limitation for second appeals to the chief court. A resolution with regard to the war was introduced by His Honour the President conveying to the King an expression of devotion and loyalty of the Punjab. He was supported by the Hon'ble Sardar Daljit Singh, the Hon'ble Khan Bahadur Mian Muhammad Shafi, the Hon ble Sir P. C. Chatterji and other speakers. His Honour said that he had been particularly struck by the readiness of the Punjab to make any sacrifice, whether in men or in money, and by the fact that this war had established a common bond helping to bring about a better mutual understanding between all classes.

The Public Trustee.

The Public Trustee of England is a Govern-. ment Official created by Statute (Public Trustee Act, 1906), whereby the State acts as an executor or as a trustee under Wills, and as a trustee under Settlements, whether these instruments are new or old, and in other offices of an analogous character.

The office has been a great success; in the seven years that it has been open the value of the trusts in course of administration have amounted, in round figures, to £50,000,000, while the estimated value of Wills lodged in the Department which have yet to mature is put at some £59,000,000, showing a total value of business of all kinds negotiated £110,000,000.

Fees chargeable.—The office is now entirely self-supporting and is no charge upon the tax-payer. A provision of the Statute declares that the Office is to make no profit but to charge only such fees as may provide the working expenses and constitute a reserve fund against the liabilities assumed by the State for breach of trust. In accordance with this mutual principle the fees have already been reduced from their original scale, and the cash surplus of fees over expenses, regarded as the nucleus of a reserve fund for all contingencies, is now £14,585.

The main fees are of two kinds-a fee on capital and a fee on income. The fees on capital are taken in two instalments—an instalment of half taken at the beginning, and another instalment of half taken at the end of a trust—each instalment being calculated at the following rates :-

On the first £1,000, fifteen shillings per cent. On the excess of £1,000 to £20,000, five shil-

lings per cent. On the excess of £20,000 to £50,000, two shillings and six pence per cent.

On the excess of £50,000, one shilling and

person entitled, on any income in excess of £2,000 a year the fee is only ½ per cent. Where the income is paid through the Department then the fee is two per cent. up to £500 a year, and one per cent. on any excess of 2 year, and per cent. on income in excess of £2,000 a year. The fee on investment is per cent, the Public Trustee, out of this fee, paying the brokerage. There is power to vary these fees to meet the peculiar circumstances of special cases; but owing to the low range of the fees, and their mutual character the power of reduction is but seldom exercised, except perhaps in the case of large trusts.

The Department has been organised upon lines followed by commercial organisations. Forms are avoided wherever possible, the methods of the Office prescribing prompt attention to all matters within the day.

The particulars of any trust in which it is desired that the Public Trustee should act may be brought to his notice by letter or by personal interview, and upon his assent being obtained, his appointment should be effected in the ordinary way as in the case of private trustees. In the case of a Will about to be made, his appointment can be secured by the simple provision "I appoint the Public Trustee of England as the executor and trustee of this my Will."

One of the forms of trusteeship which would appeal to English people residing in India is a scheme known as a "Declaration of Trust." An official pamphlet explains that the Public An official pamphlet explains that the ruduic Trustee's services have been requested by people who, either because of professional or business preoccupation, or from want of experience in dealing with money matters, or from the disadvantages which might attach to Governmental, professional or business disabilities abroad, are not well placed to select and supervise their investments. It would annear that the services of the Denartment in three pences per cent. The Fee on income is one per cent. if, as is usual, the income be paid direct from its source to the taking up appointments in India; and, follow-

ing out their request for individual assistance, of investment, a large organisation has been this scheme of trust came to be devised, and has been found to commend itself to the circumstances of a very large circle of persons similarly disadvantaged. A Declaration of Trust is an inexpensive form of trusteeship by virtue of which the owner practically retains full control over his capital. The property is made over to the Public Trustee either in the form of money to be invested or specific securities transferred into his name; and thereupon the Public Trustee executes a short "declaration" setting out that he holds the money invested or the securities in trust for the transferor. The result of this is that income, as it accrues, is paid to the owner or to any beneficiary as he may direct. A wide field of investment is permissible, as the trust provides that the funds may be invested as the owner may from time to time direct. As the pamphlet sets out interest at the rate of at least 4 per cent. is to be looked for under the scheme from investments of a non-speculative character. It should be understood that this form of trustceship is not analogus to a bank deposit, where the return of the capital at par, given the solvency of the bank, is expected. Investments are selected with the greatest care in consustion with the owner, but it must be understood that the Public Trustee does not accept responsibility for any fluctuation of any of the investments chosen. The fees payable for this scheme of trusteeship, so far as the capital fees are concerned are held that the control of the scheme of trusteeship, so far as the capital fees are concerned are held that the control of the scheme o cerned, are half those payable in the case of an ordinary Settlement. The other fees are the same as the ordinary fees.

The appointment of the Public Trustee secures certain definite advantages inasmuch as he is by Act of Parliament a Corporation Sole: and thus it is said the Public Trustee never dies, so that the expense of appointment of other Trustees is permanently avoided. His integrity is guaranteed by the State, while the measure of his success would indicate that he is necessarily experienced and skilled in his dutes.

set up to give the best consideration not only to the selection of investments but to the duty of keeping them under frequent observation.

An Advisory Committee of men of recognised authority has, in the past year, been appointed by the Lord Chancellor to assist the Public Trustee by a quarterly review of the investments made. In the last Annual Report the Public Trustee speaks of having secured a return of £3-19-4 per cent. upon his trustee investments and a return of £4-10-1 per cent. upon his non-trustee investments.

The success of the Department would seem to show that there is a widespread public need in England for such an Office, and the energy and efficiency with which the Department has been constituted and conducted has been a great factor in commending it to the public. The State Guarantee is also doubtless a factor of great importance. A statutory rule provides that strict secrecy shall be observed in respect of all trusts administered in the Depart-

The administration is subject to an audit by the Controller and Auditor-General (the Government Auditor), while the internal orga-nisation has been built up upon the principle of a check and counter-check upon the administration.

An important section of the Statute gives the Public Trustee power to direct an audit and investigation of the condition and accounts of any trust.

Officials in India will doubtless tend to make an increasing use of the Department. As a Government Office, its stability will commend itself to them as a medium to safeguard their interests under Wills or Settlements which can be entirely relied upon, and free from the risks and expense attendant upon any other forms of trusteeship.

Further information upon details and copies of the official pamphlet, reports and rules, etc., can be obtained of the official agents to the Department, viz :—Messrs. King, Hamilton Close personal attention is given by the Co., Calcutta and in Bombay, Messrs. King, Public Trustee and his senior officers to the details of every trust; and as regards the work 8. King & Co., 65, Cornhill, London, E. C.

PROVING OF WILLS.

In British India if a person has been ap- | 2. person, it is always advisable to prove the will as early as possible. If the will is in a vernacular it has to be officially translated into English. A petition is then prepared praying for the grant of probate of the will. All the property left by the deceased has to be disclosed in a schedule to be annexed to the petition. The values of immoveable properties are usually assessed at 161 years purchase on the nett Municipal assessment. For estate under Rs. 10,000 the probate duty payable is 2 %; between Rs. 10,000 and Rs. 50,000 the duty payable is 2½%. Over 50,000 rupees the duty payable is 3%. In determining the amount of the value of the estate for the purposes of probate duty the following items are allowed to be deducted :-

1. Debts left by the deceased including mortgage encumbrances.

The amount of funeral expenses.

Property held by the deceased in trust and not beneficially or with general power to confer a beneficial interest.

The particulars of all these items have to be stated in a separate schedule. It is the practice of the High Court to send a copy of theses tice of the High Court to send a copy of theses schedules to the Revenue authorities and if the properties particularly immoveable properties have not been properly valued, the Revenue department require the petition to be amended accordingly. In certain case, the Court then requires citations to be published and served on such persons as the Court thinks are interested in the question of the grant of probate. If no objection is lodged by grant of probate. If no objection is lodged by any person so interested within 14 days after the publication or service of citation and if the will is shown to have been properly executed and the petitioner entitled to probate, probat, is ordered to be granted.

Freemasonry.

In an Institution so universal as Freemasonry the growth of that body in any particular part of the world is usually similar in all respects to the development in other parts. When Freemasonry was first established in Bombay and became strong enough to have its own Provincial Grand Lodge, the Grand Master of English Freemasons appointed James Todd, a Lieutenant of Police, as the first Provincial Grand Lodge the held until 1798 when the Provincial Grand Lodge seems to have gone into abeyance. A revival apparently set in in 1833 and Lodge Orlon in the West was founded at Poona. This was followed in 1844 by Lodge St. Andrews at Kamptee and in 1848 by Lodge St. Accorge in Bombay. In 1861 the Provincial Grand Lodge was revived and George Taylor was appointed P. G. M.

In 1870 a fresh warrant was issued by which the Provincial Grand Lodge of Bombay was altered to District Grand Lodge with James Gibbs as D. G. M. The next D. G. M. was Edward Tyrrell Leith who took charge in 1879 and he was followed in 1887 by H. R. H. the Duke of Connaught. The remainder of the District Grand Masters were H. E. Lord Sandhurst 1895-1899, H. E. Lord Northcote 1900-1902, Hon. Sir Lawrence Jenkins 1903-1907 and G. Owen W. Dunn 1908-1911. The present D. G. M. being W. Alban Haig-Brown who was appointed in 1912.

Under the skilful management of these illustrious men the District has grown until now there are under the District Grand Lodge of Bombay 39 Lodges with a total membership of over 2,000.

At the same time the Royal Arch and Mark degrees have also prospered and there are 16 Chapters with a total membership of over 600 and 11 Mark Lodges totalling over 300. One of the principal objects of Masonry being charity, it is interesting to know that from January 1882 to December 1912 the Lodges and Chapters subscribed over Rs. 62,700 to the Bombay Masonic Association and individual brethren over Rs. 22,800. Of these amounts practically Rs. 53,000 has been spent on schooling, etc., of children of deceased or indigent masons and it is hoped that sufficient funds will be forthcoming to form a fund, the interest on which will be sufficient to clothe, feed and school more of such unfortunate children than hitherto has been possible.

The Lodges in the District also have to pay every year a small fee for each member to the Board of Benevolence and these contributions have enabled that Board to disburse to widows, distressed masons and to famme relief funds, etc., a sum of nearly Rs. 48,000.

DISTRICT GRAND LODGE E. C. List of Principal Officers, 1914.

CALCUTTA.

R. W. District Grand Master, Right Hon. Baron Carmichael of Skirling, G.C.I.E., K.C.M.G. Deputy District Grand Master, Hon. Sir James

Meston, K.C.I.E.

District Senior Grand Warden, Sir R. N. Mookerjee, K.C.I.B.

District Junior Grand Warden, Darcy Lindsay.

District Grand Secretary, J. A. Dolton.

BOMBAY.

R. W. District Grand Master, W. A. Haig-Brown, J.P. Deputy District Grand Master, C. B. Robinson,

District Senior Warden, A. B. Napier.

District Junior Grand Warden, Dr. G. B. Prabhakar.

District Grand Secretary, J. F. Pennock, V.D. MADRAS.

R. W. District Grand Master, Hon. Mr. Ll. E, Buckley. Deputy District Grand Master, C. J. Higgs. District Senior Grand Warden, S. V. Ramaswami

District Junior Grand Warden, A. L. Honnay. District Grand Secretary, J. H. B. Brougham.

LAHORE.

R. W. District Grand Master, Sir H. P. Burt,

K.O.I.E. Deputy District Grand Master, Col. Pease, O.I.E. District Senior Grand Warden, Lt.-Col. R. Heard. District Junior Grand Warder, R. T. Clarke, I.C.S.

District Grand Secretary, D. Johnstone.
RANGOON.

District Grand Secretary, A. Biake.
GRAND LODGE OF ALL SCOTTISH
FREEMASONRY IN INDIA.

Installation—November (St. Andrew's Day).
COMMUNICATION—4th Saturday, in January,
April, July, and October.

PLACE OF MEETING—Freemason's Hall, Ravelin Street, Bombay.

Grand Master, The Hon'ble Mr. Justice F. C. O.

Beaman, 1.0.S. Grand Master Depute, H. P. Gibbs.

Substitute Grand Master, Pestonjee M. Kanga. Honorary Substitute Grand Master, T. Srinivasacharya.

Grand Superintendent of Northern India, The Hon'ble Col. Sir A. H. McMahon.

Grand Superintendent of Central India, Lt.-Col. F. W. P. Macdonald.

Grand Superintendent of Southern Levis C. H.

Grand Superintendent of Southern India, C. H. Richards.

Grand Superintendent of Eastern India, W. R.

Gourlay, I.O.S.

Senior Grand Warden, L. H. Savile.

Do. do do. Mohini M. Chatteriee.

Junior Grand Warden, Framji R. Surveyor.

Do. do. do. Moulvi Syed Ahmed,

G. Secretary—Arthur W. Wise,

11, Hummum Street Bombay.

BENGAL MASONIC ASSOCIATION

for

Educating Children of Indigent Freemasons, Registered under Act XXI of 1860. Instituted in 1869.

President.—The Right Hon'ble Baron Carmichael of Skirling, G.C.I.E., K.O.M.G., District Grand Master.

This Association is supported by capitation assessments from the Lodges in the District of Bengal and by voluntary contributions.

- 1. A donation of Rs. 500 made in one or more payments of not less than Rs. 50 each constitutes the donor a *Vice President* for *Life* with the privilege of five votes.
- 2. A donation of Rs. 100 constitutes the donor a Governor for Life, with the privilege of one vote and one vote for each additional donation of Rs. 100.
- 3. A subscription of Rs. 16 per annum entitles the subscriber to one vote for the year and an extra vote for every additional Rs. 16.
- 4. The conditions of the above are the same, whether the donor or subscriber be an individual or a Lodge, Chapter, or any other society.
- A general meeting of subscribers is held twice in the year, at Freemasons' Hall, Calcutta, 19. Park Street.
- 6. The general conduct of the affairs of the Association is entrusted to a Committee composed of the President, Treasurer, and Secretary, and of five Members to be elected at the February Half-yearly General Meeting.
- 7. The funds of the Association are devoted solely to the board and education of children.
- Children are admitted into the Association at the age of seven years and continue therein till they have attained the age of seventeen years.

This rule applies equally to children of both sexes without any distinction of religious denominations.

- 9. Elections take place at each General Meeting of Subscribers according to the number of vacancies and capabilities of the fund.
- 10. No child is eligible to be placed on the List of Candidates unless his father has been a Registered Mason for five years and Subscribing Member of some Lodge for at least three years of that period.

Subscriptions and donations are received by the District Grand Secretary and by the Secretary of the Association (Herbert E. Kent, Freemasons' Hall, 19 Park Street.)

> W. J. Bradshaw, Honorary Treasurer. Herbert E. Kent. Secretary.

BENGAL MASONIC FUND OF BENEVOLENCE.

GRAND COMMITTEE. President.

The Right Honourable Baron Carmichael of Skirling, G.O.I.E., K.O.M.G., District Grand

or Skirling, G.O.I.E., K.O.M.G., District Grand Master.

The Hon'ble Sir James Meston, K.O.I.E.,

Deputy District Grand Master.

- C. D. Stewart, P.D.G.W.
- S. A. Fairweather, Deputy Grand Treasurer.
- J. A. Dolton, Deputy Grand Secretary.
- H. E. Kent, Deputy A. Grand Secretary.
 SCOTTISH MASONIC FUND OF
 BENEVOLENCE

For the purpose of affording temporary relicf to indigent Freemasons and their families.

Grand Secretary-Arthur W. Wise,

- 11, Hamam Street, Fort, Bombay.
- THE SCOTTISH MASONIC BENEVOLENT ASSOCIATION IN INDIA.
- (a) For the purpose of granting Annuities to old and destitute Freemasons and their widows.
- (b) Granting allowances towards the maintenance and education of the children of deceased or indigent Freemasons.
- C. D. Furdonjee, Honorary Secretary and Treasurer.
- J. C. Mistre, Honorary Assistant Secretary 11, Hamam Street, Fort, Bombay.

THE SIND MASONIC BENEVOLENT ASSOCIATION.

Registered under Act XXI of 1800 (Established 1873.) Patron.

Right Wor. Bro. H. E. the Right Hon'ble Lord Lamington, G.O.M.G., G.O.I.E., Late Grand Master of A. S. F., India, and Governor of Bombay.

- J. Humphrey, President.
- Secretary.—Framroze E. Punthakey, Victoria Street, Predy Quarter, Karachi.

Indian Architecture.

I. ANCIENT.

The architecture of India has proceeded on lines of its own, and its monuments are unique among those of the nations of the world. An ancient civilization, a natural bent on the part of the people towards religious fervour of the contemplative rather than of the fanatical ort, combined with the richness of the country in the sterner building materials—these are a few of the factors that contributed to making it what it was, while a stirring history gave it both variety and glamour. Indian architecture is a subject which at the best has been studied only imperfectly, and a really comprehensive treatise on it has yet to be written. The subject is a vast and varied one, and it may be such a treatise never will be written in the form of one work at any rate. The spirit of Indian art is so foreign to the European of art culture that it is only one European in a hundred who can entirely understand it, while art criticism and analysis is a branch of study that the modern Indian has not as yet ventured upon to any appreciable extent. Hitherto the one, and with a few exceptions the only recognized authority on the subject has been Fergusson, whose compendious work is that which will find most ready acceptance by the general reader. But Fergusson attempts ed the nearly impossible task of covering the ground in one volume of moderate dimensions, and it is sometimes held that he was a man of too purely European a culture, albeit wide and eclectic, to admit of sufficient depth of insight in this particular direction. Fergusson's classification by races and religions is, however, the one that has been generally accepted hitherto. He asserts that there is no stone architecture in India of an earlier date than two and a half centuries before the Christian era, and that "India owes the introduction of the use of stone for architectural purposes, as she does that of Buddhism as a state religion, to the great Asoka, who regimed B.C. and it is sometimes held that he was a man religion, to the great Asoka, who reigned B.C. 272 to 236."

Buddhist Work.

Fergusson's first architectural period is then the Buddhist, of which the great tope at Sanchi with its famous Northern gateway is perhaps the most noted example. Then we have the Gandharan topes and monasteries. Perhaps the examples of Buddhist architecture of greatest interest and most ready access to the general student are to be found in the Chaitya halls or rock-cut caves of Karli, Ajunta, Nasik, Ellora and Kanheri. A point with relation to the Gandhara work may be alluded to in passing. This is the strong European tendency, variously recognized as Roman, Byzantine but most frequently as Greek, to be observed in the details. The foliage seen in the capitals of columns bears

The architecture of the Jains comes next in order. Of this rich and beautiful style the most noted examples are perhaps the Dilwara temples near Mount Abu, and the unique "Tower of Victory" at Chittore.

Other Hindu Styles.

The Dravidian style is the generic title usually applied to the characteristic work of the Madras Presidency and the South of India. It is seen in many rock-cut temples as at Ellora, where the remarkable "Kylas" is an instance of a temple cut out of the solid rock, complete, not only with respect to its interior (as in the case of mere caves) but also as to its exterior. It is, as it were, a life-size model of a complete building or group of buildings, several hundred feet in length, not built, but sculptured in solid stone, an undertaking of vast and, to our modern ideas, unprofitable industry. The Pagoda of Tanjore, the temples at Seringham, Chidambaram, Vellore, Vijayanagar, &c., and the palaces at Madura and Tanjore are among the book temples of the serious constitution of the constitution of th the best known examples of the style.

The writer finds some difficulty in following The writer mas some quantities in another fergusson's two next divisions of classification, the "Chalukyan" of South-central India, and the "Northern or Indo-Aryan style. The differences and the similarities are apparently so intermixed and confusing that he is fain to fall back on the broad generic title of "Hindu"—however unscientific he may there-Hindu —however unscientific he may thereby stand confessed. Amongst a vast number of Hindu temples the following may be mentioned as particularly worthy of study;—those at Mukteswara and Bhuvaneswar in Orissa, at Khajuraho, Bindrabun, Udaipur, Benares, Gwalior, &c. The palace of the Hindu Raja Man Singh at Gwalior is one of the most beautiful architectural examples in India. So also ful architectural examples in India. So also are the palaces of Amber, Datiya, Urcha, Dig and Udaipur.

Indo-Saracenic.

Among all the periods and styles in India the characteristics of none are more easily recognizable than those of what is generally called the "Indo-Saracenic" which developed after the Mahomedan conquest. Under the new influences now brought to bear on it the architecture of India took on a fresh lease on activity and underwent remarkable modifi-cations. The dome, not entirely an unknown feature hitherto, became a special object of development, while the arch, at no time a favourite constructional form of the Hindu builders, was now forced on their attention by European tendency, variously recognized as Roman, Byzantine but most frequently as the Greek, to be observed in the details. The foliage seen in the capitals of columns bears the strong resemblance to the Greek acanthus, while the sculptures have a distinct trace of Greek influence, particularly in the treatment greep of organized congregational acts of worship—Greek influence, particularly in the treatment gree opportunities for broad and spaclous fordmany. From this it has been a fairly common assumption amongst some authoristic that Indian art owed much of its best to lest a tabu on the use of sculptured represent-thropean influence, an assumption that is ations of animate objects in the adornment European influence, an assumption that is ations of animate objects in the adomment strenuously combated by others.

of the buildings, and led to the development of other decorative forms. Great ingenuity came to be displayed in the use of pattern and of geometrical and foliated ornament. This Moslem trait further turned the attention of the builders to a greater extent than before to proportion and mass as means of giving beauty, mere richness of sculptured surface and the aesthetic and symbolic interest of detail being no longer to be depended on to the same degree.

The art was thus the gainer by the new conditions. It gained in power and variety much as "Classic" architecture gained under the Romans. But it equally lost something too. The Indo-Saracenic is apt to appear cold and hard. The writer was impressed by this on his first view of the Gwalior palace already mentioned. Though a Hindu building that palace has yet much of what might be called the more sophisticated quality of the Indo-Saracenic work as well as some similarity of detail. It has, being Hindu, a certain amount of sculptured ornament of animated forms, and the general effect of roundness, richness and interest thereby imparted seemed eloquent in suggestion as to what is lacking in so many of the Mahometan buildings.

Foreign Influence.

There would appear to be a conflict between archæologists as to the extent of the effect on Indian art produced by foreign influence under the Mahometans. The extreme view on the one hand is to regard all the best of the at as having been due to foreign importation. The Gandharan sculptures with their Greek tendency, the development of new forms and modes of treatment to which allusion has been made, the similarities to be found between the Mahometan buildings of India and those of North Africa and Europe, the introduction of the minaret and, above all, the historical evidences that exist of the presence in India of Europeans during Mogul times, are cited in support of the theory. On the other hand those of the opposite school hold the foregoing view to be que to the prevailing European preconception that all light and leading must come by way of Greece. To them the Gandharan sculpture, instead of being the best, is the worst in India even because of its Greek tincture. They find in the truly indigenous work beauties and significances not to be seen in the Graeco-Bactrian sculptures, and point to those of Borobuder in Java, the work of Buddhist colonists from India, wonderfully preserved by reason of an immunity from destructive influences given by the insular position, as shewing the best examples of the art extant. It is probable that a just estimate of the merits of the controversy, with respect to sculpture ta any rate, cannot be formed till time has obliterated some of the differences of taste that exist between East and West.

To the adherents of the newer school the undisputed similarities between Indo-Mahometan and Hindu buildings outweigh those between Indian and Western Mahometan work, especially in the light of the dis-similarities between the latter. They admit the large produced by the advent of Islam, In this we recognize among other influences

but contend that the art, though modified, yet remained in its essence what it had always been, indigenous Indian. The minaret, the dome, the arch, they contended, though developed under the Moslem influence, were yet, so far as their detailed treatment and craftsmanship are concerned, rendered in a manner distinctively Indian. Fergusson is usually regarded as the leader of the former school, while the latter and comparatively recent school has at present found an eager champion in Mr. E. B. Havell, whose works, on the subject are recommended for study side by side with those of the former writer. Mr. Havell practically discards Fergusson's racial method of classification into styles in favour of a chronological review of what he regards to a greater extent then did his famous precursor as being one continuous homogeneous Indian mode of architectural expression, though subject to variations from the influences brought to bear upon it and from the varied purposes to which it was applied.

Agra and Delhi.

Agra and Delhi may be regarded as the principal centres of the Indo-Saracenic style—the former for the renowned Taj Mahal, for Akbar's deserted capital of Fatehpur Sikri, his tomb at Secundra, the Moti Musild and palace buildings at the Agra fort. At Delhi we have the great Jumma Musild, the Fort, the tombs of Humayon, Sufdar Jung, & Gand the unique Quib Minar. Two other great centres may be mentioned, because in each there appeared certain strongly marked individualities that differentiated the varieties of the style there found from the variety seen at Delhi and Agra, as well as that of one from that of the other. These are Ahmedabad in Gujarat and Bijapur on the Dekhan, both in the Bombay Presidency. At Ahmedabad with its neighbours Sirkhej and Champanithere seems to be less of a departure from the older Hindu forms, a tendency to adhere to the lintel and bracket rather than to have recourse to the arch, while the dome, though constantly employed, was there never developed to its logical structural conclusion. The Ahmedabad work is probably most famous for the extraordinary beauty of its stone "jall"—or pierced lattice-work, as in the palm tree windows of the Sidi Sayyid Musjid.

Bijapur.

The characteristics of the Bijapur variety of the style are equally striking. They are perhaps more distinctively Mahometan than those of the Ahmedabad buildings in that here the dome is developed to a remarkable degree, indeed the tomb of Mahmud—the well-known "Gol Gumbaz"—is cited as shewing the greatest space of floor in any building in the world roofed by a single dome, not even excepting the Pantheon. The lintel also was here practically discarded in favour of the arch. The Bijapur style shews a bold masculine quality and a largeness of structural conception that is unequalled elsewhere in India, though in richness and delicacy it does not attempt to rival the work of the further North In this we recognize among other influences

that of the prevailing material, the hard uncompromising Dekhan basalt. In a similar and white sandstones, combined with access manner the characteristics of the Ahmedabad to marble and other more costly materials work with its greater richness of ornamenta-tion are bound up with the nature of the Gujarat easily recognizable characteristics of the archi-freestone, while at Delhi and Agra the freer tecture of these centres.

II. MODERN.

The modern architectural work of India a building it was always an engineer who built divides itself sharply into two classes. There it, is still indicated by the architect in some is first that of the indigenous Indian "Masterbuilder" to be found chiefly in the Native "architect and engineer." ta first that of the indigenous indian insister-builder" to be found chiefly in the Native States, particularly those in Rajputana. Second there is that of British India, or of all those parts of the peninsula wherever Western ideas and methods have most strongly spread their influence, chiefly, in the case of architecture, through the medium of the Department of Public Works. The work of that department has been much animadverted department has been much animadverted upon as being all that building should not be, but, considering it has been produced by men to whom it was admittedly not the metier, and who were necessarily contending with lack of expert training on the one hand and with departmental methods on the other, it must be conceded that it can shew many notable buildings. Of recent years there has been a tend-ency on the part of professional architects to turn their attention to India, and a few of these have even been drafted into the service of Government as the result of a policy ini-tiated in Lord Curzon's Viceroyalty. In time, therefore, and with the growth of the influence of these men, such of the reproach against the building of the British in India as was just and was not merely thoughtlessly maintained and was not metaly substituted as a corollary to the popular jape against every-thing official, may gradually be removed. If this is so as to Government work progress should this is so as to Government work progress should be even more assured in the freer atmosphere outside of official life. Already in certain of the greater cities, where the trained modern architect has eatablished himself, in private practice, there are signs that his influence is beginning to be feit. He still complains, however, that the general public of India needs much educating up to a recognition of his value, both in a pecuniary sense and otherwise. It is also to be observed that the survival of a relio of the popular idea of the time before his advent, to the effect that though an architect might occasionally "design"

To the work of the indigenous "masterto the work of the indigenous master, public attention has recently been drawn with some prominence, and the suggestion is being pressed that efforts should be directed towards devising means for the preservation of what is pointed out to be a remarkable survival—one of the few in the world—of "living art," but which is threatworld—of "living art," but which is threat-ened with extinction by reason of the spread of Western ideas. The matter has assumed the form of a controversy centring round the question of that much discussed project the building of the Government of India's new capital at Delhi. It is urged that this project should be utilized to give an impetus to Indian attention to Western art. Those who plead rather than to Western art. Those who plead for the preservation of the art appear for the most part to be adherents of the "indigenous most part to be adherents of the "indigenous Indian" school of archælogists already men-Indian" school of archelogists already men-tioned. They have mustered a considerable following not only amongst the artistic public of England and India but even within the Government services. The controversy is, however, too strictly one of the moment, and too purely technical, for its merits to be judged by the general reader or discussed here. Its claim on our attention lies in the fact that it claim on our attention lies in the fact that it affords an added interest for the tourist, who may see good examples of the "master-builder's" work in nearly every native town and bazaar in India. The town of Lashkar in Gwalior State may be cited as peculiarly rich Gwalior State may be cited as peculiarly rich in instances of picturesque modern Indian street architecture, while at Jaipur, Udaipur, Benares, &c., this class of work may be studied in many different forms both civil and religious, and the extent to which the alleged "unbroken tradition from the past" exists may be gauged by the traveller who is architect enough for the purpose.

Archæology.

The archeologica treasures of India are at ambulation, and the whole is enclosed by a masvaried as they are nume ous. Those of the sive stone railing with lofty gates facing the pre-Muhammadan period may roughly be divid-cardinal points. The gates are essentially ed into (1) architectural and sculptural monuments and (2) inscriptions. No building or sculpture in India with any pretentions to be considered an example of architecture or art can be ascribed to a time earlier than that of Asoka (circa 250 B.C.). In the pre-Asoka ar-chitecture of India, as in that of Burma or China at the present day, wood was solely or almost solely employed. Even at the close of the 4th century, B.C. Megasthenes, the Greek Ambassador at the court of Chandragupta, grandfather of Asoka, describes Pataliputra, the capital of the Indian monarch, as "surrounded for the court of the following factor of the following factor of the following factor of the following factor of the following factor of the following factor of the following factor of the following factor of the following factor of the following factor of the following factor of the following factor of the following factor of the following factor of the following factor of the following factor of the following factor of the following factor of the factor of th by a wooden wall pierced with loop-holes for the discharge of arrows." If the capital itself was thus defended, we can easily infer that the architecture of the period was wooden. And long long after stone was introduced the lithic styles continued to be influenced by, or copied from, the wooden.

Monumental Pillars.—The first class of works that we have to notice are the monumental pillars, known as lats. The oldest are the monolithic columns of Asoka, nearly thirty in number, of which ten bear his inscriptions. Of these the Lauriya-Nandangarh column in the Champaran District, Tirhut, is practically uninjured. The capital of each column, like the shaft, was monolithic, and comprised three members, viz., a Persepolitan bell, abacus, and crowning sculpture in the round. By far the best capital of Asoka's time was that exhumed at Sarnath near Benares. The four lions standing back to back on the abacus are carved with extraordinary precision and ac-curacy. Of the post-Asokan period one pil-lar (B.C. 150) stands to the north-east of Besnagar in the Gwalior State, another in front of the cave of Karli (A.D. 70), and a third at Eran in Central Provinces belonging to the 5th Century, A. D. All these are of stone; but there is one of iron also. It is near the Qutb Minar at Delhi, and an inscription on it speaks of its having been erected by a king called Chandra, identified with Chandragupta II. (A.D. 375-413) of the Gupta dynasty. It is wonderful to first the Hindus at that age forging a bar of iron larger than any that have been forged even in Europe to a very late date, and not frequently even now." Pillars of later style are found all over the country, especially in the Madras Presidency. No less than twenty exist in the South Kanara District. A particularly elegant example faces a Jaina temple at Mudabidri, not far from Managalore.

Topes.—Stupas, known as dagabas in Ceylon and commonly called Topes in North India, were constructed either for the safe custody of relics hidden in a chamber often near the base or to mark the scene of notable events in Buddhist or Jaina legends. Though we know that the ancient Jainas built stupas, no specimen of Jaina stupas is now extant. Of those belonging to the Buddhists, the great Tope of Sanchi in Bhopal, is the most intact and entire of its class. It consists of a low circular drum supporting a hemispherical dome of less diameter. Round the drum is an open passage for circum-

cardinal points. The gates are essentially wooden in character, and are carved, inside and out, with elaborate sculptures. The stupa itself probably belonged to the time of Asoka, but as Dr. Marshall's recent explorations have conclusively shown, the railing and the gate-ways were at least 150 and 200 years later, respectively. Other famous Buddhist stupes that have been found are those of Bharhut between Allahabad and Jubbulpore, Amravati in the Madras Presidency, and Piprahwa on the Ne-palese frontier. The tope proper at Bharhut has entirely disappeared, having been utilised for building villages, and what remained of the rail has been removed to the Calcutta Museum. The bas-reliefs on this rail which contain short inscriptions and thus enable one to identify the scenes sculptured with the Jatakas or Birth Stories of Buddha give it a unique value. The stupa at Amravati also no longer exists, and portions of its rail, which is unsurpassed in point of claboration and artistic merit, are now in the British and Madras Museums. The stupa at Piprahwa was opened by Mr. W. C. Peppe in 1898, and a steatite or soap-stone reliquary with an inscription on it was unearthed. The inscription, according to many scholars, speaks of the relics being of Buddha and coshrined by his kinsmen, the Sakyas. And we have thus here one of the stupas that were erected over the ashes of Buddha immediately after his demise.

Caves .- Of the rock excavations which are one of the wonders of India, nine-tenths belong to Western India. The most important groups to Western India. The most important groups of caves are situated in Binja Bedsa, Rarif, Kanheri, Junnar, and Nasik in the Bombay Presidency, Ellora and Ajanta in Nizam's Dominions, Barabar 16 miles north of Gaya, and Udayagiri and Khandagiri 20 miles from Cuttack in Orissa. The caves belong to the three principal sects into which ancient India was divided, viz., the Buddhists, Hindus and Jainas. The earliest caves so far discovered are those of Barabar which were excavated by Asoka and his grandson Dasaratha, and dedicated to Ajivikas, a naked sect founded by Makkhali Gosala. This refutes the theory that cave archi-tecture was of Buddhist origin. The next ear-liest caves are those of Bhaja, Pitaikhora and cave No. 9 at Ajanta and No. 19 at Nasik. They have been assigned to 200 B.C. by Fergusson and Dr. Burgeas. But there is good reason to and Dr. Burgess. But there is good reason to suppose from Dr. Marshall's recent researches and from epigraphic considerations that they are considerably more modern. The Buddhist caves are of two types—the chaityas or chapel caves and viharas or monasteries for the residence of monks. The first are with vaulted roofs and horse-shoe shaped windows over the entrance and have interiors consisting of a nave and side nisles with a small stupa at the inner circular end. They are thus remarkably similar to Christian basilicas. The second class consist of a hall surrounded by a number of cells. In the later viharas there was a sanctum in the centre of the

ples that at Elephanta near Bombay is perhaps; the most frequented. It is dedicated to Siva and is not earlier than the 7th century A.D. But by far the most renowned cave-temple of the Hindus is that known as Kailasa at Ellora. It is on the model of a complete structural temple but carved out of solid rock. It also is dedicated to Siva and was excavated by the Rashtrakuta king, Krishna I, (A. D. 768), who may still be seen in the paintings in the ceilings of the upper porch of the main shrine. Of the Jaina caves the earliest are at Khandgri and Udayagiri; those of the mediæval type, in Indra Sabha at Ellora; and those of the latest period, at Ankai in Nasik. The ceilings of many of these caves were once adorned with fresco paintings. Perhaps, the best preserved among these are those at Ajanta, which were executed at various periods between 350-650 A.D. and have elicited high praise as works of art. Copies were first made by Major Gill, but most of them varieties have a second and the control of them. Copies were inst made by major oin, but most of them perished by fire at the Crystal Palace in 1866. The lost ones were again copied by John Griffiths of the Arts School, Bombay, half of whose work was similarly destroyed by a fire at South Kensington. They were last copied by Mrs. Herringham in 1911.

Gandhara Monuments.—On the north-west frontier of India, anciently known as Gandhara, are found a class of remains, ruined monasteries and buried stupas, among which we notice for the first time representations of Buddha and the Buddhist pantheon. The free use of Corinthian capitals, friezes of nude Erotes bearing a long garland, winged Atlantes without number, and a host of individual motifs clearly establish the a host of individual motifs ctearly establish the influence of Hellenistic art. The mound at Peshawar, locally known as Saha-ji-ke-Dherl, which was explored in 1909, brought to light several interesting sculptures of this school together with a reliquary casket, the most remarkable bronze object of the Gandhara period. The inscription on the casket left no doubt as to the mound being the suppa raised over the bones of Buddha by the Indo-Scyover the bones of Buddha by the Indo-Scythian king Kanishka. They were presented by Lord Minto's Government to the Buddhists of Burma and are now enshrined at Mandalay. To about the same age belong the stupas at Manikyala in the Punjab opened by Ranjit Singh's French Generals, Ventura and Court, in 1830. Some of them contained coins of Wanishka Kanishka.

Structural Temples.-Of this class we have one of the earliest examples at Sanchi, and another at Tigowa in the Central Provinces. In South India we have two more examples, viz., Lad Khan and Durga temples at Aihole in Bijapur. All these belong to the early Gupta period and cannot be later than 500 A.D. The only common characteristic is flat roofs without only common control of the control o more pronounced from the 7th century onwards, more pronounced from the ten century onwards. In the Indo-Aryan style, the most prominent lines tend to the perpendicular, and in the Dravidian to the horizontal. The salient feature of the former again is the curvilinear steeple, and of the latter, the pyramidal tower. The most notable examples of the first land as the found above of the transless of the first

paneswar in Orissa, Khajarah in Bundelkhand, Osia in Jodhpur, and Dilwara on Mount Abu. Osia in Jodhpur, and Dilwars on Mount Abu. One of the best known groups in the Dravidian style is that of the Mamallapuram Raths, of seven Pagodas', on the seashore to the south of Madras. They are each hewn out of a block of granite, and are rather models of temples than raths. They are the earliest examples of typical Dravidian architecture, and belong to the 7th century. To the same age has to be assigned the temple of Kailasanath at Conjecture and to the following actives care of the veram, and to the following century some of the temples at Aihole and Pattadkal of the Bijapur District, Bombay Presidency, and the mono-lithic temple of Kailasa at Ellora, referred to above. Of the later Dravidian style the great temple at Tanjore and the Srirangam temple of Trichinopoly are the best examples.

Intermediate between these two main styles comes the architecture of the Deccan, called Chalukyan by Fergusson. In this style the plan becomes polygonal and star-shaped instead of quadrangular; and the high-storeyed spire is converted into a low pyramid in which the horizontal treatment of the Dravidian is combined with the perpendicular of the Indo-Aryan. Some fine examples of this type exist, at Dambal, Ratthali, Tilliwalli and Hangal in Dharwar, Bombay Presidency, and at Ittagi and Warangal in Nizam's Dominions. But it is in Mysore among the temples at Hallebid. Belur, and Somnathpur that the style is found in its full perfection.

Inscriptions.-We now come to inscriptions, of which numbers have been brought to light in India. They have been engraved on varieties of materials, but principally on stone and copper. The englist of these are found incised in two distinct kinds of alphabet, known as Brahmi and Kharoshthi. The Brahmi was read from left to right, and from it have been evolved all the modern vernacular scripts of India. The Kharoshthi was written from right to lett, and was a modified form of an ancient Aramaic alphabet introduced into the Punjab during the period of the Persian domination in the 5th century, B.C. It was prevalent up to the 4th century, A.D., and was supplanted by the Brahmi. The earliest dateable inscriptions are the celebrated edicts of Asoka. One group of these has been engraved on rocks, and another on pillars. They have been found from Shahbazgarhi 40 miles north-east of Peshawar to Nigliva in the Nepal Tarai, from Gimar in Kathlawar to Dhauli in Orlssa, from Kalsi in the Lower Himalayas to Siddapur in Mysore, showing by the way the vast extent of territory held ing by the way the vast extent of territory held by him. The reference in his Rock Edicts to the five contemporary Greek Princes, Antiochus II. of Syria, Ptolemy Philadelphus, and so forth is exceedingly interesting, and fixes B.C. 269 as the date of his coronation. His Rummindei pillar inscription, again, discovered in Nepal Tarai, now settles, beyond all doubt, the birth-place of Buddha which was for long disputed. Another noteworthy record is the disputed. Another noteworthy record is the inscription of the Besnagar pillar. The pillar had been known for a long time, but Dr. Marshall was the first to notice the inscription on it. It records the erection of this column, which was a Garuda pillar, in honour of the god Vasudeva by one Heliodoros, son of Dion, who is describkind are to be found among the temples of Bhu-led as an envoy of king Antialkidas of Taxila.

Heliodorous is herein called a Bhagavata, which shows that though a Greek he had become a Hindu and presumably a Vaishnava. Another inscription worth noticing and especially in this connection is that of Cave No. 10 at Nasik. The donor of this cave, Ushavadata, who calls himself a Saka and was thus an Indo-Scythian, is therein spoken of as having granted three hundred thousand kine and sixteen villages to gods and Brahmans and as having annually fed one hundred thousand Brahmans. Here is another instance of a foreigner having embraced Hinduism. Thus for the political, social, economical and religious history of India at the different periods the inscriptions are invaluable records, and are the only light but for which we are forlorn and blind.

Saracenic Architecture.—This begins in India with the 13th century after the per-manent occupation of the Muhammadans. Their first mosques were constructed of the materials of Hindu and Jaina temples, and sometimes with comparatively slight alterations. The mosque called Adhai-din-ka-jhompra at Ajmer and that near the Qutb Minar are instances of this kind. The Muhammadan architecture of India varied at different periods and under the various dynasties, imperial and local. The early Pathan architecture of Delhi was massive and at the same time was characterised by elaborate richness of ornamentation. The Qutb Minar and tombs of Altamsh and Ala-ud-din Khilji are typical examples. Of the Sharqi style we have three mosques in Jaunpur with several tombs. At Mandu in the Dhar State, a savelat Collins and Market and Market and Savelat Collins and Savelate architecture sprung up, and we have here the Jami Masjid, Hoshang's tomb, Jahaz Mahall and Hindola Mahall as the most notable instances of the secular and ecclesiastical styles of the Malwa Pathans. The Muhammadans of Bengal again developed their own style, and Pandua, Malda, and Gaur teem with the ruins of the buildings of this type, the important of which are the Adina Masjid of Sikandar Shah, the Elakhi mosque, Kadam Rasul Masjid, and so forth. The Bahmani dynasty of Gulbarga and Bidar were also great builders, and adorned their capitals with important buildings. The most striking of these is the great mosque of Gulbarga, which differs from all mosques in India in having the whole central area covered over so that what in others would be an open court is here roofed by sixty-three small domes. "Of the various forms which the Saracenic architecture assumed," says Fergusson, "that of Ahmedabad may probably be considered to be the most elegant." It is notable for its carved stone work; and the work of the perforated stone windows in Sidi Sayyid's mosque, the carved niches of the minars of many other mosques, the sculptured Minabs and domed and panelled roofs is so exquisite that it will rival anything of the sort executed elsewhere at any period. No other style is so essentially Hindu. In complete contrast with this was the form of architecture

were a great building race. Their style first began to evolve itself during the reign of Akbar in a combination of Hindu and Muhammadan features. Noteworthy among the emperor's buildings are the tomb of Humayun, and the palaces at Fatehpur Sikri and Agra. Of Jahangir's time his mosque at Lahore and the tomb of Itimad-ud-daula are the most typical structures. "The force and originality of the style gave way under Shah Jahan to a delicate elegance and refinement of detail." And it was during his reign that the most splendid o the Moghul tombs, the Taj Mahal at Agra, the tomb of his wife Mumtaz Mahall, was con-structed. The Moti Masjid in Agra Fort is another surpassingly pure and elegant monument of his time.

Archæological Department.—As archæological monuments of India must attract the attention of all intelligent visitors, they would naturally feel desirous to know something of the Archeological Department. The work of this Department is primarily two-fold, con-servation, and research and exploration. None but spasmodic efforts appear to have been made by Government in these directions till 1870 when they established the Archæological Survey of India and entrusted it to General (afterwards Sir) Alexander Cunningham, who was also the first Director-General of Archmology. The next advance was the initiation of the local Surveys in Bombay and Madras three years after. The work of these Surveys, however, was restricted to antiquarian research and description of monuments, and the task of conserving old buildings was left to the fitful efforts of the local Governments, often without expert guidance or control. It was only in 1878 that the Government of India under Lord Lytton awoke to this deplorable condition, and sanctioned a sum of 37 lakhs to the repair of monuments in United Provinces, and soon after appointed a conservator, Major Cole, who did useful work for three years. Then a reaction set in, and his post and that of the Director-General were abolished. The first systematic step towards recognising official responsibility in conservation matters was taken by Lord Curzon's Government, who established the seven Archæological Circles that now obtain, placed them on a permanent footing, and united them together under the control of a Director-General, provision being also made for subsidising local Governments out of imperial funds, when necessary. The Ancient Monuments Preservation Act was passed for the protection of historic monuments and relics especially in private possession and also for State control over the excavation of ancient sites and traffic in antiquities. Under the direction of Dr. J. H. Marshall, O.I.E., Director-General of Archeology, a comprehensive and systematic campaign of repair has been prosecuted, and the result of it is manifest in the present altered conditions of old buildings. One has only to see for example the Moghul buildings at Agra, Delhi, Lahore and Ajmer, in order to be conviried bout the work of careful reconstructrast with this was the form of architecture at Agra, Delni, Lanore and Ajmer, in complete employed by the Addi Shahi dynasty of Bijaber. There is here relatively little trace of thindu torms or details. The principal buildings now left at Bijapur are the Jami Masjid, Gagan Mahali, Mihtar Mahali, Ibrahim Rauza and mosque and the Gol Gumbaz. Like their here rescue of many of these buildings predecessors, the Pathans of Delhi, the Moghuls from profane and sacrilegious uses. It is wellbe convinced how the work of careful reconstruc-

known that the superb Pearl Mosque of Jahangir in the Lahore Fort contained a Government treasury, and the Sleeping Hail of Shah Jahan served as a Church for the British troops. At Bijapur two mosques have been recovered, one of which was used as Dak Bungalow and the other as Post Office. The local Kutcherry has now been expelled from the lovely musified of Sidi Sayyid at Ahmedabad. The Cave temples at been expelled from the lovely musjid of Sidi died. Saheth-Maheth the ancient Sravasti, Sayvid at Ahmedabad. The Cave temples at Trichinopoly are no longer godowns. Nor has

research work been in any way neglected under the new order of things. A unique feature of it for the first time introduced under the guidance and advice of Dr. Marshall has been the scientific excavation of buried sites, such as Sarnath where Buddha preached his first sermon, Kasia or Kusinara where he

Indian Art.

Within the last few years there has been a in it at present; but it may be said in passing ost interesting and promising, though somethat narrowly confined, revival in Indian Art. which produced the sculptures of Ellora and most interesting and promising, though somewhat narrowly confined, revival in Indian Art. For this, it is to be feared, scant credit is due to British educational policy in India, though the impetus has come mainly from a few British and other European enthusiasts who have reminded cultured India of the value of its ancient artistic heritage and indicated the possibilities of revival. Each year between 6,000 and 7,000 students pass the various examinations of the four Schools of Arts maintained by the State, but until very recently those institutions have been in some respects seriously mistaken in ideal and method. Viewing their work over half a century it may be said broadly that they have paid very inade-quate attention to the traditions of Indian Art, and that in consciously or unconsciously encouraging Western influences, which the Indian student could not thoroughly assimilate, they have not even been particular to choose good examples of Western art. Nor have the Schools of Arts been altogether free from the taint of commercialism; indeed, for some years one of them was in effect some-thing between an industrial workshop and an emporium for selling Indian curiosities nicely designed to meet the taste of tourists. In justice to the Schools it should be added that they have seldom been able to attract into them members of the hereditary craftsmen class. The material they have had to work with has been unpromising. Further, even for students who might attain to conspicuous skill, there have been few openings in after-life. All this is now changing, but the improvement began only some fifteen years ago, and it is mainly due to agencies more or less independent of the schools.

A Notable Revival.

The revival which has already produced one notable artist, Mr. Abanindranath Tagore, is the direct outcome of the study of the work of the best periods of Indian art. In order to comprehend it, it is therefore necessary to glance back over the history of art in India.

It was in the reign of Jehangir (1605-1628 that Mogul painting reached its highest level, concerned, for there is no perceptible revival and it is to that period that he Indian painters glance back over the history of art in India. With sculpture we are here not particularly

Elephanta, that in its finest examples this art was genuinely Indian, for the Gandhara sculp-tures, which show strong Greek influence, are inferior enough to make the contention that India owed much to Greece absurd, and that perhaps the finest "Indian" sculpture is to be found in Java, where at Borobudur, in the eighth and ninth centuries A.D. the descendants of Indian emigrants wrought a long series of mighty masterpieces. As regards paintings, we begin with those at Ajanta, produced at intervals between the first century before Christ and perhaps the seventh century of the Christian era. A typical example, in which a mother and her child supplicating Buddha are presented not only with much technical skill but with tenderness of feeling, may be found reproduced in Griffith's book on Ajanta and in Mr. Havell's "Indian Sculp-ture and Painting." These paintings are true frescoes, differing in method from the Italian in little but the use of mechanical as well as chemical combination of colours.

Practically all the work of this time has perished, and of the secular art of the period before the Moguls there is scant vestige. the Moguis for the first time painting becomes frankly secular. Whereas a Hindu philosopher had laid it down that it was iniquitous to represent natural objects when the divinities could be made the artist's subjects, the Telamic delike of Vichter and the conducted Islamic dislike of idolatry naturally conduced to the development of secular painting. These Mogul artists were Persians or others, more or less under the influence of the Persian school. Akbar patronised them liberally, and Abul Fazl, his histriographer, records the triumphs of Mir Sayvid Ali, a Persian, and Daswanth, a Hindu of humble origin, whose life, darkened by insanity, ended by suicide. The work of these and their follows is articled for minute. of these and their fellows is notable for minute finish, but it is stiff, and in colour often crude.

Moghul Painting.

of to-day and to-morrow must look for the best models for all work of theirs which is not inspired by Hindu philosophy or religion. The inspired by Hindu philosophy or religion. The Emperor was himself a consummate connoisseur, capable, it is recorded, of discriminating unerringly between the work of the artists of the same school. Sherif Khan, Mansur and Abdul Hassan, the chief artists of his time, were by him highly honoured; the last, in fact, owed his training as well as distinctions and rewards to the Emperor. These and several other painters of the period excelled in portrait-miniatures, of which happily, in consequence of the practice of rolling up benitings! other painters of the period extense in por-quence of the practice of rolling up paintings like MSS. and only occasionally exhibiting them to view, we have many examples in good condition. These artists are markedly su-perior to their predecessors influency and grace of line and show that they benefited by the closer observation of natural facts incul-cated from about 1600 onwards. Many of the outline drawings, done with lamp black over a preliminary sketch faintly carried out with a fine brush dipped in Indian red, are of exquisite quality. It is noteworthy that, though in some cases landscape is well ren-dered as a mere background, there are no ex-amples in Indian painting of the classic age of pure landscape: here the Indian painter of to-day has to develop an ideal with hardly any suggestion from predecessors. The purito-day has to develop an Ideal with hardly any suggestion from predecessors. The puri-tanical and bigoted Aurangzeb was naturally hostile to art, and by the middle of the eighteenth century all the glory had departed from Indian painting, though a measure of skill in traditional methods long survived and for a time was not unappreciated by Englishmen in India. By the early years of the nineteenthicentury, however, Indian painting had virtually ceased to exist. At length a painter arose, to be much admired by the worst judges among those Indians whose Western education had made them indifferent to Indigenous art without giving them any real interest in had made them indirerent to indigenous are without giving them any real interest in European art. This man, Ravi Varma, depicted Indian legends as if he were painting figures in amateur tableaux; of Indian art traditions there is not a trace in his work, which is then the large transfer and the second of the there is not a trace in his work, which is tractical, sentimental and of poor quality technically. There have been others who have more successfully assimilated something of Western ideas of art, but their work is without interest, except in so far as it exhibits a deplorable submissiveness to second-rate Western teaching. The movement of to-day which arouses high expectations is that in which Mr. Abanindranath Tagore is the leader. This artist, member of a Bengali family, noted for culture and cousin of the poet Rabindranath Tagore, has made a close and most profitable ragore, nas made a close and most promusure artist has a vistudy of the work of the Mogul and other losophical ma painters of India, but he has seen in the exjects as are m amples of their work not something to be slavishly copied but certain principles which he applies freshly, in his own way. He has occasion for a imagination, a sense of composition, a delicate that ancient sense of colour and much, though as yet per-ithe material.

haps not quite secure, command of the technical resources of his art. Above all, he is sincere; nowhere is there in his work any deliberate exploitation of the fact that he is an Eastern artist who must at all costs exhibit Nationalism in his painting. One of his pictures representing the spirits of the air, is justly famous, and his admirable illustrations to Omar Khayyam, issued by the Studio, have found appreciation in England as well as in India. Among those more or less associated with this painter, who as Vice-Principal of the Calcutta School of Art, is exercising a strong influence within narrow limits, may be mentioned Mr. Surendranath Ganguly and Mr. Nanda Lall Bose, the latter of whom has a vein of true poetic feeling and both of whom work in intelligent but not abject obedience of the old tradition of Indian painting. If there is no fourth name at present to put besides those mentioned; there is every reason to believe there soon will be several.

odern Interest.

At the present time there is a marked development of interest among educated Indians in arts indigenous to their country, but it must be recognised that there is little real knowledge and taste in the public to which the Indian artist of to-day has to address himself. Work is esteemed rather as proof of Indian capacity than for its strict artistic merits. Among those Indians and Europeans who have devoted special attention to the matter, there is an unfortunate tendency to exaggerate the value of old Indian art and thus to encourage the belief that the Indian at sist of to-day can find no higher task than the repetition of old and narrow conventions. It is perfectly true that we must accept the convention of any art without a priori objections, but it by no means follows that one convention is as good as another. The question arises what limits a convention sets on those working within it, and it is plain that the conventions of Indian art have compelled the exclusion of a vast amount of the Western painter's best material. On the other hand, it should be recognised that his traditions have made it almost impossible for the Indian artist to fall into the common Western error of taking a mere representation of fact to be the aim of art. It is most desirable that the Indian artist of to-day should revive the old traditions; that he should be genuinely Indian, but it is not desirable that he should needlessly cramp himself because certain enthusiasts assure him that the defects and limitations of classic Indian art are positive merits. The Indian artist has a vast treasure of religious and pile to observe and create over again. There is no occasion for an unwise asceticism on the ground that ancient conventions ruled out most of the material.

Manners and Customs.

Next to the complexion of the people, which varies from fair to black, the tourist's attention in India is drawn by their dress and personal decoration. In its simplest form a Hindu's dress consists of a piece of cloth round the loins. Many an ascetic, who regards dress as a luxury, wears nothing more, and he would dispense with even so much if the police allowed him to. The Mahomedan always covers his legs, generally with trousers, sometimes with a piece of cloth tied round the waist and reaching to the ankles. Hill men and women, who at one time wore a few leaves before and behind and were totally innocent of clothing do not appear to-day within the precincts of civilisation and will not meet the tourist's eye. Children, either absolutely nude or with a piece of metal hanging from the waist in front, may be seen in the streets in the most advanced cities, and in the homes of the rich. The child Krishna, with all the jewels on his piecrue, is nude in his pictures and images.

Dress.—The next stage in the evolution of the Hindu dress brings the loincloth nearly down to the feet. On the Malabar coast, as in Burma, the ends are left loose in front. In the greater part of India, they are tucked up behind—a fashion which is supposed to befit the warrior, or one end is gathered up in folds before and the other tucked up behind. The simplest dress for the trunk is a scarf thrown over the left shoulder, or round both the shoulders like a Roman toga. Under this garment is often worn a coat or a shirt. When an Indian appears in his full indigenous dress, he wears a long robe, reaching at least down to the calves: the sleeves may be wide, or long and sometimes puckered from the wrist to the elbow. Before Europeans introduced buttons, a coat was fastened by ribbons, and the fashion is not obsolete. The Mahomedan prefers to button his coat to the left, the Hindu to the right. A shawl is tied round the waist over the long coat, and serves as a belt, in which one may carry money or a weapon, if allowed. The greatest variety is shown in the head-dress. More than seventy shapes of caps, hats, and turbans, may be seen in the city of Bombay. In the Punjab and the United Bombay. In the Punjab and the United Provinces, in Bengal, in Burma and in Madras other varieties prevail. Cones and cylinders, domes and truncated pyramids, high and low, with sides at different angles: folded brims, projecting brims: long strips of cloth wound round the head or the cap in all possible ways, ingenuity culminating perhaps in the "parrot's beak" of the Maratha turban—all these fashions have been evolved by different communities and in different places, so that a trained eye can tell from the head-covering whether the wearer is a Hindu, Mahomedan or Parsi, and whether he hails from Poona or Dharwar, Ahmedabad or Bhavnagar.

Fashion Variations.—Fashions often vary with climate, and occupation. The Bombay sisherman may wear a short coat and a cap, and may carry a watch in his pocket; yet, as he must work for long hours in water, he would not cover his legs, but suspend only a coloured kerchief from his waist in front. The Pathan of the cold north-west affects loose, baggy

trousers, a tall head-dress befitting his stature and covers his ears with its folds as if to keep off cold. The poorer people in Bengal and Madras do not cover their heads, except when they work in the sun or must appear respectable. Many well-to-do Indians wear European dress at the present day, or a compromise between the Indian and European costumes, notably the Indian Christians and Parsis. Most Parsis however have retained their own head-dress, and many have not borrowed the European collar and cuffs. The majority of the people do not use shoes: those who can aford them wear sandals, slippers and shoes, and a few cover their feet with stockings and boots after the European fashion in public.

Women's Costumes—The usual dress of a woman consists of a long piece of cloth tied round the waist, with folds in front, and one end brought over the shoulder or the head. The folds are sometimes drawn in and tucked up behind. In the greater part of India women wear a bodice: on the Malabar coast many do not, but merely throw a piece of cloth over the breast. In some communities petticoats, or drawers, or both are worn. Many Mussalman ladies wear gowns and scarfs over them. The vast majority of Mahomedan women are gosha, and their dress and persons are hidden by eveil when they appear in public: a few converts from Hindulsm have not borrowed the custom. In Northern India Hindu women have generally adopted the Mussalman practice of sechision. In the Dekhan and in Southern India they have not.

As a rule the hair is daily oiled, combed parted in the middle of the head, plaited and rolled into a chignon, by most women. Among high caste Hindu widows sometimes shave their heads in imitation of certain ascetics, or monks and nuns. Hindu men do not, as a rule, completely shave their heads, Mahomedans in most cases do. The former generally remove the hair from a part of the head in front, over the temples, and near the neck, and grow it in the centre, the quantity grown depending upon the fancy of the individual. Nowadays many keep the hair cropped in the European fashion, which is also followed by Parsis and Indian Christians. Most Mussalmans grow beards, most Hindus do not, except in Bengal and elsewhere, where the Mahomedan induence was paramount in the past. Parsis and Christians follow their individual inclinations. Hindu ascetics, known as Sadhus or Bairagis as distinguished from Sanyasis, do not clip their hair, and generally coil the uncombed hair of the head into a crest, in imitation of the god Shiva.

Hindu women wear more ornaments than others of the corresponding grade in society. Ornaments bedeck the head, the ears, the nose, the neck, the arms, wrists, fingers, the waist-until motherhood is attained, and by some even later—and the toes. Children wear anklets. Each community affects its peculiar ornaments, though imitation is not uncommon. Serpents with several heads, and flowers, like the lotus, the rose, and the champaka, are among the most popular objects of representation in gold or silver.

Caste Marks.—Caste marks constitute a mode of personal decoration peculiar to Hindus, especially of the higher castes. The simplest mark is a round spot on the forchead. It represents prosperity or joy, and is omitted in mourning and on fast-days. It may be red, or yellowish as when it is made with ground sandalwood paste. The worshippers of Vishnu draw a vertical line across the spot, and as Lakshmi is the goddess of prosperity, it is said to represent her. A more elaborate mark on the forchead has the shape of U or V, generally with the central line, sometimes without it, and represents Vishnu's foot. The worshippers of Shiva adopt horizontal lines, made with sandalwood paste or ashes. Some Vaishnavas stamp their temples, near the corners of the cyes, with figures of Vishnu's conch and disc. Other parts of the body are also similarly marked. The material used is a kind of yellowish clay. To smear the arms and the chest with sandalwood paste is a favourite kind of toilet, especially in the hot season. Beads of Tulsi or sacred Basil, and berries of Rudraksha eleocarpus ganitrus, strung together are worn round their necks by Vaishnavas and Shaivas respectively. The Lingayats, a Shaiva sect. Shaiva sect. Shaiva sectles, besides wearing Rudraksha eleocarpus ganitrus, strung together are worn round their necks with ashes. Religious mendicants suspend from their necks and matted hair, smear their bodies with ashes. Religious mendicants suspend from their necks figures of the gods in whose name they beg. Strings of cowries may also be seen round their necks. Muslim dervishes sometimes carry peacocks feathers.

Hindu women mark their forcheads with a red spot or horizontal line. High caste widows are forbidden to exhibit this sign of happiness, as also to deck themselves with flowers or ornaments. Flowers are worn in the chignon. Hindu women smear their faces, arms, and feet sometimes with a paste of turmeric, so that they may shine like gold. The choice of the same colour for different purposes cannot always be explained in the same way. The red liquid with which the evil eye is averted may be a substitute for the blood of the animal slaughtered for the purpose in former times. In many other cases this colour has no such associations. The Muslim devish affects green, the Sikh Atali is fond of blue, the Sanyasi adopts orange for his robe, and no reason can be assigned with any degree of certainty.

Shiva.—India is a land of temples, mosques and shrines, and the Hindu finds at every turn some supernatural power to be appeased. Shiva has the largest number of worshippers. He has three eyes, one in his forchead, a moon's crescent in his matted hair, and at the top of the coil a woman's face representing the river Ganges. His abode is the Mount Kailas in the Himalayas, from which the river takes its source. Round his neck and about his ears and limbs are serpents, and he also wears a necklace of skulls. In his hands are several weapons, especially a trident, a bow, and a thunderbolt, and also a drum which he sounds while dancing for he is very fond of this exercise. He sits on a tiger's skin, and his vehicle is a white buil. His wife Parvati and his son Ganesha sit on his thighs. An esoteric mean-

ing is attached to every part of his physical personality. The three eyes denote an insight into the past, present and future: the moon, the serpents, and the skulls denote months, years and cycles, for Shiva i: a personification of Time, the great destroyer. He is also worshipped as a Linga or phallus which represents creative energy.

Ganpat.—Ganesh or Ganpati, the controller of all powers of evil subject to Shiva, is worshipped by all sects throughout India. Every undertaking is begun with a prayer to him. He has the head of an elephant, a large abdomen, serpents about his waist and wrists, several weapons in his hands, and a piece of his tusk in one hand. He is said to have broken it off when he wanted to attack the moon for ridiculing him. The different parts of his body are also esoterically explained. His vehicle is a rat.

Parvati.—Parvatl, the female energy of Shiva, is worshipped under various names and forms. She is at the head of all female supernatural powers, many of whom are her own manifestations. Some are benign and beautiful, others terrible and ugly. Kall, the tutelary deity of Kalighat or Calcutta, is one of her ferce manifestations. In this form she is black: a tongue smeared with blood projects from her gaping mouth: besides her weapons, she carries corpses in her hands, and round her neck are skulls. Bombay also takes its name from a goddess, Mumbadevi. Gouri, to whom offerings are made in Indian homes at an annual festival, is benign. On the other hand the epidemic diseases like the plague and smallpox are caused by certain goddesses or mothers."

Vishnu, the second member of the Hindu tritty, is the most popular deity next to Silvay. He is worshipped through his several incarnations as well as his original personality. His home is the ocean of milk, where he reclines on the coils of a huge, many-headed serpent. At his feet sits Lakshmi, shampooing his legs. From his navel issues a lotus, on which is seated Brahma, the third member of the trinity. In his hands are the conch, which he blows on the battlefield, and the disc, with which the heads of his enemies are severed. Round his neck are garlands of leaves and flowers, and on his breast are shining jewels. As Shiva represents destruction, Vishnu represents protection, and his son is the god of love. To carry on the work of protection, he incarnates himself from time to time, and more temples are dedicated nowadays to his most popular incarnations, Rama and Krishna, than to his original personality. Rama is a human figure, with a bow in one of his hands. He is always accompanied by his wife Sita, often by his brother Lakshmana, and at his feet, or standing before him with joined hands, is Hanuman, the monkey chieftsin, who assisted him in his expedition against Ravana, the abductor of his wife. Krishna is also a human figure, generally represented as playing on a flute, with which he charmed the damsels of his city, esoterically explained to mean his devotees.

Brahma is seldom worshipped: only a couple of temples dedicated to him have yet been discovered in all India.

Minor Deities.—The minor gods and goddesses and the defined heroes and heroines who fill the Hindu pantheon, and to whom shrines are erected and worship is offered, constitute a legion. Many of them enjoy a local reputation, are unknown to sacred literature, and are worshipped chiefly by the lower classes. Some of them, though not mentioned in ancient literature, are celebrated in the works of modern saints.

The Jains in their temples, adore the sacred personages who founded and developed their sect, and venerate some of the detties common to Hinduism. But their view of Divinity is different from the Hindu conception, and in the opinion of Hindu theologians they are atheists. So also the Buddhists of Burma pay almost the same veneration to Prince Siddhartha as if he was a god, and Indeed elevate him above the Hindu gods, but from the Hindu standpoint they are also atheists.

Images.—Besides invisible powers and defied persons, the Hindus venerate certain animals, trees and inanimate objects. This veneration must have originated in gratitude, fear, wonder, and belief in spirits as the cause of all good or harm. Some of the animals are vehicles of certain gods and goddesses—the eagle of Vishnu: the swan of Brahma: the peacock of Saraswati: Hanuman, the monkey, of Rama: one serpent upholds the earth, another makes Vishnu's bed: elephants support the ends of the universe, besides one such animal being Indra's vehicle: the goddess Durga or Kali rides on a tiger: one of Vishnu's incarnations was partly man and partly lion. The cow is a useful animal: to the Brahman vegetarian her milk is indispensable, and he treats her as his mother. So did the Rishi of old, who often subsisted on milk and iruits and roots. To the agriculturist cattle are indispensable. The snake excites fear. Stones, on which the image of a serpent is carved, may be

seen under many trees by the roadside. The principal trees and plants worshipped are the Sacred Fig or Pipal, the Banyan, the Sacred Basil, the Bilva or wood apple, the Asoka, and the Acacia. They are in one way or another associated with some deity. The sun, the moon, and certain planets are among the heavenly bodies venerated. The ocean and certain great rivers are held sacred. Certain mountains, perhaps because they are the abodes of gods and Rishis, are holy. Pebbles from the Gandaki and the Narmada, which have curious lines upon them, are worshipped in many households and temples.

Worship.—Without going into a temple, one can get a fair idea of image worship by seeing how a serpent-stone is treated under a tree. It is washed, smeared with sandal, decorated with flowers: food in a vessel is placed before it, lamps are waved, and the worshipper goes round it, and bows down his head, or prostrates himself before the image. In a temple larger bells are used than the small ones that are brought to such a place: jewels are placed on the idol: and the offerings are on a larger scale. Idols are carried in public procession in palanquins or cars. The lower classes sacrifice animals before their gods and goddesses.

Domestic Life.—Of the daily domestic life of the people a tourist cannot see much. He may see a marriage or funeral procession. In the former he may notice how a bridegroom or bride is decorated; the latter may shock him, for a Hindu dead body is generally carried on a few pieces of bamboo lashed together; a thin cloth is thrown over it and the body is tied to the frame. The Mahomedan bler is more decent, and resembles the Christian coffin. Some Hindus, however, carry the dead to the burial ground in a palanquin with great pomp. The higher castes cremate the dead: others bury them. Burial is also the custom of the Muslims, and the Parsis expose the dead in Towers of Silence.

Indian Names.

The personal name of most Hindus denotes a material object, colour, or quality, an animal, a relationship, or a deity. The uneducated man, who cannot correctly pronounce long Sanskrit words, is content to call his child, father, brother, uncle, or mother, or sister, as the case may be. This practice survives among the higher classes as well. Appa Saheb, Anna Rao, Babaji, Bapu Lai, Bhai Shankar, Tatacharya, Jijibhai, are names of this description, with honorific titles added. It is possible that in early society the belief in the re-birth of departed kinsmen lent popularity to this practice. Nothing could be more natural than to call a man white, black, or red; gold or sliver; gen, diamond, ruby, pearl, or merely a stone; small or tall, weak or strong; a llon, a snake, a parrot, or a dog; and to name a woman after a flower or a creeper. Thus, to take a few names from the epics, Pandu means

white, and so does Arjuna: Krishna black: Bhima terrible: Nakula a mongoose: Shunaka a dog: Shuka a parrot: Shringa a horn. Among the names prevalent at the present day Hirs is a diamond: Rataa or Rataa a jewel: Sonu or Chinna gold: Veili or Beili, in the Dravidian languages, means white metal or silver. Men are often called after the days of the week of which they were born, and hence they bear the names of the seven heavenly bodies concerned. When they begin to assume the names of the Hindu deities, they practically enter upon a new stage of civilisation. It is doubtful whether the Animists ever venture to assume the names of the dreaded spirits worshipped by them. To pronounce the name of a devil is to invite him to do harm. If the spirits sometimes bear the names of human beings, the reason seems to be that they were originally human.

High-caste practices.—The high caste Hindu on the other hand, believes that the more often the name of a delty is on his lips, the more merit he earns. Therefore he deliberately names his children after his gods and goddessess, so that he may have the opporgodinessess, so that he may have the dipole-tunity of pronouncing the holy names as fre-quently as possible. These are also sonorous and picturesque. Shiva is happy: Vishnu is a pervader: Govinda is the cowherd Krishna: Keshava has fine hair: Rama is a delighter: Lakshmana is lucky: Narayana produced the first living being on the primeval waters: Ganesha is the Lord of Shiva's hosts: Dinakara is the luminary that makes the day: Subrab-manya is a brother of Ganesha. Sita is a furrow: Saitri a ray of light: Tara a star: Radha prosperity: Rukmini is she of golden ornaments: Bhama of the glowing heart. Shiva and Vishnu has each got at least a thousand names, and they may be freely drawn upon and paraphrased in naming one's children; and the whole Hindu pantheon is as crowded as it is large. When a mother loses several spirit has conspired against her and in order to make her off-spring unattractive to the powers of darkness, she gives them ugly names, such as Keru, rubbish, or Ukirda, dunghill, or Martoba, the mortal. Women are named after Martoba, the mortal. Women are named after rivers, as Sarasvati, Ganga, Bhagirathi, Godavari, or Kaveri, just as men are sometimes called after mountains. Manu counsels young men not to choose a wife with such a name, perhaps because a river is an emblem of deviousness and inconstancy, as a hill is an emblem of stability. But the names of rivers have not been discarded. The Burmans have a curious custom: if a child is born on a Monday, its name must begin with a guttural, on Tuesday with a palatal, on Thursday with a labial, on Saturday with a dental.

Family names.—When a person rises in importance, he adds to his personal name a family or caste name. It was once the rule that the title Sharma might be added to a Brahman's name, Varma to a Kshariya's, Gupta to a Valshyas, and Dass to a Shudra's. This rule is fairly well observed in the case of the first two titles, but the meaning of the other two has changed. Dasa means a slave or servant, and the proudest Brahman cannot disdain to call himself the servant of some god. Thus, although Kalidas, the famous poet, was a Shudra, Ramadas, the famous poet, was a Shudra, Ramadas, the famous guru of Shivaji, was a Brahmin. The Vaishnavas have made this fashion of calling one-self a servant of some god exceedingly popular, and in Western India high caste Hindus of this sect very commonly add Das to their names. The Brahmans of Southern India add Aiyer or Aiyangar to their names. Shastri, Acharya, Bhat, Bhattacharya, Upadhyaya, Mukhopadhyaya, changed in Bengal into Mukerji, are among the titles indicative of the Brahmanical profession of studying and teaching the sacred books. Among warlike classes, like the Rajputs and Sikhs, the title Singh (Ilon) has become more popular than the ancient Varma. The Sindhi Mal, as in Gidumal, means brave and has the same force. Raja, changed into Raya, Rao and Rai was a political title, and is not confined to any caste.

Dutt and Mitra, Sen and Guha, enable one to identify the easte of their bearers, because the caste of a family or clan cannot be changed. Shet, chief of a guild or a town, becomes Chetty, a Vaishya title, in Southern India. Mudaliyar and Nayudu, meaning leaders, are titles which were assumed by castes of political importance under native rulers. Nayar and Menon are the titles of important castes in Malabar. Ram, Lal, Nand, Chand, are among the additions made to personal names in Northern India. Suffixes like Ji, as in Ramji or Jamshedji, the Kanarese Appa, the Telugu Garu, the feminine Bai or Devi, are honorific. Prefixes like Babu, Baba, Lala, Sodhi, Pandit, Raja, and the Burmese Manng are also honorific.

Professional names.—Family names somerotessional names.—raminy names sometimes denote a profession: in some cases they might have been conferred by the old rulers. Mehta, Kulkarni, Deshpande, Chitnavis, Mahalnavis are the names of offices held in former times. One family name may mean a flour seller, another a cane-seller, and a third a liquor-seller. To insert the father's name between one's personal and the family name is a common practice in Western India. It is a common plactice in western india. It is rare elsewhere. When a family comes from a certain place, the suffix 'kar' or 'wallah' is added to the name of the place and it makes a family surname in Western India. Thus we may have Chiplunkars and Suratwallahs, or without these affixes we may have Bhavnagris, without these affixes we may have Bhavnagris, Malabaris and Bilimorias, as among Parsis. Thus Vasudev Pandurang Chiplunkar would be a Hindu, whose personal name is Vasudev, father's name Pandurang, and family name derived from the village of Chiplun, is Chiplunkar. In Southern India the village name precedes the personal name. The evolution of Musalman names follows the same lines. Hindu names. Bit Muslims have no god as Hindu names. But Muslims have no god or goddesses, and their names are derived from their religious and secular history. These names and titles are often as long and pio-turesque as Hindu appellations. The agno-mens Baksh, Din, Ghulam, Khwaje, Fakir, Kazi, Munshi, Sheikh, Syed, Begum, Bibi and others, as well as honorific additions like Khan, have meanings which throw light on Muslim customs and institutions. The Parsis also have no gods and goddesses, and their personal names are generally borrowed from their sacred and secular history. Their surnames frequently indicate a profession or a place, as in the case of Hindus in Western India. Batliwallah, Readymoney, Contractor, Saklatwallah, Adenwallah and others like them are tell-tale names.

Conversions.—As a rule, a child is named soon after it is born, and in the case of males the appellation is not changed. The higher Hindu castes have a separate ceremony called the name-giving ceremony performed on the twelfth day after birth. When a girl is married in these castes, the husband's family give her a new personal name. When a boy is invested with the sacred thread and is made a twiceborn, his name is not changed, but when a man joins an order of ascetics, his lay name is dropped, and he assumes a new name. So also when a Burman joins an order of monks or nuns, the lay name is superseded by a Paliname. Christian converts change their original name when they are baptised.

Big Game Hunting.

From the earliest times India has been famous as a land affording ample pastime for the mighty hunter before the Lord. Did not Baber, first of the great Mughals, pursue the rhinoceros on the banks of the Indus? And since then the Nimrods of all the ages have found in the East most happy hunting grounds. No country, not even Africa, has afforded a greater variety of desirable game. The great oxen of India, the gaur, the buffalo, and the yak found upon its northern confines, are unequalled by the bovine animals of any land. The big horn and the white goat of the Rocky Mountains are beyond all measure inferior to the fine sheep and goats that inhabit the precipitous fastnesss of the Himalayas and the Tibetan plains beyond, which though not within the limits of our Eastern Empire, are accessible to sportsmen from India. The tiger has been adjudged by experienced observers to be the greatest and most imposing of felines, to whom even the maned lion must give place, both as regards beauty, size, ferocity and offensive armature; nor is the lion unknown in India, though sadly diminished in numbers and in range of habitat. The Indian elephant is perhaps inferior in size, though su-perior in point of utility to his African con-gener; and India possesses four species of bears which find no counterpart in the Dark Continent. Africa again, although abounding in a vast variety of antelopes, can show no stag equal to the bara singh, the sambar, and the spotted deer, whilst among all its tribe of ante-lopes none surpasses the black buck in grace and beauty.

Although the quantity of big game in India has decreased considerably during recent years, there is still no lack of sport for those who have the will to travel far in search of it. British rule there has been a great increase in population, demanding an increased area of cultivation, while the network of railways that has been spread all over the country has to some extent cut up the haunts of game. But in some respects these factors have been advantageous to the hunter. Game laws have been tageous to the hunter. Game laws have been instituted; large areas of forest are reserved, and game sanctuaries formed in some localities. Railways have brought within reach distant hunting grounds that could formerly be visited only with difficulty. The sportsman from Europe, unacquainted with the language and country, will find great difficulty in carrying out expeditions in pursuit of big game unless he is provided with suitable introductions. But with the aid of friends among the officials it is still possible for the keen hunthe officials it is still possible for the keen hunter to obtain good sport, although for the best of it he must remain in India during at least a portion of the hot season of the year. It is then that the tigers, which have been wander-ing over extensive areas during the cold weather; may be more easily brought to bag, for the jungle has thinned out, and the great beasts, impatient of thirst, have to frequent the viciimpatient of thirst, have to frequent the vicinity of water which, away from the rivers, is now confined to scanty pools. For hunting the gaur or bison, perhaps the early part of the rainy season is best, when the leaves that in dry weather crackle so loudly under foot have

been softened by the fall of the rain. But they also, and buffaloes, bears and leopards may well be sought for in the hot weather, when the forest, stripped of its leaves, affords them little concealment. The stags, which cast their antiers annually, must of course be hunted at the proper season, the spotted deer in the hot weather and other species during the cold season of the year. The great horned game of the Himalayas, the ibex, markhor, and the fine sheep to be found in the mountain fastnesses and in the trans-Himalavan regions must be looked for when the snow admits of the sportsmen reaching their habitat. Kashmir may well be revisited in March, but the passes that lead to the roof of the world, where ovis ammon and ovis poli are to be found will probably not be open before June or July.

Hunting grounds are to be found throughout the length and breadth of India. Mysore out the length and breadth of Indas. Byson and Burma produce the finest bison, but these splendid animals, though strictly preserved, are to be found also in the forests of the Satpura Hills, that paradise of big game. The sportsman with a year at his disposal, provided he has suitable introductions and is prepared to work bard should be able to seems greatings. work hard, should be able to secure specimens of most of the game animals of India. He might well begin in January in the Central Pro-vinces, where he would find black buck, gazelle, Nilgai, and a variety of small game in the open country, and where there should be no difficulty in securing some panthers and sloth bears, sambar, spotted deer and swamp deer. In the hills also he will find barking deer and four horned antelope, while tigers are not uncommon, and in remoter parts buffalo may be met with. About the middle of March the sportsman could go on to Kashmir, and find there brown and black bears, ibex, markhor and shapoo or oorial, before crossing into Tibet. He might be fortunate enough to come across a stag that had not yet cast its antlers, and failing this, he could get his stag on the return journey towards the end of October, or in November. If he has more time at his disposal, Burma might well be visited, for there are found several species not to be obtained in India, such as the tsine, the browantiered deer, and the Malayan bear, and elephants and rhinoceros might perhaps be met with; but this would probably entail an extension of the tour considerably in excess of the twelve months.

It is not advisable to lay down the law as to rifles and equipment, but the sportsmen may be recommended not to use small-bore rifles for dangerous game. A 450 cordite rifle should suffice for big game, and a smaller bore for antelope and gazelle, while a 12-bore gun will be found most useful for feathered game. All equipment in the way of tents and furniture is best purchased in India, and a list of the necessary articles could be posterior formany offisary articles could be obtained from any official who is acquainted with camp life.

Routes between India and Europe.*

and from Europe is Bombay. There are six lines of steamers by which the journey to and from the West via Bombay can be performed, either by sea all the way or and in some cases only—by sea part of the way and by rail across Europe. They are the P. & O., the Anchor Line, the City and Hall Line, the Austrian Lloyd, the Messageries Maritimes and the Rubattino. The Natal line steamers are available for Western passages only, the steamers sailing round the Cape on their Eastward voyages. There are other services between Calcutta and the West, by steamers sailing round Ceylon, and several lines connect Colombo with Europe. Of the latter the Orient, the North German and the Bibby Lines are the chief, besides the P. & O. The Bibby service extends to Rangoon. The new railway between India and Ceylon greatly ineither by sea all the way or- and in some cases railway between India and Ceylon greatly increases the importance by the Colombo route for Southern India. The shortest time be-tween London and Bombay is 14 days.

The P. & O.

The Indian port for the direct journey to sailings each way are direct. In other weeks d from Europe is Bombay. There are six a special steamer runs from Bombay to Aden where it connects with the Australian Homeward Mail and similarly, for the outward voyage, passengers and baggage and mails are transferred on alternate weeks to a steamer at Aden which proceeds thence direct to Bombay. The P. & O. carry the postal mails. The steamers call at Aden, Port Said, Mar-seilles, and Gibraltar. Passengers are not allowed to land at Aden but there is ordinarly time for them to spend some hours ashore at Port Said and Marseilles and a shorter time at Gibraltar. Passengers may travel west-ward from Port Said by any of the following methods :-

methods:—
By fast special mail steamer connecting with the liner at Port Said and running to Brindisi; thence by special train to Calais; thence by ordinary channel steamer to Dover and so to London;
By the liner to Marsellles; thence by special P. & O. express to Calais and so by Dover to London;

London; or

By Liner to Plymouth or Tilbury Dock. The P. & O. steamers run weekly from Bombay and London, leaving Bombay on are similar, in reverse order, with the excepsaturday and London on Friday. Alternate ton that no call is made at Plymouth.

The following are the single ticket rates from Bombay to Europe:-

					1	First Sale	oon.	Second Saloon.		
•						A.	В.	A.	В.	
					Ì	Rs.	Rs.	Rs.	Rs.	
London, with optic				mouth		858	759	627 or	528	
London <i>via</i> Marseil	les, ir	cludin	g rail	·		894	795	664 or	565	
London via Marsei	lles, ir	cludin	g rail a	nd sleer	ing	936	837		1	
car.						- 1		1	1	
London via Brindi	isi ind	luding	rail a	nd slee	ping	936	837	•••	1	
car.					- 1		444		1	
Fibraltar or Marse	шев	• •	• •	• •	••	792	693	594 or	495	
Brindisi			• •	• •		792	693		1	
Aden						313-8		231 or	214-	
Suez or Port Said			• •			726		561 or	462	

Free tickets are issued to Karachi passengers by B. I. S. N. Co.'s steamers between Bombay and Karachi for either eastward or westward voyage. The transfer from the B. I. steamer to the P. & O. steamer, or vice-versa, is made in Bombay harbour by launch, without goingashore.

The following are the return ticket rates between Bombay and Europe, the tickets being available for 24 months :--

To London by sea		Rs.	A. Rs.	B. Rs		
Returning— From London (by Sea) From London (via Marseilles, including rail) From Marseilles To London (via Marseilles, including rail)		1,287-0 1,339-8 1,237-8	940-8 985-12 915-12	792-0 837-4 767-4		

 ^{*} The war has partially disarranged the sailing programmes and stopped the European Continental train services; the Austrian-Lloyd steamers have ceased running.

	1st Class	2nd C	lass.
Returning— From London (via Marseilles, including rail) From London (by sea) From Marseilles To Marseilles	Rs. 1,392–0 1,339–8 1,290–0	A. Rs. 1,031-0 985-12 961-0	B. Rs. 882-8 837-4 812-8
Returning From Marseilles From London (via Marseilles, including rail) From London (by Sea) To Brindisis.	1,188-0 1,290-0 1,237-8	891-0 961-0 915-12	742-8 812-8 767-4
Returning— From Brindisi or Marseilles	1,188-0 1,237-8 1,290-0	::::	
Returning the same way or via Marseilles including rail and sleeping car by the Special Trains in both directions To London via Marseilles. Returning the same way or via Brindisi including rail and sleeping car, by the Special Trains, in both directions.	1,476-0 1,476-0	••••	••••

The first saloon inside cabins on the Main deck of the Mail Steamers are let at the reduced rate of Rs. 1,039-8-0 from Bombay to Marsellles and back, or Rs. 1,138-8-0 from Bombay to London and back.

First Saloon passengers are allowed 3 cwts. of personal Baggage free of Freight; Second Saloon passengers and servants 1½ cwt. each; Children over three and under 12 years of age half these weights; Ayahs and other native servants 1½ cwt. each free.

Anchor Line.

The Anchor Line steamers run between Bombay and Liverpool and there are ordinarily two steamers each way per month. Westward-bound steamers call at Marseilles, so that passengers can leave the ship there if they wish. Other calls are at Port Said and Gibraltar. Eastward bound steamers do not call at Marseilles. Free tickets by B. I. S. N. Co.'s steamers are issued to Karachi passengers to and from Bombay. The passage rates westward from Bombay are as follows:—

Fares from Bombay (all one class).								Single Tickets.	Return Tickets.	Single Tickets for Native Servants.
To Suez To Port Said To Marseilles To Marseilles ar To London over To London over To Liverpool	rland f	rom Ma	rseille	s	ack from	n Liver	pool	Rs. 413 446 578 653	Rs. 627 677 924 999 957	220 284

Passengers are allowed to take, free of charge, 40 cubic feet of baggage, excess being charged at the rate of a shilling per cubic foot. Dogs are carried and the charge for them is Rs. 50 per animal—arrangements must be made with the ship's butcher as to feeding.

The voyage Bombay to Liverpool occupies approximately 30 days. Bombay Agents:

W. & A. Graham & Co.

Ellerman's "City" & "Hall" Lines.

The City and Hall Liners sail westward for the most part from Karachl, via Bombay. Some ships go direct from one port and others direct from the other. They sail to Liverpool and passengers can be booked via Markeilles and Overland either Eastward or Westward. Most of the steamers have both first and second class accommodation. Others have one class only. Passengers booking their berths in Karachl for steamers sailing from Bombay are

given free tickets from Karachi to Bombay by a British India S. N. Co.'s steamer. They are transferred immediately on arrival in Bombay to the Ellerman liner if she is sailing the same day; otherwise they are landed and at the same time informed as to when the steamer for Europe sails.

Adult 1st class passengers are allowed 3 cwt. of luggage free, subject to a limit in measure-ment of 40 feet. Children and European servants travelling first class are allowed fit that quantity. Children and native servants travelling 2nd class are allowed 60 lbs. Bicycles in crates or cases are specially charged for.

Single fares from Karachi or Bombay :-

	First	Second	Native
	Saloon.	Saloon.	Servants.
To Marseilles or Genoa (Return ex-Marseilles or Naples) To London via Marseilles or Genoa including rail (returning	Rs.	Rs.	Rs.
	578	429	253
ex-Liverpool or Naples at Steamer's option) To Liverpool by sea To London via Marseilles ex-Genoa including rail return via	653 605	489 462	264
Marseilles	653	489	

The return fare rates are as follows: the tickets holding good for two years:-

	First Saloon.	Second Saloon.	Native Servants.
To Marseilles or Genoa (Return ex-Marseilles or Naples) To London via Marseilles or Genoa including rail (returning ex-Liverpool or Naples at Steamer's option)	Rs. 891 999	Rs. 649 737	Rs. 380
To Liverpool by sea To London via Marseilles ex-Genoa including rail return via Marseilles	957 1,091	704 809	396

Bombay Agents · Killick, Nixon & Co.

Austrian Lloyd.

Austrian Lloyd.

Austrian Lloyd steamers sail regularly between Bombay and Trieste, a steamer leaving each place on the 1st and 16th of every month. During the homeward and outward seasons the journey between Bombay and Trieste and vice versa is performed in 14 days. Ships call at Venice during March to June, on the Westward voyage, en route to Trieste. In addition to the foregoing, there is a service of slower boats, running approximately once a month and occupying about 20 days between Bombay and Trieste.

Through bookings to London can be made. Dogs and birds may be taken, on payment. Passengers sailing westward can hand over their heavy baggage before arrival at Port Said for free transport by sea to London. Similarly, baggage can be sent from London in advance to be picked up at Port Said on the outward voyage.

The following are the single fares from Bombay (or from Karachi by steamers from Karachi only) :--

						Accelera	Ordinary Line.	
						(Saloon.)	Inter- mediate.	(Single Saloon).
To Aden To Suez To Port Said To Trieste or	Venice	::	::	::	::	Rs. 225 375 390 500	Rs. 150 285 300 350	Rs. 173 315 330 450

^{*} The fare for a deck passage, with food, to Trieste is Rs. 150; without food, Rs. 130. Similar passages to intervening ports at lower charges.

Messageries Maritimes.

Steamers of the Messageries Maritimes sail between Bombay and Marseilles, touching at Adea and Port Said, monthly throughout the year. Free passages are granted by B. I. S. N. Co,'s boats for Karachi passengers for the voyage between Karachi and Bombay. Fares:—

(Single: from Bombay).

			First C	Class.	Second Class.	Third Class.
To Marseilles To London via Marseilles	::	::	 A. Rs. 792 858	B. Rs. 594 660	Rs. 495 528	Rs. 225 270

(Return: from Bombay).

		First C	lass.	Second Class.	Third Class.		
To Marseilles To London <i>via</i> Marseilles	::	::	::	A. Rs. 1,188 1,287	B. Rs. 891 990	Rs. 743 792	Ks. 405 495

Rubattino.

Monthly sailings from Bombay for Messina, Naples and Genoa, Messina ordinarily being reached on the 17th day, Naples on the 18th and Genoa on the 20th. The usual baggage allowances are made and baggage is conveyed free by sea from Port Said to London by arrangements similar to those of the Austrian Lloyd.

Fares from Bombay to Naples or Genoa:---

	Single	Journey.	Į	Return Journey.				
First Saloon.			Second		oon.			
A Rate.	B Rate.	C Rate.	Saloon.	A Rate.	B Rate.	C Rate.	Second Saloon.	
Rs. 550	Rs. 500	Rs. 450	Rs. 350	Rs. 825	Rs. 750	Rs. 675	Rs. 525	

The Austrian Lloyd, Messageries Maritimes and Rubattino have a joint arrangement by which passengers taking return tickets may travel one way by one line and return by one

Natal Line.

The steamers make their eastward voyages round South Africa. Westward sailings from Bombay to Weymouth usually once a month during the season.

Fares, Bombay to Weymouth (25 days):—First class, Rs. 375 to Rs. 420, according to class of steamer and position of berth. Cheap first class tickets are issued for berths in 2-, 3-, and

Bibby Line.

Two (in the season, sometimes three) sailings monthly from Rangoon, via Colombo and Marseilles, to Liverpool. Fares from Rangoon and Colombo:—

	Si	ngle.	Return.			
	1st	Class.	1st Class, available	1st Class, available for 2 years.		
	From Rangoon	From Colombo	for 4 months from Rangoon.	From Rangoon	From Colombo.	
	Rs.	Rs.	Rs.	Rs.	Rs.	
To Marseilles	550	550	900	1,000	825	
To London by sea returning from Liverpool	600	575	1,000	1,050	875	
To London by sea returning from London			1,025	1,100	900	
via Marseilles. To London via Marseilles	625	625	1,050	1,150	975	
To Marseilles returning from Liverpool by sea			950	1,025	850	
To London by sea returning from Marseilles	· .]		950	1,025	850	

Free 1st class tickets, Tuticorin—Colombo are given to passengers from South India,
Orient Line,

Fortnightly sailings (Australian Mail) on Thursdays from Colombo to Port Said, Naples, Marseilles, Plymouth and London. Fares from Colombo :—

	•		1st Sa	loon.		2nd 8	aloon.
		8	ingle.	Return, 2 years.	s	ingle.	Return, 2 years.
		Î	Rs.	Rs.		Rs.	Rs,
•		ſ	495	743	h	462	693
Suez, Ismailia and Port Said		K	594	891	}		
•		$\ \cdot\ $	726	1,089	IJ	495	743
		1	561	842	1	495	743
Naples, Marseilles and Gibraltar	••	K	660	990	}		
. -		1	792	1,188	IJ	528	792
		١	594	891	1	528	792
Plymouth and London	••	K	693	1,040	}		
•		l	858	1,288	J	561	842

Concessions for tickets, Tutlcorin—Colombo, are given to South India passengers. Tickets are issued for native servants.

It used to be possible to obtain cheap passages, eastward or westward, in cargo ("tramp") steamers. These are now next to impossible to secure, because as the steamers are not licensed to carry passengers, passengers have to sign on as members of the crew, and the recent extension of the Employers' Llability Act then involves the ship's owners in liability to compensation to them for a variety of causes.

Train Services.

The following are the principal European train routes for east and west journeys, with booking charges. The fares are the same in either direction and breaks of journey are allowed en route.

From	1		Single Tickets.	
		To London Via	1st Class.	2nd Class.
	١.	Town Dillo Date Orlein Dame	Rs. a.	
MARSEILLES	4	Lyons, Dijon, Paris, Calais, Dover Lyons, Geneva, Bale, Brussels, Ostend, Dover	102 0 125 0	
Darwaras] ‡		137 0	
Brindisi	1 7	Foggia, Bologna, Turin, Dijon, Paris, Calais, Dover Foggia, Naples, Rome, Venice, Milan, Paris, Calais,	137 0	80 V
83	1	Dover	191 0	132 0
íi.	1	Foggia, Naples, Florence, Genoa, Nice, Marseilles,	101 0	102 0
33	4	Lyons, Calais, Dover	207 8	142 8
••	1	Bologna, Milan, St. Gothard, Bale, Calais, Dover, or	201 0	142 6
21.	^	Boulogne and Folkestone	143 8	98 8
Trieste	0	Cervignano, Venice, Milan, Turin, Paris, Calais, Dover	138 8	
"	č	Dervignano, Venice, Milan, Lucerne, Bale, Paris, Ca-	100 0	1 00 -
"	•	lais, Dover	136 0	94 8
,,	0	Dervignano, Venice, Milan, Simplon, Montreux, Lau-	200 0	1 01 0
<i>"</i> •	1	sanne, Paris, Calais, Dover	134 0	94 0
**	0	Cervignano, Venice, St. Gothard, Lucerne, Calais or	202 0	""
•-	- 1	Boulogne and Folkestone	135 12	95 5
55	0	Cervignano, Milan, Como, Lucerne, Mayence, Rhine.		""
==	- 1	steamer to Bonn, railway to Cologne, Calais, Dover	· 140 4	95 12
;,] (Forz, Villah, Munich, Cologne, Ostend, Dover	120 8	77 8
VENICE	1	Milan, Arona, Gravellona, Simplon, Villeneuve, Mon-		'
•	L L	treux, Paris, Calais, Dover	121 10	85 4
**		Verona, Milan, Turin, Paris, Calais, Dover	125 12	88 0
,,	· · I	Milan, Como, St. Gothard, Laon, Calais and Dover,		!
	- 1	or Boulogne and Folkestone	123 8	86 12
,,	1	Milan, Como, St. Gothard, Lucerne, Paris, Calais,		1
GENOA	١.	Dover	124 8	
	•	Turin, Paris, Calais, Dover	109 0	75 8
**	1	Milan, Como, Lucerne, Calais, and Dover or Bolougne,		
	١.	Folkestone	112 0	
**	}	Milan, St. Gothard, Bale, Paris, Calais, Dover	119 0	- 83 0
"	,	Milan, St. Gothard, Mayence, Rhine steamer to Bonn, Cologne, Brussels, Calais		00 0
; ,	11	Milan, Novara, Simplon, Montreux, Lausanne, Paris,	121 8	82 8
"	.			== 10
;;	1	Mentone, Nice, Marseilles, Lyons, Paris, Calais, Dover	111 0	
NAPLES	1		131 12	
,,`]	Rome, Florence, Genoa, Turin, Paris, Calais, Dover	134 0 159 0	
,,			167 8	
,,	:	Louis, Plotence, Millin, St. Hothard Reilwess Dale	701 9	110 0
			144 0	99 0
;;		Rome, Bologna, Venice, Verona, St. Gothard Lucarna	144 O	1. 55
	- 1	Paris, Calais, Dover	165 0	114 0

Indian Train Service.

The distances and railway fares from Bombay to the principal centres of other parts of India are as follow:—

	Miles.	1st Class.	2nd Class.
Delhi, B.B. & C.I. Railway, via new Nagda-Muttra direct route Delhi, G.I. P. Railway, via Agra Simla, via Delhi Calcutta, G.I.P. from Bombay, via Jubbulpore & Allahabad.	865 (28 hours) 957 (28 hours) 1,137	Rs. a. 86 4 66 4	Rs. a. 33 3 3 3 52 11
Calcutta, G. I. P. from Bombay, via Nagpur Madras, G. I. P. from Bombay, via Raichur Lahore, via Delhi	1,349 1,223 794 1,162	99 1 91 1½ 68 6 94 2	49 9 45 9½ 34 4 47 2

THE SUEZ CANAL.

The Report of the Suez Canal Company for 1913 states that during the year 5,085 ships, representing a net tonnage of 20,033,884 tons passed through the Canal. This by comparison with 1912, shows a decrease of 288 ships and of 241,236 tons. This decrease is due to a marked decrease in ballast traffic, a drop of 700,000 tons, or about half of the previous year's traffic. The growth of the average tonnage of passing ships in 1913 has been a very important factor. It has risen from 3,774 to 3,940 tons—a remarkable increase on past years. The tonnage of loaded merchant ships has increased by 151,000 tons as against 1912, and 852,000 tons as against 1911. The quantity of goods transported amounts to 25,775,000 tons, a figure which exceeds all previous ones. This increase is attributed to the remarkable activity of the coal trade from Great Britain, which badly disturbed by the tribude of the 1912, is (the Report states) now in full swing once more; and larger cargoes of refined sugar from Adriatic ports, of petrol from Russia and Tunis have passed through this year than before. One of the most important lines to notice, however, is the large increase in the worked metal trade to India and the Far East, especially machinery and railway materials. This points to big developments in those regions directly affected by the Canal. Rice from China and Siam has shown big augmentations in bulk and, of course, Japan's policy of progress has increased the traffic to that country.

Improvement Schemes.—It is now officially announced that from and after January 1st, 1915, the maximum drought of water allowed to ships going through the Suez Canal which is at present 29tt. English, will be increased by 1ft., making it 30tt. English. The scheme of improvement adopted by the

The scheme of improvement adopted by the Company on the recommendation of the International Consultative Committee of Works, the British representatives on which are Sir William Matthews and Mr. Anthony Lister, is a comprehensive one, and the details suggest that it will meet the needs of the big ship.

The maximum permissible draught of ships using the Canal was 24.4 feet in 1870; in 1890 ships drawing 25.4 feet could make the passage; and during the following 24 years the increase has been at the average rate of about 1 foot every six years, thus bringing the maximum draught authorized to 29 feet.

A 40 feet Channel.—The declared policy of the Canal Company in regard to the deepening of the Canal is to offer a slightly greater depth of water than that available in ports east of Suez. It is claimed that, with the exception of Sydney, there is no eastern port which at low tide has a greater depth of water than that now provided in the Canal throughout the full length of nearly 105 miles. In any case the work in hand should meet the needs of any ship likely to be built for the eastern trade during the next few years.

When the Canal was opened in 1869 the width was 72 feet and the depth about 28 feet 2 inches. In June, 1913, the width at a depth of 32 feet 8 inches had been increased to a minimum of 147 feet 6 inches over a length of about 85 miles, and to a width of 328 feet over a distance of about 20 miles. The latest scheme makes provision for a depth of 40 feet throughout and for a widening up to 196 feet 8 inches in the south section, and the cutting of an appropriate number of sidings in the north andcentral sections, where a minimum width of 147 feet 6 inches is believed to be sufficient for the requirements of the immediate future.

The work of enlarging the capacity of the Canal presents no special difficulty on the engineering side. A good deal of sand is occasionally driven into the channel at Port Said during storms, but a remedy for this will be found in extension of the west breakwater by about 2,700 yards at a cost of over £8,000,000. The construction of this extension, which has been in hand for the past two years, is making satisfactory progress. The Suez Roads are being adequately dredged in accordance with an agreement between the Egyptian Government and the Company.

The Canal in war time.—On October 22, 1914, the British Government issued a notification in the following terms to the representatives of foreign maritime Powers in London, and asked them to communicate it to their Governments:

"Since the outbreak of war certain ships of enemy countries have remained in the Suez Canal.

"Some of these vessels were detained by the Egyptian Government on account of hostile acts committed in the Canal; some because there was reason to apprehend that they contemplated hostile acts; others, though perfectly free, have refused to leave the Canal in spite of the offer of a free pass, thus disclosing their intention to use the ports of the Canal merely as ports of refuge, a measure which is not contemplated by the Suez Canal Convention.

"His Majesty's Government do not admit that the Conventional right of free access and use of the Canal enjoyed by merchant vessels implies any right to make use of the Canal and its ports of access for an indefinite time to escape capture, since the obvious result of permitting any such course must be greatly to incommode and even to block the use of the ports and Canal by other ships, and they are consequently of opinion that the Egyptian Government are fully justified in the steps which they are taking to remove from the Canal all enemy ships which have been long enough in the Canal ports to show clearly that they have no intention of departing in the Canal and its ports to a use which is inconsistent with the use of the Canal in the ordinary way by other shipping."

Travel in India.

Twenty years ago, a tour in India was possible the ancient Moslem capital of the Province, only to the wealthy, the leisured and those who had friends in the country. The cost of the journey was very high, the methods of transportation were very slow; and the faci-lities for travel were so indifferent that it was a bold man who consigned himself to the mercies of the country without a sheaf of letters of introduction. Now the mail which is posted in London on Friday night, reaches Bombay in thirteen and a half days, and the passenger can travel by the same route and with the same speed as the letter sacks. A dozen lines have covered the sea route between Europe and India and Ceylon with a plexus of regular services. The Indian Railways provide facilities on the trunk lines unsurpassed by the trains-de-luze of Europe, and the Indian hotel has grown into a really comfortable carayan-

In the touring season, which extends from November to March, there is the attraction of a perfect climate. It is never very hot; of a perietic climate. It is never very not; in the North indeed its really cool, it is always fine and fresh and bracing. If there is one country in the world to which that clusive term applies, here we have at the season when the tourist arrives the real "Indian summer."

Then there is its inflicts project. Variable is: the tourist arrives the real. Imman summer. Then there is its infinite variety. India is in no sense a nation and never will be. Its peoples are wide as the Poles asunder, each has its own art, its own architecture, its own customs and its own civilisation. A certain supersidal reagmiliance wins through each: henceth ficial resemblance runs through each; beneath lies a never-ending variety which age cannot wither nor custom stale.

The Grand Tour .- People coming to India for the first time so often ask:—"Where shall I go?" Well, wherever else the tourist may go, whatever else he should leave out, he should omit nothing on The Grand Tour. It is the foolish custom nowadays to sneer at those who foolish custom nowadays to sneer at those who follow the beaten tracks, but the visitor who shuns any part of the orthodox journey across India misses what nothing else can repay. Bombay is by far the most convenient point of departure, for here "the world end steamers wait," here is one of the finest cities in the property and here the traveller can here. British Empire, and here the traveller can best

the ancient Mosiem capital of the Province, containing fine examples of Mahomedans and Jain architecture; thence to Abu for the famous Jain temples of Dilwara, and on to Ajmere, Jaipur and Agra. The other by the Great Indian Peninsula Railway carries the tourist over the Western Chats by a superb mountain railway to Gwallor, whose rock forteen rises like us durch bettlebile, from rock fortress rises like a giant battleship from the plain, and so on to Agra. Of the glories of the Taj Mahal, Agra Fort, and the deserted city of Katehpur Sikri it were supererogatory to speak. Another easy stage leads to Delhi, that amazing collection of cities, dominated by the little Ridge where British valour kept by the fittle Kinge where British valuar kept the mutinous hordes at bay, and finally drove them from the city by a feat of arms unsurpassed in listory. Then from Delhi, the East Indian line leads comfortably to Benares, Lucknow and Calcutta, with the opportunity of an excursion to Cawnpore, if the spirit moves. The great charm of the Grand Tour is that it reveals the best that India can show. This route has the additional advantage that it fits in with any digressions which the time and purse of the traveller may permit. No one who can spare the time should fail to push northwards from Delhi to Peshawar, where the flower of the army keeps watch and ward over the Khyber, and up the dread Pass to the cyrie where the fort of Ali Marid bars the way to all invaders. Calcutta is the best starting point for Darjeeling, though unfortunately the magnificent mountain panorama visible from there is often obscured at this season by mists. Then from Calcutta two alternatives open. A fine service of mail steamers leads to Burma, and one of the unforgettable memories of the East is a voyage down the Irrawaddy from Bhamo or Mandalay to Prome. Again. either direct from Calcutta, or via Burma, is an easy route to Madras, and by way of Madura and Trichinopoly, with their peerless Hindu temples, back to Bombay, or on through Tuticorin to Colombo. But indeed the possibilities of expanding this tour are endless. Bombay is the best centre for the rock temples of Elephanta, Kenheri, Karli, Ellora and Ajanta. Calcutta is only a short distance from Puri, the one Indian temple British Empire, and nere the traveller can best complete his outfit and arrangements. From Bombay stretch northwards the two great trunk lines of India. One, the Bombay, Barodal index of India and Central India Railway, leads through the pleasant garden of Gujarat to Ahmedabad, run to the tea gardens of Assam.

Specimen Tours

A number of specimen tours in India are given below. They are taken from one of the publications of Thos. Cook and Son, from whom further information may be obtained. The traveller

will also find he can obtain assistance from the principal Shipping Agents and Railway Companies, or from Messrs. Cox & Co., Messrs. Grindlay & Co., and Messrs King, King & Co.

	1st Class.	2nd Class Rail, 1st Class Steamer.
•		
FROM BOMBAY TO CALCUTTA.	Rs. a.	Rs. a.
Via the North-West Provinces to Calcutta (including side trip from Calcutta to Darjeeling).		
TOUR 1.—From Bombay per B. B. & C. I. Railway via Ahmedabad, Abu Road (for Mount Abu), Ajmer, Jaipur, Delhi, Agra, Cawnpore, Lucknow and Benares to Calcutta, thence to Darjeeling, and back to Calcutta	209 9	104 15
TOUR II.—From Bombay per G. I. P. Railway via Itarsi, Gwallor, Agra, Delhi, Tundla Junction, Cawnpore, Lucknow and Benares to Calcutta, thence to Darjeeling, and back to Calcutta	212 13	106 9
FROM BOMBAY TO COLOMBO.		
Via the North-West Provinces, Calcutta and Southern India to Colombo (including side trip from Calcutta to Darjeeling).		
TOUR III.—From Bombay as in Tour No. I (via B.B. & C. I. Ry., Jaipur and the North-West Provinces) to Calcutta side trip to Danjeeling and back to Calcutta, thence via Khurda Road, for Puri (Juganath), Madras, Tanjore, Trichinopoly, Madura, Danushkodi and Talaimannar to Colombo	328 4	174 14
Tour IV.—From Bombay as in Tour No. II (via G. I. P. Ry., Itarsi, Agra and the North-West Provinces) to Calcutta, side trip to Darjeeling and back to Calcutta, thence as in Tour No. III to Colombo (via Southern India)	331 7	176 7
Burma and Southern India.		
Tour V.—From Bombay as in Tour No. I (via B. B. & C. I. Ry., Jaipur and the North-West Provinces) to Calcutta, side trip to Darjeeling and back to Calcutta, thence British India Steamer to Rangoon, Rail to Mandalay. Irrawaddy Steamer to Prome, Rail to Rangoon: British India Steamer to Madras, Rail via Tanjore, Trichinopoly, Madura to Danushkodi; Steamer to Talaimannar and Rail to Colombo	512 1	376 7
TOUR VI.—From Bombay as in Tour No. II (via G. I. P. Ry., Itarsi, Agra and the North-West Provinces) to Calcutta, thence as in Tour No. V to Colombo	515 4	378 1
FROM BOMBAY TO RANGOON.	1	
Via the North-West Provinces and Calcutta to Rangoon (including a tour in Burma, also including a side trip from Calcutta to Darjeeling).		
TOUR VII.—From Bombay as in Tour No. I (via B. B. & C. I. Ry., Jalpur and the North-West Provinces) to Calcutta side trip to Darjeeling and back to Calcutta, thence British India Steamer to Rangoon, Rail to Mandalay, Irrawaddy Steamer to Prome, Rail to Rangoon	382 5	260 9
TOUR VIII.—From Bombay as in Tour II (via G. I. P. By., Itarsi, Agra and the North-West Provinces) to Calcutta, side trip to Darjeeling and back to Calcutta, thence British India Steamer to Rangoon. Rail to Mandalay, Irrawaddy Steamer to Prome, Ball to Rangoon.	385 8	262 3

· · · · · · · · · · · · · · · · · · ·	1st Class.	2nd Ciass Rail, 1st Class Steamer.
FROM CALCUTTA TO BOMBAY.	Rs. a.	Rs. a.
Via the North-West Provinces.		1
TOUR IX.—From Calcutta via Benares, Lucknow, Cawnpore, Tundla, Agra, Delhi, Rewari, Jaipur, Ajmer (for Udaipur), Abu Road (for Mt. Abu), Ahmedabad and Baroda to Bombay	143 2	71 11
FOUR X.—From Calcutta via Benares, Moghal Serai, Cawnpore, Tundla.	120 -	
Agra, Delhi, Rewarl, Jaipur Ajmer (for Udaipur), Abu Road (for Mt. Abu) Ahmedabad and Baroda to Bombay	133 14	67 1
FOUR XI.—From Calcutta via Benares, Moghal Serai, Cawnpore, Tundla, Agra, Gwalior and Itarsi to Bombay.		61 2
FOUR XII.—From Calcutta via Benares, Moghal Serai, Cawnpore, Delhi, Muttra, Agra, Gwalior and Itarsi to Bombay	133 8	66 14
CIRCULAR TOUR FROM CALCUTTA.		
FOUR XIII.—From Calcutta via Benares, Lucknow, Cawnpore, Tundla, Agra, Bandikui, Jaipur, Delhi, and Allahabad to Calcutta	167 7	83 13
Extensions, Via Southern India to Colombo.		
FOUR XIV.—From Bombay via Poona, Hyderabad, Wadi, Raichur, Madras, Tanjore, Trichinopoly, Madura, Danushkodi, and Talaimannar to Colombo FOUR XV.—From Bombay via Poona, Hyderabad, Wadi, Guntakal, Bangalore, Erode, Trichinopoly, Madura, Danushkodi, and Talai-	133 7	74 10
mannar to Colombo	125 7	70 8
Extensions to above Tours.	•	
From Ajmer to Udaipur and return From Abu Road to Mount Abu and return, one seat in Tonga (This excur-	31 5	15 10
sion is strongly recommended, the scenery being very beautiful) From Delhi to Lahore and return via Umbalia and Amritsar From Delhi via Bhatinda, Ferozenore to Lahore, returning via Amritsar	7 0 41 12	20 14
Umballa to Delhi From Calcutta to Darjeeling and return (14 days) From Colombo to Kandy and return From Kurda Road to Puri (Jagganath and return)	51 3 66 7 9 0	25 9 33 4 6 0 2 10

(All fares subject to change without previous notice.)

An Indian Glossary.

ABKARI.—Excise of liquors and drugs.

AIN.—A timber tree, TERMINALIA TOMENTOSA.

AIN-I-AKBARI.—A comprehensive account of India under the Mughal Emperer Akbar, (compiled in 1590 by Abul Fazl.)

AMIL.—A subordinate executive official under native rule; in Sind the name is still applied to Hindus of the clerical class.

ANICUT.—A dam or weir across a river for irrigation purposes, Southern India.

AUS.—The early rice crop, Bengal; syn, Ahu, Assam.

AVATAR.—An incarnation of Vishnu.

BABUL.—A common thorny tree, the bark of which is used for tanning, ACACIA ARABICA.

BAGHLA.—A native boat. (Buggalow).

BAIRACI.—A. Hindu religious mendicant.

BAJRA.—The bulrush millet, a common food-grain, PENNISETUM TYPHOIDEUM; syn. cambu, Madras.

BAND.—A dam or embankment. (Bund.)
BANDH.—A dam. (Bund.)

BANYAN.—A species of fig-tree, FIGUS INDICA.

BASTI.—(1) A village, or collection of huts (2) A Jain temple, Kanara.

BATTA.—Lit. 'discount,' and hence allowances by way of compensation.

BAZAR.—(1) A street lined with shops, India proper; (2) a covered market, Burma.

BER.—A thorny shrub bearing a fruit like a small plum, ZIZYPHUS JUJUBA.

BEWAR.—Name in Central Provinces for shifting cultivation in jungles and hill-sides; specification, but the contract of the co

BHADOI.—Early autumn crop, Northern India, reaped in the month Bhadon.

BHANG.—The dried leaves of the hemp plant, CANNABIS SATIVA, a narcotic.

BHANWAR.-Light sandy soil; syn, bhur.

BHARAL.—A Himalayan wild sheep, Ovis NAHURA.

BHUSA .- Chaff, for fodder.

BIDRI.—A class of ornamental metalwork, in which blackened pewter is inlaid with silver, named from the town of Bidar, Hyderabad.

BIGHA.—A measure of land, varying widely; the standard bigha is generally five-eighths of an acre

BLACK COTTON SOIL.—A dark-coloured soil, very retentive of moisture, found in Central and Southern India.

BOARD OF REVENUE.—The chief controlling revenue authority in Bengal, the United Provinces and Madras.

Bor.—A thorny tree producing a fruit like a small plum, Zizyphus Jujuba.

BRINJAL.—A vegetable, SOLANUM MELON-GENA; syn. egg-plant.

BUNDER, or bandar.—A harbour or port.

CADJAN.—Palm leaves, used for thatch.

CHABUTRA.—A platform of mud or plastered brick, used for social gatherings, Northern India.

CHADAR.—A sheet worn as a shawl by men, and sometimes by women. (Chudder.)

CHAITYA .- An ancient Buddhist chapel.

CHAMPAK.—A tree with fragrant blossoms, MICHELIA CHAMPACA.

CHAPATI.—A cake of unleavened bread. (Chaupatti.)

CHAPRASI.—An orderly or messenger Northern India; syn. pattawala, Bombay; peon, Madras.

CHARAS.—The resin of the hemp plant, CANNABIS SATIVA, used for smoking.

CHAUDHRI.—Under native rule, a subordinate revenue official; at present the term is applied to the headman or representative of a trade guild.

CHAUKIDAR.—The village watchman and rural policeman.

CHAUTH.—The fourth part of the land revenue, exacted by the Marathas in subject territories.

CHELA.—A pupil, usually in connexion with religious teaching.

CHHAONI.—A collection of thatched huts or barracks; hence a cantonment.

Синаткі.—A dome or cupola; hence a domed building such as a cenotaph.

CHIEF COMMISSIONER.—The administrative head of one of the lesser Provinces in British India.

CHIKOR.—A kind of partridge, CACCABIS

CHINAR.—A plane tree, PLATANUS ORIEN-TALIS.

CHINKARA.—The Indian gazelle, GAZELLA BENNETTI, often called ravine deer.'

CHITAL.—The spotted deer, CERVUS AXIS.

CHOLAM.—Name in Southern India for the

CHOLAM.—Name in Southern India for the large millet, Andropogon Sorghum; syn. jowar.

CHOLL.—A kind of short bodice worn by women.

CHUNAM, chuna.—Lime plaster.

CIRCLE.—The area in charge of—(1) A Conservator of forests; (2) A Postmaster or Deputy Postmaster-General; (3) A Superintending Engineer of the Public Works Department.

CIVIL SURGEON.—The officer in medical charge of a District.

COGNIZABLE.—An offence for which the culprit can be arrested by the police without a warrant.

COLLECTOR.—The administrative head of a District in Regulation Provinces corresponding to the Deputy Commissioner in non-regulation areas.

COMMISSIONER.—(1) The officer in charge of a Division or group of Districts; (2) the head of various departments, such as Stamps Exciso, etc.

CONSERVATOR.—The Supervising Officer in charge of a Circle in the Forest Department.

COUNCIL BILLS.—Bills or telegraphic transfers drawn on the Indian Government by the Secretary of State in Council.

COUNT.—Cotton yarns are described as 20's, 30's, etc., counts when not more than a like number of hanks of 840 yards go to the pound avoirdupois.

COURT OF WARDS.—An establishment for managing estates of minors and other disqualified persons.

CRORE, karor.—Ten millions.

DACOIT, DAKAIT.—A member of a gang of robbers.

DAFFADAR.—A non-commissioned native officer in the army or police.

DAH OR DAO.—A cutting instrument with no point, used as a sword, and also as an axe, Assam and Burma.

DAKAITI, DACOITY.—Robbery by five or more persons.

DAL.—A generic term applied to various pulses.

DAM.—An old copper coin, one fortieth of a rupee.

DARBAR. (1)—A ceremonial assembly, especially one presided over by the Ruler of a State hence (2) the Government of a Native State.

DARGAH.—A Mahomedan shrine or tomb of a saint.

DARI. Dhurrie—A rug or carpet, usually of rotton, but sometimes of wool.

DAROGHA.—The title of officials in various departments; now especially applied to subordinate controlling Officers in the Police and Jail Departments.

DARWAN .- A door-keeper.

DARWAZA.—A gateway.

DEBOTTAR.—Land assigned for the upkeep of temples or maintenance of Hindu worship.

DEODAR.—A cedar, CEDRUS LIBANI OF C. DEODARA.

DEPUTY COMMISSIONER—The Administrative head of a District in non-regulation areas corresponding to the Collector in Regulation Provinces.

DEPUTY MAGISTRATE AND COLLECTOR.—A subordinate of the Collector, having executive and judicial (revenue and criminal) powers; equivalent to Extra Assistant Commissioner in non-regulation areas.

DESAI.—A revenue official under native (Maratha) rule.

DESH.—(1) Native country; (2) the plains as opposed to the hills, Northern India; (3) the plateau of the Deccan above the Ghats.

DESHMUH.—A petty official under native Maratha) rule.

DEVA .- A deity.

DHAR.—A tree, BUTEA FRONDOSA, with brilliant salmon-coloured flowers used for dyeing, and also producing a gum; syn. palas, Bengal; Chhiul. Central India.

DHARMSALA.—A charitable institution provided as a resting-place for pilgrims or travellers, Northern India.

DHATURA.—A stupefying drug, DATURA FASTUOSA.

DHENKLI.—Name in Northern India for the lever used in raising water; syn. picottah.

DHOTI.-The loincloth worn by men.

DISTRICT.—The most important administrative unit of area.

DIVISION.—(1) A group of districts for administrative and revenue purposes, under a Commissioner; (2) the area in charge of a Deputy Conservator of Forests, usually corresponding with a (revenue) District; (3) the area under a Superintendent of Post Offices; (4) a group of (revenue) districts under an Executive Engineer of the Public Works Department.

DIWAN.—The chief minister in a Native State.

DIWANI.—Civil, especially revenue, administration; • now used generally in Northern India of civil justice and Courts.

DOAB.—The tract between two rivers, especially that between the Ganges and Jumna.

DRY CROP.—A crop grown without artificial irrigation.

DRY RATE.—The rate of revenue for unirri-

DUN .- A valley, Northern India.

gated land.

ERRA.—A small two-wheeled conveyance drawn by a pony, Northern India.

EXTRA ASSISTANT COMMISSIONER.—See Deputy Magistrate and Collector.

FAMINE INSURANCE GRANT.—An annual provision from revenue to meet direct famine expenditure, or the cost of certain classes of public works, or to avoid debt.

FARMAN.—An imperial (Mughal) order or grant.

FAUJDARI.—Under native rule; the area under a Faujdar or subordinate governor; now used generally of Magistrates' Criminal Courts.

FINANCIAL COMMISSIONER.—The chief controlling revenue authority in the Punjab, Burma and the Central Provinces.

GADDI, Gadi.—The cushion or throne of (Hindu) royalty.

GANJA.—The unfertilised flowers of the cultivated female hemp plant, CANNABIS SATIVA, used for smoking.

GAUR.—Wild cattle, commonly called 'bison', Bos GAURUS.

GAYAL.—A species of wild cattle, Bos Frontalis, domesticated on the North-East Frontier; syn. mithan.

GHAT, Ghaut, (1) A landing-place on a river; (2) the bathing steps on the bank of a tank; (3) a pass up a mountain; (4) in European usage, a mountain range. In the last sense especially applied to the Eastern and Western Ghats.

GHATWAL.—A tenure-holder who originally held his land on the condition of guarding the neighbouring hill passes (ghats), Bengal.

GHI, Ghee,-Clarified butter.

GINGELLY.—An oilseed, SESAMUM INDICUM; syn. til.

GOPURAM.—A gateway, especially applied to the great temple gateways in Southern India.

GORAT.-Light alluvial soil, Gujarat.

GOSAIN, Goswami.—A (Hindu) devotee; lit. one who restrains his passions.

GOSHA.—Name in Southern India for 'caste' women; lit. 'one who sits in a corner'; syn. parda.

GRAM.—A kind of pea, CICER ARIETINUM. In Southern India the pulse DOLICHOS BIFLORUS is known as horse gram.

GUARANTEED.—(1) A class of Native States in Central India; (2) A class of railways.

Gur, Goor.—Crude sugar; syn. jaggery, southern India; tanyet, Burma.

GURAL.—A Himalayan goat antelope, CEMAS

GURU.—(1) A Hindu religious preceptor;
(2) a schoolmaster, Bengal.

HAKIM.—A native doctor practising the Mahomedan system of medicine.

HALALKHOR.—A sweeper or scavenger; lit. one to whom everything is lawful food.'

HALL.—Current. Applied to coin of Native States, especially Hyderabad.

HILSA .- A kind of fish, CLUPEA ILISHA.

HTI.—An iron pinnacle placed on a pagoda in Burma.

HUKKA.—The Indian tobacco pipe, incorrectly spelt "hookah."

IDGAH.—An enclosed place outside a town where Mahomedan services are held on festivals known as the Id., etc.

INAM.—Lit. 'reward'. Hence land held revenue free or at a reduced rate, often subject to service.

INUNDATION CANAL.—A channel taken off from a river at a comparatively high level, which conveys water only when the river is in flood.

JAGGERY, jagri.—Name in Southern India for crude sugar; syn. gur.

JAGIR.—An assignment of land, or of the revenue of land held by a Jagirdar.

JEMADAR.—A native officer in the army or police.

JHL.—A natural lake or swamp, Northern India; syn. bil, Eastern Bengal and Assam.

JIHAD.—A religious war undertaken by Musalmans.

JIRGA.—A council of tribal ciders, North-West frontier.

JOWAR.—The large millet, a very common food-grain, ANDROPOGON SORGHUM, or SORGHUM VULGARE; syn. cholam and jola, in Southern India.

JUDICIAL COMMISSIONER.—An officer exercising the functions of a High Court in the Central Provinces, Oudh, and Sind.

KACHERI, kachabri.—An office or office building, especially that of a Government official.

KAKAR.—The barking deer, CERVULUS MUNT-JAC.

KALAR, kallar.—Barren land covered with salt or alkaline efflorescences Northern India.

KAMARBAND, Cummerbund.—A waistcloth, or helt.

KANGAR.—A kind of portable warming-pan, carried by persons in Kashmir to keep themselves warm.

KANKAR.—Nodular limestone, used for metalling roads, as building stones or for preparation of lime.

KANS.—A coarse glass which spreads and prevents cultivation especially in Bundelkhand, SACCHARUM SPONTANEUM.

KANUNGO .- A revenue Inspector.

KARAIT.—A very venomous snake, Bungarus candidus of caeruleus.

KARBHARI .-- A manager.

KAREZ.—Underground tunnels near the skirts of hills, by which water is gradually led to the suriace for irrigation, especially in Baluchistan.

KARKUN.—A clerk or writer, Bombay.

KARMA.—The doctrine that existence is

KARMA.—The doctrine that existence is conditioned by the sum of the good and evil actions in past existences.

KARNAM.—A village accountant, Madras; syn. patwari.

KAZI.—Under native rule, a judge admiletting Mahomedan law. Under British rule, the kazi registers marriages between Mahomedans and performs other functions, but has no powers conferred by law. KHALASI.—A native fireman, sailor, artilleryman, or tent-pitcher.

KHALSA.—Lit. pure.' (1) Applied especially to themselves by the Sikhs, the word Khalsa being equivalent to the Sikh community: (2) land directly under Government as opposed to land allenated to grantees, etc., Northern India.

KHARAB.—A gravelly poor soil, Bombay.

KHARIP.—The harvest reaped in late autumn. KHAS.—Special, in Government hands. Khas tahasildar, the manager of a Government estate.

KHASADAR.—Local levies of foot soldiers, Afghanistan.

KHAS-KHAS, Kus-Nus.—A grass with scented roots, used for making screens which are placed in doorways and kept wet to cool a house by evaporation, Andropogon Mulicatus.

KHEDDA, kheda.—A stockade into which wild elephants are driven; also applied to the operations for catching.

KHILAT .- A robe of honour.

KHUTBA.—The weekly prayer for Mahomedans in general and for the reigning sovereign in particular.

KINCOB, kamkhwab.—Silk textiles brocaded with gold or silver.

KODALI.—The implement like a hoe or mattock in common use for digging; syn. mamuti, Southern India.

Kos.—A variable mensure of distance, usually estimated at about two miles. The distance between the kos-minars or milestones on the Mughal Imperial roads averages a little over 2 miles, 4 furlongs, 150 yards,

KOTHI .- A large house.

KOTWAL.—The head of the police in a town, under native rule. The term is still used in Hyderabad and other parts of India.

KOTWALI.—The chief police station in a head-quarters town.

KULKARNI.—A village accountant, Bombay, Deccan; syn. patwari.

KYAUNG.—A Buddhist monastery, which always contains a school, Burma.

LAKE, lac.-A hundred thousand.

LAMBARDAR.—The representative of the cosharers in a zamindari village, Northern India. LANGUR.—A large monkey, Semnopithecus entellus.

LAT.—A monumental pillar. LATRITE.—A vesicular material formed of disintegrated rock, used for buildings and making roads; also probably valuable for the production of aluminium.

LINGAM.—The phallic emblem, worshipped as the representative of Shiva.

LONGYI.-A waistcloth, Burma.

LOTA.—A small brass water-pot.

LUNGI, loongi-(1) A turban; (2) a cloth worn by women.

MADRASA.—A school especially one for the higher instruction of Mahomedans.

MAHAJAN.-A native merchant or banker,

MAHAL.—(1) formerly a considerable tract of country; (2) now a village or part of a village for which a separate agreement is taken for the payment of land revenue; (3) a department of revenue, e.g. right to catch elephants, or to take stone.

MAHALKARI.—A subordinate revenue official, Bombay.

MAHANT.—The head of a Hindu conventual establishment.

MAHARAJA.—A title borne by Hindus, ranking above Raja.

MAHSEER, mahasir.—A large carp, BARBUS TOR (lit. 'the big-headed').

MAHUA.—A tree, BASSIA LATIFOLIA, producing flowers used (when dried) as food or for distilling liquor, and seeds which furnish

MAIDAN.—An open space of level ground; the park at Calcutta.

MAJOR WORKS.—Irrigation works for which separate accounts are kept of capital, revenue, and interest.

MAKTAB .-- An elementary Mahomedan school.

MALGUZAR (revenue payer).—(1) The term applied in the Central Provinces to a co-sharer in a village held in ordinary proprietary tenure, (2) a cultivator in the Chamba State.

MAMLATDAR.—The officer in charge of a taluka, Bombay, whose duties are both executive and magisterial; syn. tahasildar.

MANDAP, or mandapam.—A porch or pilared hall, especially of a temple.

MARKHOR.—A wild goat in North-Western India, CAPRA FALCONERI.

MASJID.—A mosque. Jama Masjid, the principal mosque in a town, where worshippers collect on Fridays.

MASNAD.—Seat of state or throne, Mahomedan; syn. gaddi.

MATH.—A Hindu shrine or conventual establishment.

MAULVI.—A person learned in Muhammadan law.

MAYA .- Sanskrit term for delusion.

MELA .-- A religious festival or fair.

MIHRAB.—The niche in the centre of the western wall of a mosque.

MIMBAR.—Steps in a mosque, used as a pulpit. MINAR.—A pillar or tower.

MINOR WORKS.—Irrigation works for which regular accounts are not kept, except, in some cases, of capital.

MONSOON.—Lit. 'season,' but generally applied to the rainy season, or to the regular moisture-laden current of air prevailing at certain seasons.

MUFASSAL, mofussil.—The outlying parts of a District, Province or Presidency, as distinguished from the head-quarters (Sadr).

MUKADDAM, muccadum.—A representative or headman.

MURHTAR (corruptly mukhtiar).—A class of legal practitioner.

MUKHTIARKAR.—The officer in charge of a taluka, Sind, whose duties are both executive and magisterial; syn. tahasildar.

MUNG, mug.—A pulse, PHASEOLUS BADIATUS: syn. mag, Gujarat.

MUNSIF.—Judge of the lowest Court with civil jurisdiction.

MURUM, moorum.—Gravel, used for metalling roads.

NAGARKHANA, nakkarkhana.—A place where drums are beaten.

NAIB .- Assistant or Deputy.

NAIK.—A leader, hence: (1) a local chieftain, in Southern India; (2) a native officer of the lowest rank (corporal) in the Indian army.

NAT .-- A demon or spirit, Burma.

NAWAB.—A title borne by Musalmans, corresponding roughly to that of Raja among Hindus.

NAZAR, nazarana.—A due paid on succession or on certain ceremonial occasions.

NET ASSETS.—(1) In Northern India, the rent or share of the gross produce of land taken by the landlord; (2) in Madras and Lower Burma, the difference between the assumed value of the crop and the estimate of its cost of production.

NEWAR.—Broad tape woven across bedsteads instead of iron slats.

NGAPI.—Pressed fish or salted fish paste, largely made and consumed in Burma.

NILGAI.—An antelope, Boselaphus Trago-CAMELUS.

NIM, neem.—A tree, MELIA AZADIRAGHTA, the berries of which are used in dyeing.

NIZAM.—A title borne by the ruler of Hyderabad State.

NIZAMAT.—A sub-division of a Native State, corresponding to a British District, chiefly in the Punjab and Bhopal.

NON-COGNISABLE.—An offence for which the culprit cannot be arrested by the police without

a warrant.

NON-OCCUPANCY TENANTS.—A class of tenants with few statutory rights, except in Oudh, beyond the terms in their leases or agreements.

NON-REGULATION.—A term formerly applied to certain Provinces to show that the regulations of full code of legislation was not in force in them.

NULLAH, NALA.—A ravine, watercourse, or drain.

OCCUPANCY TENANTS.—A class of tenants with special rights in Central Provinces, in United Provinces.

PADDY.-Unhusked rice.

PAGA.—A troop of horses among the Marathas.

PAGI.—A tracker of strayed or stolen animals.

PAIGAH.—A tenure in Hyderabad State.

PAIK.—(1) A foot soldier; (2) in Assam formerly applied to every free male above sixteen years.

PALKI.—A palanquin or litter.

PAN .- The betel vine, PIPE BETLE.

PANCHAMA.-Low caste, Southern India.

PANCHAYAT .-- (1) A committee for management of the affairs of a caste, village, or town; (2) arbitrators. Theoretically the panchayat has five (panch) members.

PANDIT.—A Hindu title, strictly speaking applied to a person versed in the Hindu scriptures, but commonly used by Brahmans. In Assain applied to a grade of Inspectors of primary schools.

PARDA, purdah.—(1) A veil or curtain; (2) the practice of keeping women secluded; syn. gosha.

PARDESI.—Foreign.

PARGANA.—Fiscal area or petty sub-division of a tahsil, Northern India.

PASHM.—The fine wool of the Tibetan goat. PASO .- A waistcloth.

PAT, put.-A stretch of firm, hard clay.

PATEL.—A village headman, Central and Western India; syn. reddl, Southern India, gaon-bura, Assam; padhan, Northern and Eastern

PATIDAR.—A co-sharer in a village, Gujarat.

PATWARI.—A village accountant; syn. kar-nam, Madras; kulkarni, Bombay Deccan; talati, Gujarat; shanbhog, Mysore, Kanara and Coorg; Mandal, Assam.

PESHKASH .- A tribute or offering to a superior.

PHULKARI,-An embroidered sheet; flower-work.

PICE, paisa.—A copper or brozne coin worth one farthing; also used as a generic term for money.

PICOTTAH.—A lever for raising water in a bucket for irrigation, Southern India; syn. dhenkul or dhenkuli, or dhikli, Northern India. PIPAL.—A sacred tree, FIGUS RELIGIOSA.

PIR.--- A Mahomedan religious teacher or saint.

PLEADER.—A class of legal practitioner. PONGYI .-- A Buddhist monk or priest, Burma.

POSTIN, poshteen.—A coat or rug of sheep-skin tanned with the wool on, Afghanistan.

PRANT.—An administrative sub-division in Maratha States, corresponding to a British District (Baroda) or Division (Gwalior); also in Kathiawar.

PRESIDENCY .- A former Division of British India.

PROTECTED.—Forests over which a considerable degree of supervision is exercised, but less than in the case of 'reserved' forests.

PROVINCE.—One of the large Divisions of British India.

Puja .- Worship, Hindu.

PUNDIT .- See Pandit.

PURANA.—Lit. 'old' Hindi; (1) applied to certain Hindu religious books, (2) to a geological 'group'; (3) also to 'punch-marked' coins.

PUROHIT (a) -.. A domestic chaplain or spiritual guide, Hindu.

Pwz.—An entertainment, Burma.

RABI.-The harvest reaped in the spring.

RAGI .- A small millet used as a food-grain Southern India; syn. marua.

RAJA.—A title borne by Hindus and occasionally by Musalmans, corresponding roughly to that of Nawab which is peculiar to Musalmans.

RANA .-- A title borne by some Rajput chiefs. equivalent to that of Raja.

RANI .- The wife or widow of a Raja.

RAO .- A title borne by Hindus, either equivalent to, or ranking below, that of Raja.

REGAR.—Name for a black soil in Central and Southern India, which is very retentive of moisture, and suitable for growing cotton.

REGULATION.—A term formerly applied to certain provinces to show that the Regulations or full code of legislation applied to them.

REH.—Saline or alkaline efflorescences on the surface of the soil, Northern India.

Reserved.—Forests intended to be maintained permanently.

ROHU .-- A kind of fish, LABEO ROHITA.

RYOTWARI.—The system of tenure in which land revenue is imposed on the actual occupants of holdings.

SADR, sudder .- Chief (adjective). Hence the headquarters of a District; formerly applied to the Appellate Courts.

SAL.—A useful timber tree in Northern India. SHOREA ROBUSTA.

SAMBAR .- A deer, CERVUS UNICOLOR; syn. jarau.

SAN .- Bombay hemp, CROTALARIA JUNCEA. SANAD.—A charter or grant, giving its name to a class of States in Central India held under

SARI .- A long piece of cloth worn by women as a shawl.

SARKAR.—(1) The Government; (2) a tract of territory under Muhammadan rule, corresponding roughly to a Division under British administration.

SATI.-Suicide by a widow, especially on the funeral pyre of her husband.

SAWBWA .- A title borne by chiefs in the Shan States, Burma.

SEMAL or cotton tree .- A large forest tree with crimson flowers and pods containing a quantity of floss, BOMBAY MALABARICUM.

SEROW, sarau .-- A goat antelope, NEMOB-HAEDUS BUBALINUS.

SETTLEMENT.—(1) The preparation of a cadastral record, and the fixing of the Government revenue from land; (2) the local inquiry made before Forest Reserves are created; (3) the financial arrangement between the Government of India and Local Governments.

SHASTRAS .- The religious law-books of the Hindus.

Shisham or sissu.—A valuable timber tree, DALBERGIA SISSOO.

SILLADAR .- A native trooper who furnishes his own horse and equipment.

Sola .- A water-plant with a valuable pith, ARSCHYNOMENE ASPERA.

Sowar .-- A mounted soldier or constable.

STUPA or tope.—A Buddhist tumulus, usually of brick or stone, and more or less hemispherical, containing relics.

SUBAH.—(1) A province under Mahomedan rule; (2) the officer in charge of a large tract in Baroda, corresponding to the Collector of a British District; (3) a group of Districts or Division, Hyderabad.

SUEAHDAR.—(1) The governor of a province under Mahomedan rule; (2) a native infantry officer in the Indian Army; (3) an official in Hyderabad corresponding to the Commissioner in British territory.

SUB-DIVISION.—A portion of a District in charge of a junior officer of the Indian Civil Service or a Deputy Collector.

SUPERINTENDENT.—(1) The chief police officer in a District; (2) the official in charge of a hill station; (3) the official, usually of the Indian Medical Service, in charge of a Central Jail.

Syce, sais .- A groom.

TAHSII.—A revenue sub-division of a District; syn. taluka, Bombay; taluka, Madras and Mysore; township, Burma.

TAHSILDAR.—The officer in charge of a tahsil; syn. Mamlatdar, Bombay; township officer or myo-ok, Burma; mukhtiarkar, Sind; vahivatdar, Baroda. His dutles are both executive and magisterial.

TAKAVI.—Loans made to agriculturists for seed, bullocks, or agricultural improvements: syn. tagai, Bombay.

TALATI.—A village accountant, Gujarat; syn. patwari.

TALAY, or talao .-- A lake or tank.

TALUK, taluka.—The estate of a talukdar in Oudh. A revenue sub-division of a District, in Bombay, Madras and Mysore; syn. tabsil.

TALUKDAR.—A landholder with peculiar tenures in different parts of India. (1) An official in the Hyderabad State, corresponding to the Magistrate and Collector (First Talukdar) or Deputy Magistrates and Collectors (Second and Third Talukdars); (2) a landholder with a peculiar form of tenure in Gujarat.

TANK.—In Southern, Western, and Central India, a lake formed by damming up a valley; in Northern India, an excavation holding water.

TARAI.—A moist swampy tract; the term is specially applied to the tract along the foot of the Himalayas.

TARI, toddy, The sap of the date, palmyra, or occoanut palm, used as a drink; either fresh or after fermentation. In Northern India the juice of the date is called sendhi.

TASAR, tussore.—Wild silkworms, Antheraea PAPHIA; also applied to the cloth made from their silk.

TAZIA.—Lath and paper models of the tombs of Hasan and Husain, carried in procession at the Muharram festival; syn. tabut.

TEAK.—A valuable timber tree in Southern and Western India and Burma, TECTONA GRANDIS.

TELEGRAPHIC TRANSFERS .- See Council bills.

THAGI, thuggee.—Robbery after strangulation of the victim.

THAKUR.—(1) The modern equivalent of the caste name Kshattriya in some parts of Northern India; (2) a title of respect applied to Brahmans; (3) a petty chief; (4) a hill tribe in the Western Ghats.

THAMIN.—The brow-antiered deer, Burma, CERVUS ELDI.

THANA.—A police station, and hence the circle attached to it.

TIKA.—(1) Ceremonial anointing on the forehead; (2) vaccination.

TIL.—An oilseed, SESAMUM INDICUM; also known as gingelly in Madras.

TINDAL, tandel.—A foreman, subordinate officer of a ship.

TOLA.—A weight equivalent to 180 grains

(troy).
TSINE.—Wild cattle found in Burms and to

TSINE.—Wild cattle found in Burma and to the southward, Bos sondaicus; syn. hsaing and banteng.

UNIT.—A term in famine administration, denoting one person relieved for one day.

URIAL.—A wild sheep in North-Western India, Ovis VIGNEI.

USAR.—Soil made barren by saline efflorescence, Northern India.

VAHIVATDAR.—Officer in charge of a revenue sub-division, with both executive and magisterial functions, Baroda; syn. tahsildar.

VAID or baidya, Bengal.—A native doctor practising the Hindu system of medicine.

VARTL.—(1) A class of legal practitioner; (2) an agent generally.

VIHARA .- A Buddhist monastery.

VILLAGE.—Usually applied to a certain area demarcated by survey, corresponding roughly to the English parish.

VILLAGE UNION.—An area in which local affairs are administered by a small committee.

WAKE.—A Muhammadan religious or charltable endowment.

WAZIR.—The chief minister at a Mahomedan court.

WET RATE.—The rate of revenue for land assured of irrigation.

You.-A Hindu ascetic.

YUNANI.—Lit. Greek; the system of medicine practised by Mahomedans.

ZAMINDAR.—A landholder.

ZAMINDARI.—(1) An estate; (2) the rights of a landholder, zamindar; (3) the system of tenure in which land revenue is imposed on an individual or community occupying the position of a landlord.

ZANANA.—The women's quarters in a house; hence private education of women.

ZIARAT.—A Mahomedan shrine, North-Western Frontier.

ZILA .- A District.

The New Capital.

The transfer of the capital of India from of various characters and sizes and for the Calcutta to Delhi was announced at the Delhi provision of spacious parks and recreation Calcutta to Delhi was announced at the Delhi Durbar on December 12, 1611. The reasons for it were stated in despatches between the Government of India and the Secretary of State published at the time. It had long been recognised as necessary, in the interests of the whole of India, to de-provincialise the Government of India, but this ideal was unattainable as long as the Government of India was located in one Province, and in the capital of that Province-the sect of the Bengel Government of the section of the of that Province—the seat of the Bengal Government—for several months in every year. It was also desirable to free the Bengal Government from the close proximity of the Govern-ment of India which had been to the constant disadvantage of that Province. To achieve these two objects the removal of the capital from Calcutta was essential: its disadvanfrom Calcutta was essential: Its disadvantages had been recognised as long ago as 1868, when Sir Henry Maine advocated the change. Various places had been discussed as possible capitals, but Delhi was by common consent the best of them all. Its central position and situation as a railway junction, added to its historical associations, told in its favour; and, as Lord Crewe said in his despatch on the subject, "to the races of India, for whom the legends and records of the past are charged with so intense a meaning, this resumption by the Paramount Power of the seat of venerable Empire should at once enforce the con-tinuity and promise the permanency of Bri-tish sovereign rule over the length and breadth of the country.

The foundation stones of the new capital were laid by the King Emperor on December 15, 1911, when His Majesty said:—"It is my desire that the planning and designing of the public buildings to be erected will be considered with the greatest deliberation and care so that the new creation may be in every way worthy of this ancient and beautiful city." Subsequently a town-planning committee was sunsequently a town-planning committee was appointed—consisting of Captain G. S. C. Swinton, Chairman, and Mr. J. A. Brodie and E. L. Lutyens, members—to advise on the choice of a site for, and the lay-out of, the capital. With them was afterwards associated Mr. V. Lanchester. The terms of their ciated Mr. V. Lanchester. The terms of their original engagement (subsequently renewed) were stated by the Under Secretary of State to be: —"The members of the commuttee will receive their travelling and living expenses, and the following fees for a five months' engagement:—Captain Swinton, 500 guineas; Mr. Brodie, 1750 guineas; Mr. Lutyens, 1,500 guineas; The Secretary of State has also undertaken to refund to the Corporation of Liverpool the amount of Mr. Brodie's salary for the period of the absence.

provision of spacious parks and recreation grounds—To be assumed at 10 square miles for the new city and 15 square miles for the Cantonment—(e) Cost of land and the cost of executing necessary works on different sites,
(f) facility for external and internal communication, (g) Civil and Military requirements.
On the east of the Jumna they found no

suitable site. To the north of Delhi, on the west of the Juma, where the Durbar camps were pitched they found some general advantages. The area is, for example, upwind and upstream from the present city of Delhi. The ruins and remains of the Delhis of the past do not cumber the ground. While the external communications might need improvement, the tract is fairly well served by existing railways. Roads and canals and the internal communication could be made convenient communication could be made convenient without excessive expenditure, and a good deal of money has already been spent on the area. But its disadvantages were found to be overwhelming. The site is too small and much of the land is liable to flooding. Similarly the control of the land is liable to flooding. larly, the western slope of the hills to the south of Delhi the Naraiana plain was found unsuitable, mainly because it cannot be considered to be Delhi, is destitute of historical associations, and is shut out from all view of Delhi.

Southern site chosen.—The Committee finally selected a site on the eastern slopes of the hills to the south of Delhi, on the fringe of the tract occupied by the Delhis of the past.

They describe it as follows:—"Standing a little to the Delhi side of the village of Malcha, just below the hills almost in the centre of the site, and looking towards the Jumna, Shah-jahan's Delhi on the left fills the space between janan's Deini on the left his the space between the ridge and the river. Following down from the present city on the foreshore of the riverain Firoz Shah's Delhi, the site of Indra Prastha, Humayun's fort, Humayun's tomb and Nizamuddin's tomb take the eye in a con-tinuous progress to the rocky eminence on which Ghiyasuddin Tughlak creeted his for-tress city. On the right the Ial Kof. the tress city. On the right the Lal Kot, the Kuth, the Kila Rai Prithora, Siri and Jahan-panah complete the circle of the monuments panal complete the circle of the monuments of ancient Delhis. The mid space in the fore ground is filled by Safdar Jan's Mausoleum and the tombs of the Lodi dynasty, while to the left, towards Delhi, Jey Singh's gnomons and equatorial dials raise their fantastic shapes." The land chosen is free from liability to flood, has a natural drainage, and is not manworn. It is not cumbered with monuments and tombs needing reverent treatment, and the site is near the present centre of the town of Delhi.

for the period of the absence." Blue Ballary period of the absence. The there is a point of the period of the absence. The there is a point of the period of the absence. The there is a point of the period of the absence. The period of a site, they felt that the following considerations were paramount and must considerations were paramount and must receive the closest and most continual attention:—(a) Health and sanitation, (b) waters supply and irrigation supply, (c) the provision of ample room for expansion, (d) An extent of land suitable for the location of buildings in the above of land suitable for the location of buildings in the above of land suitable for the location of buildings in the above of land suitable for the location of buildings in the above of land suitable for the location of buildings in the above of land suitable for the location of buildings in the above of land suitable for the location of buildings in the above of land suitable for the location of buildings in the above of land suitable for the location of buildings in the location of buildings in the above of land suitable for the location of buildings in the location of buildings in the above of land suitable for the location of buildings in the location of buildings in the location of land suitable for the location of land suitable for the location of land suitable for the location of land suitable for the location of land suitable for the location of land suitable for the location of land suitable for the location of land suitable for the location of land suitable for the location of land suitable for the location of land suitable for the location of land suitable for the location of land suitable for land suitable for land suitable for land suitable for land suitable for land suitable for land suitable for land suitable for land suitable for land suitable for land suitable for land suitable for land suitable for land suitable for land suitable for land suitable for land suitable for land suitable for land suitable for land suitable

healthiness of the southern site, the medical | and sanitary advantages of which are over-whelming when compared with those of the mental centre and where the great stairways northern site."

Report on Northern Site.—In the same month the Town-Planning Committee presented their second report, which dealt with the northern site. This had been elicited by the fact that in December, 1912, Sir Bradford Leslie, an engineer with a distinguished Indian lessing and parks flanked by the career, had read a paper before the Indian general buildings belonging to the Viceregal section of the Royal Society of Arts in London, exists. Beyond these again, on the ridge itself, in which he set forth plans for building the will be a spacious amphitheatre to be made new capital on the northern site and producing out of the quarry from which much of the a fine water effect by a treatment of the river stones for roads and buildings may be cut. chronised with some letters and articles in the break the sky line of the ridge. To the east press in India expressing a preference for the of the forum, and below it, will be a spacious northern site. The latter voiced a natural forecourt defined by trees and linked on to attraction to the north site which the Committee themselves experienced on their first visit to Delhi, and enunciated some predelictions which the Committee had at one time tense and at right angles to it, will run the avenue thom which the Committee had at one time to the railway station. This will terminate felt and later abandoned. The Town Planing Committee, therefore, undertook to review be usiness quarters at its northern end, and in once more, and in greater detail, the arguments the Cathedral at its southern extremity. once more, and in greater detail, the arguments for, and against the northern site. They came to the conclusion that:—"The soil is poor on the northern site as compared with the southern. The southern site as compared with the southern. The southern site is already healthy and has healthy surroundings. The northern site even after expenditure on sanitary requirements will never be satisfactory. If the northern site is to be made healthy, this involves going outside the site itself and making the north to be used at all it has in places to be raised at considerable cost. There is no really suitable healthy site for a cantonment in proximity to a city on the northern site. The eximple the satisfaction and towards the Jama Masjid will form the principal business approach to place will be laid out around which will be raised at considerable cost. There is no really suitable healthy site for a cantonment in proximity to a city on the northern site. The eximple the string in the requirements to the gencies of fitting in the requirements to the limited area of the northern site endanger Imited area of the northern site enuanger the success of a lay-out as a whole and tend to make for cramping and bad arrangement. The result of placing a city on the northern site appears to the Committee to be the crea-tion of a bad example in place of a good one."

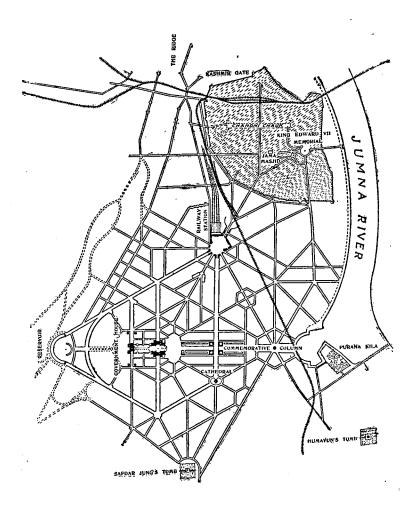
Final Town-Planning Report.—The final report of the Town-Planning Committee, with a plan of the lay-out, was dated 20th March, 1913. The central point of interest in the lay-out, which gives the motif of the whole in Covernment Horse, the Council March, 1913. The central point of interest in the lay-out, which gives the motif of the commander-in-Chief will be placed. Round whole in Government House, the Council about the viceregal estate and the forum lies Chamber and the large blocks of Secretariats. This Government centre has been given a Members of Council, the Secretaries and other position at Raisina hill near the centre of the This Government centre has been given a position at Raisina hill near the centre of the new city. Advantage is taken of the height of this hill and it is linked with the high ground behind so as to appear a spur of the ridge itself. Behind the hill a raised platform or forum would be built. This will be fianked by the large blocks of Secretariat buildings and terminated at its western end by the mass and terminated at its western end by the mass of Government House and the Council Chamber, with its wide flight of steps, portico and dome. The forum will be approached by inclined ways with easy gradients on both its north and south sides. The main access to this from the last. The axis of the main avenue east of the Secretariat buildings where a parkway width of 440 feet has been allowed. The principal avenues in addition to the main avenues are those running arapat nearly due east of Government House.

Looking from the eastern end of the forum are set, the view is towards the east. "Right and left the roadways go and weld into one the empire of to-day with the empires of the past and unite Government with the business and lives of its people."

Behind Government House to the west Jumna. This paper aroused considerable at-tention in England: and its publication syn and its tower which will be treated so as to chronised with some letters and articles in the break the sky line of the ridge. To the east

the processional route will lead down how the railway station, due south to the point where it is intersected by the main east to west axis. Here round a place will be gathered the buildings of the Oriental Institute, the Museum, the Library and the Imperial Rec rd Office. To the south-west of the railway station will lie the houses of the local administration and the residences of the European tration and the residences of the European clerks.

officials of the Government of India. To the south-west of Government House lies the club. south-west of devenment house less the club at the tract into two portions. That to the west is well adapted for a golf-course, while the eastern side is designed for a race-course, the ridge itself offering unusual facilities for locating stands and seeing the races.



Others form part of a system running from the amphitheatre to the railway station and Commander-in-Chief's residence, and from both the latter to the commemorative column, lying on the axis between Indrapat and Government House is the focal point of the roads and avenues on the parkway.

A lake which can be obtained by river treatment is shown on the plan. The lay-out has been made independent of the water effect, but the Committee think that its ultimate creation will enhance enormously the beauties and general amenities of the new capital: and it should and would become an integral portion of the design now submitted.

The report contains lengthy recommendations concerning water-supply, drainage, sevage system, parks and communications. It is imperative, it says:—"that a complete scheme or railway arrangements designed to serve the whole of the capital, both old and new, should be an essential feature of the lay-out of the Imperial City, and this important matter should not be left to be settled when it is too late to deal with it." But the expense of the proposed central station is prohibitive, and for some time it will be possible only to carry out that scheme in part, room being left for the later development of the station.

Temporary Capital.—For the use of the Government of India during the five years the building of the new capital is expected to occupy, an area has been selected along the Alipur Road, between the present civil station of Delhi and the Ridge. The early idea that many of the officials should live under canvas had to be given up, and there are now temporary offices and residences. The architecture and method of construction are similar to those adopted in the exhibition buildings are expected to outlast the transitional period for which they are intended. They will subsequently be an asset of some value, the site they occupy becoming a suburb of the capital.

becoming a suburd of the capital.

Chief Commissioner Appointed.—On October 1, 1912, by proclamation, there was constituted an administrative enclave of Delhi under a Chief Commissioner, Mr. W. M. Hailey, 1.0.5. The Delhi district of the Punjah, from which this enclave was entirely taken, consisted of three tahsils or subdivisions and the enclave was formed by the central tabsils, that of Delhi, and by such part of the southern tahsil, and has a was comprised within the limits of the police post of Mahrauli. The Delhi tahsil has an area of 429 square miles and the police post serves a hilly area of 128 square miles, bringing up the total extent of the enclave to 557 square miles. On the basis of the said some 323,000 are within the municipal limits of Delhi City.

The Architects' Designs.—At the Royal Academy in 1914 there were exhibited drawings by Mr. Lutyens and Mr. Baker, which, though provisional and rather in the nature of what are called Warrant Designs, show how the architectural problems of the new capital are to be solved. Government House and the Secretarlat have been planned by them as one block, as it were a Capitol, facing towards Indrapat.

The Secretariat is to be built on the rock of Raisina hill, the top of which has been levelled for the purpose: behind the Secretariat is to be a raised causeway forming the approach to Government House: and Government House itself is to be built on a high basement constructed on an outcrop of rock. The main processional route to Government House is to be along a sloping way (at a gradient of one in 22½) which leads from a semi-circular piazza, the "Great Court" to the level of the Secretariat buildings.

At the summit of this sloping way is the "Government Court", a space of about 1,100 feet in length, and 400 in breadth, flanked to the north and south by the two blocks of Secretariat buildings. These buildings have Secretariat buildings. These buildings have been designed by Mr. Baker and the aggregate cost will be some £750,000. According to the design the eastern end of each block is marked by deep loggias looking out over the central vista. In the centre of each block is a dome. In the case of the north block this marks an entrance hall: in the south block it surmounts a Conference hall with a suite of cloak and reception rooms. Each block contains three floors: in the lowest are motor garages, go-downs, and record rooms: in the middle floor are the offices of Members, Secretaries and other officers : in the top floor are clerks' rooms. essential feature of the design, and one which sets the character of the whole building, is the provision of loggias and recessed gateways or exedrae giving views through to the fountain courts situate in the interior of the blocks. The verandal so familiar in Indian buildings is altogether absent. The architect relics for control of temperature on thick external walls. with an air space inside, together with the thick window shutters adopted so widely in Southern Europe, and the wide chajja characteristic of Oriental buildings.

Between the north and south Sccretariat blocks, is the way into the "Viceroy's Court"—the raised causeway already referred to—'eading up to Government House. The Court s about 600 feet in breadth and 1,300 feet in singth; it will be treated with grass and waterways and low trees: and should form a dignified approach to the final group of buildings. At a point midway in the causeway, roads lead off to the north and south, forming alkernative lines of approach to Government House.

One thus reaches the portico of Government House. This portico is raised some twenty feet above the causeway and fifty feet above the surrounding country. The house itself centres round the great Durbar Hall, a domed structure which dominates the scheme of the buildings surrounding it. Grouped round the Durbar Hall are the State rooms and great stairways from the entrance courts on the north and south sides. In the right wing is the Chamber of the Legislative Council of the Governor-General and offices for its Members. In April 1912, the Under Secretary of State indicated in Parliament the decision that this Chamber should be attached to the residence of the Governor-General. It has, therefore been included in the design of Government House, but it has been assigned a separate approach through a spacious avenue of its own.

the rear of the house will be a raised garden, walled and terraced after the manner of the Moghuls, and behind that again, on the level of the surrounding country, a park which will contain the staff houses and quarters. The park will lead up to the rocky slopes of the Ridge which closes in the vista on the west. The house, which has been designed by Mr. Lutyens, will, with its attached quarters, garden and park, and with the Legislative Council wing, cost approximately £500,000.

Style of Architecture.—There had been a prolonged "battle of the styles" over Delhi and if these designs gave satisfaction to neither of the extreme and opposed schools of thought, they clearly showed an endeavour to apply, with due regard for Indian sentiment, the spirit and essence of the great traditions of architecture to the solution of structural problems conditioned upon an Indian climate and Indian surroundings and requirements. To use the language of the architects themselves, it has been their aim "to express, within the limit of the medium and of the powers of its users, the ideal and the fact of British rule in India, of which the New Delhi must ever be the monument."

The inspiration of these designs is manifestly Western, as is that of British rule, but they combine with it distinctive Indian features without doing violence to the principles of structural fitness and artistic unity. Many of the details which will be still more characteristically Indian cannot be displayed at the present stage, for the elaborate ornament and decoration, in which the Indian craftsman excels, can scarcely be shown on large-scale drawings intended mainly to illustrate the general conception of the buildings. Much will depend, moreover, upon the resourcefulness and ability of the Indian artificers themselves whom the Government of India proposes to bring together in Delhi to give expression, by their decorative work, to the best traditions of skilled Indian craftmanship.

Cost of the Scheme.—It was at first tentatively estimated that the cost of the new capital would be four million sterling and that sum was given in the original despatch of the Government of India on the subject. A revised estimate was given by H. E. the Viceroy in Council in March 1914. That estimate is as follows:—

- (a) Salaries and Allowances, Rs. 70,18,700.
- (b) Travelling Allowances of Officers and Establishments, Rs. 6,30,000.
- (c) Supplies, Services and Contingencies, Rs. 3,78,600.
- (d) Works Expenditure, (1) Buildings Rs. 3,59,87,200, (2) Communications Rs. 29,91,800, (3) Parks and Public Improvements Rs. 27,34,500, (4) Electric Light and Power, Rs.43,40,700 (5) Irrigation, Rs. 27,49,000, (6) Water Supply, Sewerage, Drainage, etc. Rs. 73,77,900, (7) Purchase of Tools and Plant, Rs. 35,50,600, (8) Survey Camps and General Preliminary Expenditure, Rs. 42,82,100, (9) Maintenance during Construction, Rs. 20,00,000.

- (e) Acquisition of Land taken up Rs. 36,48,200. (f) Other Miscellaneous Expenditure, Rs. 6,000.
- Deduct anticipated recovery from tools and plant, Rs. 10,00,000.

These figures when added up make an aggregate total of Rs. 7,67,04,300, or £ 5,113,620, but said His Excellency, "as we are anxious to face our liabilities for starting the new City to the fullest extent possible we consider it necessary to make a special provision for contingencies and unforeseen expenditure in excess of the usual provision that has been made of 5 per cent. on the works outlay, by adding a sum of one and a half crores or £1,000,000. We have accordingly a very large reserve to meet future possibilities, which we are not able to foresee at present. I should add that the expenditure of this additional erore and a half on unforeseen contingencies will be strictly. controlled by the Government of India and no part of it spent unless absolutely necessary. On the other hand the project estimate contains certain items such as land, residences, water supply, electric power, irrigation, on which recoveries in the form of rent or taxes will in addition to meeting current expenditure partially at any rate cover the interest on capital outlay, while there are other items on which some return account of the sale of leases, general taxes, and indirect receipts may be expected."

Two Cathedral Schemes.—In October 1913 a letter was published in The Times from the Bishop of Calcutta on the provision of a Cathedral at Delhi. He appealed for \$50,000 in addition to any grant given by the Government, and quoted in his letter the following statement of approval by the King-Emperor: "I heartily approve of the project to build a Cathedral in the new city of Delhi. I trust that the appeal for the necessary funds may meet with a general for the necessary funds may meet with a general for the necessary funds may meet with a general funds may possess a Cathedral which in design and character will testify to the life and energy of the Anglican Church and be worthy of its architectural surroundings both of days gone by and of those to come." His Majesty subscribed £100 and the Queen £50 to the fund. The Indian Church Aid Association have received several contributions towards the building fund for the proposed Cathedral Church, in response to the appeal of the Bishop of Calcutta. Cheques may be sent to the Secretary, Indian Church Aid Association, Church House, Westminster, S. W. and crossed Lloyds Bank, St. James's Street, S. W.

A Roman Catholic Cathedral is also projected and Father Paul Hughes, O.M.C., has been touring India collecting money for the Cathedral Fund.

Sanitary Improvements.—While the work on the new city has been going forward various improvements in the existing Delhi have been carried out and the sanitary conditions in particular have been much improved. The fly nuisance which was extremely bad in Delhi abeen much reduced, and other schemes have been formulated as the result of a sanitary survey which embraced the whole of the city. In the past Delhi's death-rate has consistently

exceeded the birth-rate, and but for immigration from the outlying districts the population would have gone down. In 1912 the death and birth rates were practically the same, and in 1913 the improvement was even more marked. The exact figures are not yet available, but the 1913 death rate was roughly 44 per 1,000 and the birth-rate 48 (these returns are on the basis of the population at the census of 1911, and when they are calculated on the correct population the improvement will be even more apparent). There has been a notable reduction in the infantile mortality: in 1912 the number of deaths was 4,091 and in 1913 the number was 3,392. The deaths of people of all ages from fevers, including malaria has fallen from about 6,000 to 4,200: from

small-pox from 445 to 112: from plague from 20 to 5 (all imported): from cholera from 103 to 26 (again all imported).

Higher College for Chiefs.—It was proposed during 1914 that a higher college for Chiefs should be established at Delhi and in this connexion a conference of Chiefs and Political Officers was held at Delhi, in March, at which the Viceroy presided. It was subsequently announced that subscriptions offered towards the college amounted to about ten and a half lakhs, various recurring sums were promised, and the Government of India also promised to recommend the Secretary of State a grant of Rs. 50,000 a year. Thus the whole capital would come to 124 lakhs. The proposal is still under consideration

Stock Exchanges.

There are about 365 Share and Stock Brokers in Bombay. They carry on business in the Brokers' Hall, bought in 1899 from the funds of the Share and Stock Brokers' Association formed to facilitate the negotiations and the sale and purchase of John Stock securities promoted throughout the Presidency of Bombay. Their powers are defined by rules and regulations framed by the Board of Directors and approved by the general body of Brokers. The Board has the power to fix the rates in times of emergencies. It is composed of Sir Shapuril Broacha (Chairman), Mr. Parhudas Jivandas (Vice-Chairman), Mr. Parhudas Jivandas (Vice-Chairman), Mr. Maneckjee Mahimvala, Mr. Nasserwanji Pherozesha Karani, Mr. Naji Mottichand, Mr. Shapurjee Sorabjee Mahimvala, Mr. Shasidas Goculdas, Mr. Vadilal Punamchand and Mr. N. Narandas Govindchand (Secretary).

At first the admittance fee for a broker was Rs. 5 which was gradually raised to Rs. 1,000. There are two classes of Exchange Brokers, Europeans and Indians, the latter being certified for recognition by the native Stock Exchange. Business in Government Paper and all other Trustees' Authorised Securities is carried on under the rules of the Bombay Stock Exchange, but in the street outside the hall.

For many years the Calcutta Share Market had its meeting place in various gullies in the business quarter and was under no control except that of established market custom. In 1908 the Calcutta Stock Exchange Association was formed, a building was leased in New China Bazar Street now called Royal Exchange Place, a representative committee was formed, and the existing trade customs were focussed into rules drawn up for the conduct of business. Admittance as a member of the Stock Exchange is by vote of the committee, and the entrance fee is at present of Commerce.

Rs. 500. -The market custom differs very materially from that of most other Stock Exchanges since there are no settlement days, delivery is due the second day after the contract is passed and sales of securities are effected for the most part under blank transfers. Another difference in procedure as compared with the London Stock Exchange is that there are no "Jobbers" in the Calcutta market. The Dealers who take their place, more or less, are not compelled to quote a buyer's and a seller's rate and are themselves Brokers as well as dealers, calling upon the Banks and other clients and competing with Brokers.

There are about 150 members, besides outside brokers, the former consisting of European, Jewish, Marwari, and Bengalee firms. The Marwaris predominate. The volume of bona fide Investment business is comparatively small and insufficient for the number of Brokers. The principal business transacted on the Calcutta Stock Exchange is connected with the shares in Jute Mills. Coal Companies, Tea Companies registered in India, Miscellaneous industrial concerns (such as Paper, Flour, Sugar). Railway and Transit Companies and Debentures, the latter comprising those of Industrial concerns and Trustee's Investment Securities, namely Municipal and Port Trust Debentures. When speculative operations are being actively engaged in, which frequently take the form of forward contracts for delivery in three months' time, the value of securities changing hands may aggregate as much as a crore of Rupees per month, but since the trade is not constant and one year differs very much from another, it would be difficult to estimate what the average annual turn over would amount to. The association has an honorary secretary and is not at present affiliated to the Bengal Chamber of Commerce.

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Part II.—Commercial (Foreign Trade and Shipping, &c.). III.—Commercial Services (Post Part

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(Paper Currency, Public Debt, &c.). Coinage, Part

IV.(b)—Finance and Revenue (Principal Heads of Revenue, Satt, Opium, &c.) V.—Area, Population, and Public Health (Area, Population, Emigration, Births and Part

Deaths, Vaccination, &c.). VI.—Administrative and Judicial (Administrative Divisions, Part Civil and Criminal Justice, Registration, Police, Jails,

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Report on the Administration of Civil Justice for each Province. Report on the Administration of Criminal

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Excise Report for each Province.

Opium Department Reports: United Provinces and Bombay.

Stamp Department Report for each Province. Registration Department Report for each Province.

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Report on Co-operative Credit Societies for each Province.

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Report on District and Local Boards or
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Prices and Wages in India. Variations in Indian Price Levels. Reports of Provincial Wage Censuses. The customs revenue is mainly derived from the general import duty, certain special import duties such as those on arms, liquors, sugar, petroleum and tobacco, and an export duty on rice. General import duties, which were abolished in 1882, were reimposed in 1804, since which date the general rate of duty on commodities imported into British India by sea has been 5 per cent. advalorem. Cotton was exempted in 1894 when the general duties were received; in December 1894 a 5 per cent. duty advalorem was imposed on imported cotton goods and yarns, while an excise duty of 5 per cent. was imposed on all yarns of counts above 20 spun at power mills in British India; in February 1896 cotton yarns and threads imported or manufactured in India were freed from duty, while a uniform 3½ per cent advalorem duty was imposed on all woven cotton goods imported or manufactured in India at power mills. The products of hand looms are exempted. The duties are levied for fiscal purposes, and not for the protection of Indian industries. It will be noted that machinery (excluding tools and implements to be worked by manual or animal labour), railway materials, gold, living animals, food grains, coal, raw cotton, raw wool, cotton twist and yarn and sewing and darning threads, printing materials and books (but not paper) are, among others, on the free list. In 1896-97, the first year of the existing arrangements, the net custom revenue amounted to Rs. 3,45 lakhs and in 1902-03 Rs. 4,26 lakhs. Last year it reached Rs. 9,22 lakhs. The rapid expansion of the cotton and petroleum industries of India has interferred with further improvement of the import duty realised. In 1913-14 no important change was made in the tarifa and the gross revenue (Rs. 3,62 lakhs) realised in the previous year.

Schedule II-(Import Tariff.)

No.	Names of Articles.	Per	Rate per duty.
1 23 4 5 6 7 8 9 10	Arms, Ammunition, and Military Stores. Including also any articles, other than those included in Nos. 1 to 12 of this schedule which are "arm" within the meaning of the Indian Arms Act, and any articles which the Governor-General in Council may, by notification in the Gazette of India, declare to be "Ammunition" or "Military Stores" for the purposes of this Act. Firearms other than pistols, including gas and air guns and rifes Barrels for the same whether single or double. Pistols Barrels for the same, whether single or double. Springs used for firearms, including gas and air guns and rifles Gun-stocks, sights, blocks and rollers. Revolver-breeches, for each cartridge they will carry. Extractors, nippers, heel-plates, pins, screws, tangs, bolts, thumb-pieces, triggers, trigger-guards, hammers, pistons, plates and all other parts of a firearm (including a gas and air gun or rifle) not herein otherwise provided for, and all tools used for cleaning or putting together or loading the same machines for making, loading or closing cartridges. Machines for making, loading or closing cartridges. Machines for capping cartridges Exception II.—Articles falling under the 5th, 6th, 8th, 9th or 10th head of the foregoing list, when they appertain to a firearm falling under the 1st or 3rd head, and are fitted into the same case with such firearm Exception II.—The following are also free, namely.— (a) Arms forming part of the regular equipment of an officer entitled to wear diplomatic, military, naval, or police uniform; (b) A sword, a revolver, or a pair of pistols, when accompanying an officer of His Majesty's Regular Forces, or a commissioned officer belongs, or, in the case of an officer not attached to any corps, by the officer commanding the station or district in which such officer belongs, or, in the case of an officer for the purpose of his equipment;	Each	Rs. a. p. 50 0 0 0 30 0 0 0 15 0 0 10 0 0 8 0 0 5 0 0 2 8 0 1 8 0 10 0 0 2 8 0 Free. Free.

No.

Per Rate of Duty. Names of Articles. Arms. Ammunition, and Military Stores.—contd. (c) Swords and revolvers which are certified by an Inspector-General of Police to be part of the ordinary equipment of members of the Police force under his charge. (d) Swords forming part of the equipment of native commissioned officers of His Majesty's Army: (e) Swords for presentations as army or volunteer prizes; (f) Arms, ammunition, and military stores imported with the sanction of the Government of India for the use of any portion of the mili-tary forces of a Native State in India which may be maintained and organised for Imperial Service; (g) Morris tubes and patent ammunition when imported by officers commanding British and

10 Machines for capping cartridges-contd.

instruction of their men.

Exception II (g) Morris tubes and patent ammunition, etc .- contd.

Native regiments or volunteer corps, for the

Proviso 1 .- No duty in excess of 10 per cent. ad valorem shall be leived upon any of the articles numbered 1 to 10 in the foregoing list when they are imported in reasonable quantity, for his own private use, by any person lawfully entitled to possess the same.

Proviso 2.-When any articles which have been otherwise imported, and upon which duty has been levied or is leviable under numbers 1 to 10, are purchased retail from the importer by a person lawfully entitled as aforesaid, in reasonable quantity for his own private use, the importer may apply to the Customs Collector for refund or remission (as the case may be) of so much of the duty thereon as is in excess of 10 per cent. ad valorem and if such Collector is satisfied as to the identity of the articles and that such importer is in other respects entitled to such refund or remission he shall grant the same accordingly.

Gunpowder, all sorts All other sorts of arms, ammunition, and military stores •• ..

ad valorem

Ten per cent.

By the Commerce and Industry Department Notification No. 3798—90, dated the 27th May 1911, all articles, other than those specified below, liable to duty under head, 5, 6, 8, 9, or 10, so the case may be, of the above schedule, were exempted from so much of the duty leviable thereunder on importation into British India as is in excess of duty of 10 per cent ad valorem:—

11

Main springs and Magazine springs.

Gun-stocks and Breech blocks.

Actions (including skeleton and waster.)

Breech bolts and their heads.

Cocking pieces.

Locks (for Muzzle-Loading arms).

Machines for making, loading, closing or capping cartridges for rifled arms.

Schedule III—(Import Tariff.)

No.	Names of Articles.	Per	Bate of Duty.
	Liquors, Opium, Salt, Fish, Tobacco and Silver.		Rs. a. p.
1	Liquors (a)—		
	Ale, beer, and porter	Imperial gallon or 6 quart bottles.	0 8 0
	Liqueurs and sweetened spirits, cordials, bitters, perfumed spirits, and toilet preparations containing spirit	32	13 0 0
	Spirit which has been rendered effectually and permanently unit for human consumption	ad valorem	Five per cent.
	Spirit used in drugs, medicines, or chemicals	Imperial gallon or 6 quart bottles of the Strength of Londonproof.	and the duty to be increased o
	Spirit, other sorts	,,	and the duty to be increased or reduced in proportion a time strength of the spiritexeeds or i less than London proof.
	Champagne and all other sparkling wines not containing more than 42 per cent. of proof spirit	Imperial gallon or 6 quart bottles.	3 12 0
	All other sorts of wines not containing more than 42 per cent. of proof spirit	. ,,,	180
	Provided that all sparkling and still wines containing more than 42 per cent. of proof spirit shall be liable to duty at the rate applicable to "Spirit, other sorts."		
2	OPIUM (b) and its alkaloids	seer of 80 tolas	24 0 0
3	SALT (c)	Indian maund of 82‡ lbs. avoir- dupois weight.	The rate at which excise duty is for the time being leviable on sait manufactured in the place where the import takes place. (2)

Schedule III-(Import Tariff)-contd.

No.	Names of Articles.	Per . Rate per duty.
	LIQUORS, OPIUM, SALT, FISH, TOBACCO AND SILVER—concld.	
4 5	SALTED FISH, wet or dry	Indian maund of 823 lbe. avoir- dupois weight. dupois weight. in Council may, by notification in the Gazette of India, from time to time prescribe. (e)
	Unmanufactured Cigars Cigarettes weighing less than 3 lb. per thousand Cigarettes weighing 3lb. or more per thousand Manufactured, other sorts SILVER bullion or coin, except current coin of the Government of India which is free	pound 1 0 0 1 10 0

⁽a) Spirit imported from any port in British India, and protected by the certificate of an officer empowered in that behalf, is chargeable with only the amount, if any, by which the duty cleviable thereon exceeds the duty shown by such certificate to have been already paid.—(Act VIII of 1894, Section 7.)

of 1914, Section 7.)

(e) Salt imported from any port in British India, and protected by the certificate of an officer empowered in that behalf, is chargeable with only the amount, if any, by which the duty leviable thereon exceeds the duty shown by such certificate to have been already paid.—(Act VIII of 1894, Section 7.)

(e) The rate is six annas.

Schedule IV—(Import Tariff.) GENERAL DUTIES.

No.	Names of Articles.	Per	Tariff Valuation.	Duty.
	ANIMALS, LIVING.		Rs. a. p.	<u> </u>
1	HORSES, CATTLE, SHEEP, and all other living animals of all kinds		••••	Free.
2 8	COFFEE FRUITS AND VEGETABLES (except fresh fruits and vegetables not separately enumerated, which are free)—	cwt.	42 0 0	Five per cent.
	Almonds without shell	27 29 29	80 0 0 20 0 0 70 0 0	97 97 97

⁽b) Opium imported from any port in British India, and protected by the certificate of an officer empowered in that behalf, is chargeable with only the amount, if any, by which the duty leviable thereon exceeds the duty shown by such certificate to have been already paid.—(Act VIII of 1914. Section 7.)

⁽d) By Finance Department Notification No. 1748-Evc., dated the 20th March 1907, the duty was fixed at one rupee in the case of Burma, Bengal, Madras, Bombay and Sind. In case of Aden the duty is one rupee for each 140 lb. avoirdupois.

No.		Nam	es of A	rticles.				Per	Tariff Valuation.	Duty.
	ARTIC	LES OF FO	OD A	ND D	RINK	.—cont	đ.		Rs. a. p.	
3	FRUIT	S AND VEGE	TABLES	-cont	ł.				}	
	Cashev	v or cajoo ke	rnels		/	••		cwt.	28 0 0	Five
	Coconi	ıts, Straits		••				thousand	70 0 0	per cent
	, ,	other				::			65 0 0	,,
1		kernel (k			• •	• •	• •	ewt.	22 0 0 22 0 0	7.0
	Curran	its	~~*	• •	• •	• •	• •	"	22 0 0 7 0 0	,,,
		dry, in ba	gs haal	ets an	d bune	lles	•••	"	600	,,,
	*	wet, ,, ,, in po Persian, dried	ts. hox	es, tins	a sund	crates	••	",	8 0 0	"
	Figs. I	Persian, dried	i	,	••	••		ı,	9 0 0	,,
	Garlic							,,	600	٠,,
	Hops		••	• •						Frec.
	Pistac	hio nuts	••	-'-		• •	• •	cwt.	37 0 0	Five
		. D (a	la Dala					\	ad valorem	per cent.
	Prune	s, Bussora (a	in-Dor	пага)	••	• •	• •	• • • • •		"
		s, black kishmish,	Pergio	n Gulf	••	••	::		"	,,,
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Munakka			• • • • • • • • • • • • • • • • • • • •	• • •	•	cwt.	11 "0 0	"
		other sort		.,	• • • • • • • • • • • • • • • • • • • •	•••			ad valorem	.,,
		• • • • • • • • • • • • • • • • • • • •					,	!	Į.	Į.
	Walnu	its, all descri	ptions		. ::				, ,,	"
	All oth	ner sorts of f	ruits a	ad veg	etables	• • •	••		"	"
4	G	PULSE, inc	luding	hroker	arois	and r	mileo	(ł
4	but not	including flo	iuuig	DIOFCI		. and I	, moc			Free.
	Due Hou	mondaring no	u.	••	••	••	•••		i	1
5	MINERAL A	ND AERATEI	WATE	es, an	d all t	ınferme	ented	1	١	771
	and non-	alcoholic be	verages		• •	• •			ad valorem	Five
	<u> </u> _				~				l	per cent.
6	PROVISION	s, Oilman's	STORES					1		,,
-	Bacon	Pork	• •	• •	••	• •	• •		::	"
	Beer and	mer	• •	::	• • •	• • •	::		,,,	,,,
	Decrie de	a mer	••	••	••	••	• •		i	1
	Butter							10.	1 4 0	,,
	Cassava.	Tapioca or	Sago		• •			cwt.	12 0 0	**
	Cheese					•.•			ad valorem 24 0 0	,,,
	China p	reserves in sy	rup	• •	• •	• •	••	cwt. (nett)	0 5 0	,,,
	"	" dry, c	andied			• •	• •	cwt.	4 8 0	1 "
	Cocum	••	••	••	• •	• •	• • •		·	Free.
	Fish-may Flour		• •	••	::	::	::		ad valorem	Five
	Flour	••	••	••	••	•••	• •	}		per cent.
	Ghi							cwt.	75 0 0	,,
	Margarii			•••		••	••		ad valorem	! "
	Pork has	ms			• •	• •	• •	••••	,,,,,	Frec.
	Shark-fir		• •	• •	• •	••	• •			,,
	Singally	and sozille	• •	••	••	••	••			Two and
	Vinegar,	in cask	••	••	••	••	••		ad valorem	one-half per cent.
	1]		Five
	,,	not in cask-				*			,,	per cent.
	"	Persian	••	••	••	••	• • •	!	ļ	per ocau
	١,,,	Indian		٠.			••		"	"
			• •		• -	-4	nnd	1	j	
	All othe	r sorts of p	rovisio	ns, oil	man's	stores,	and		•• <u> </u>	

No.		Names of A	rticles.				Per	Tariff Valuation.	Duty.
-	ARTICLES O	F FOOD AL	ND DE	LINK-	-contd.			Rs. a. p.	
7	SPICES— Betelnuts, rav	v. whole, sp	lit. or	sliced.	from G	oa.	cwt.	13 8 0	Five per
	,, ,,		, `	••	,, St Dutch	raits			cent.
	" who	ole, from Cey	lon	ndie	3	:: }	"	8 0 0	"
	,	, split (sun-d			vlon		••	20 0 0	"
	", all	other sorts	••	• •	٠		,, 	ad valorem	"
	Chillies, dry Cloves	••	• •	• •	••	•••	cwt.	12 0 0 52 0 0	"
		and heads	••	••	••	•••	"	10 0 0	"
		ds, narlavans		••	•••	:: \	**	13 0 0	
	Ginger, dry		• ::	::	::	- ::	"	18 0 0	"
	Mace		••	•••	••	- ::	íb.	1 12 0	"
	Nutmegs			• •			,,	0 5 0	, ,,
	" in sh		• •	• •	••		,,,	0 3 0	,,
	Pepper, black		• •	• •	••)	cwt.	34 0 0	**
	" white All other sorts	of spices	•••	• • •	::	::	****	60 0 0 ad valorem	"
8	SUGAR, crystallis	ed, beet					cwt.	9 12 0	,,
	,, ,,	and soft,	refine	d in Ch	ina		22	11 8 0	,,,
	,, ,,	,, ,,	from.	Java, 2	23 Dute	h l		1	1 "
		,, ,,		ndard a Java,			"	980	"
	İ	" "	Du	tch sta	ndard	i	,,	8 12 0	,,
	" "	,, ,,	rom	Java, ndard a	15 D	utch		8 4 0	1
	,, ,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	from	Mauri	tius, e	qual	,,	1 * * 0	,
				16 D dando				980	1
	Molasses from J	ava		u and o	over	•••	**	9 8 0 2 4 0	"
		ther countrie	28			••	"	2 8 0	,,
	Sugar, all other	sorts, inclu	dino s	acchari	ne pro	duce	,,	- 0	"
	of all kinds an	d confections	ry		• • •	•••	• • • •	ad valorem	۱,,
9	mna hisan							1.	, ,
•	TEA, black	••	••	• •	• •	••	ib.	0 11 0	.,
	" green	••	••	••	••	••	27	0 10 0	,,,
	CHEMICAI NA RCC TA	LS, DRUGS, DTICS AND NNING MA	MEDI DYE TERL	CINES ING A ALS.	S AND ND				
10	CHEMICAL PRODU	UCTS AND PR	EPARAT	ions—		ļ			
	Acid, sulphuri	c				1		ad valorem	
	Alkali, Indian	(sajji-khar)	::	• • •	• • •	::	cwt.	2 6 0	,,
	Alum			::		- ::	"	5 0 0	"
	Arsenic (China	mansil)	• •	••	••	- ::	"	20 0 0	,,,
	Copperas, gree	orts	• • •	• •	• •		,	ad valorem	
			••	••	••	••	****	,,	Two and one-half per cent.
	Explosives na roburite, to cluding deta	mely, blasti nite, and al mators and b	i Of hei	· deger	dyna: iptions	, in-	• •	ad valorem	Five
	i			-400	••		••••	ua vaiorem	per cent.
	Sal ammoniac	••	• •				cwt.	31 0 0	,,
	Soda ash Soda Bicarbon	nto	••	••	• •	["	3 12 0	"
	I POUR DICTION	ate				1	**	5 0 0	22

No.			Name	s of Ar	ticles.				Per	Tariff Valuation.	Duty
	ARTICL	ES O	F FOC	D AN	D DR	INK-	-contd			Rs. a. p.	
10	CHEMICALS,	Pro	dvots	AND P	REPAR	ATION	is-con	td.		ļ	Five
	Sulphate Sulphur			flour	••	••		::	cwt.	19 0 0	per cent.
	Sulpitur	•	,	roll		::	::		"	5 4 0	"
	All other tions, and g muriat of pote cyanan	inclue lucose e of po ash, k nide	ding s , but otash, s ainit s and m	altpetr exclud sulphat salts, n ineral	produ e, boi ling e of a itrate	ax, nitrat mmor of li	grape-s te of nia, sult me, cal	ugar, soda, ohate cium	••••	ad valorem	, ,
	are free	3	• •	••	••	••	••	· • •	••••	["	"
11	DRUGS, ME		es ani	NARC	OTICS-	-					Ì
	Aloes, bla	eck cotra	••	••	::	::	::	::	••••	"	"
	Aloe-woo	d	••	••	::	::			••••	,,	2000
	Anti-plag			• •	••	• •	••	::	cwt	115 0 0	Free.
	Asafœtid	a (nin	g)	••	••	••	••			I	per cent.
			(hingr	a)	••		••		**	30 0 0 ad valorem	"
	Atary, P	ersian	mboo	aomnh	ri.	::	• • •	::]	ib.	0 6 0	"
	Bansloch: Brimston	e (am:	(arael	campu	·-,	::	::	:: {		ad valorem	"
	Calumba	-oot						•••	ewt.	8 0 0	**
	Camphor,	refine	d, oth	er than	powde	r		::	1b.	ad valorem	"
	Camphor		waer	••	••	• •	•••	:: 1	cwt.	25 0 0	"
	Cassia lig	t (cho	bchini), rougi	ı		••]	,,	9 0 0	,,
	,, ,,	, ,,,,,,	,,	scrap	ed	••	••		" (15 0 0	"
	G]	1	ad valorem	**
	Cocaine		••		::		••		cwt.	95 0 0 1 7 0 0	"
	Cubebs Galangal, Pellitory	China	3		• •		• •		"	ad valorem	"
				• •	••	::	••	::	:::: \	,,	**
	Peppermi Quinine s	nt, cr	ystais her olk	aloids o	fcine	hona	::]		Free.
	Salep	ina ou			••		••		cwt.	140 0 0	Five.
					-					ad valorem	,,,,,
	Senna lea Storax, lie All other	quid (narco	tics.	cwt.	.33 0 0	**
	except	opium	and v	bacco	7.77 147				••••	ad valorem	"
	1									ſ	
12	DYEING AND	TAN:	NING M	ATERIA	1.5 per ce	nt.			lb.	120	,,
	Alizarine		ary,	50	ner ce		::		,,	1 6 0 1 10 0	11
	"	"	"	60	"		••]	"	1 14 0	"
	, ,,	"	,,	70	73	••	••	::	"	2 2 0	, , , , , , , , , , , , , , , , , , ,
	,,	**	** -	80 L00	"	::	••	::	"	290	,,
		"	moist		"		••	•••	"	0 4 0	"
	"	"						- 1			
		3	moist	18 pe	cent.				,,	0 5 6	17
	Alizarine		moist,						"	066	"
	Aniline	"	••	indigo	blue	• •	••	••	"	0 14 0	"
	,,	**	dry	••	••	••	• • •	::		ad valorem	,,
] ,,	salts		••	••	••		- 1		<u>'</u>	

No.	Names of Articles.	Per	Tariff Valuation.	Duty.
12	DYEING AND TANNING MATERIALS—contd.	i	Rs. a. p.	Five
	Avar bark Buzgand (gulpista) Cochineai Gallnuts (myrabolams) Persian Madder or manjit Orchilla weed Sappon wood and root Turmeric All other sorts of dyeing and tanning materials	ib.	3 12 0 ad valorem 0 15 0 ad valorem 33 0 0 ad valorem "" ""	per cent
	METALS AND MANUFACTURES OF METALS.	••••	"	"
	HARDWARE AND CUTLERY, including ironmongery and platedware, and also including machines, tools, and implements to be worked by manual or animal labour. [Exceptions, which are free: (i) Water-lifts sugar-mills, oil-presses, and parts thereof, and any other machines and parts of machines ordinary used in processes of husbandry, or for the preparation for use or for sale of the products of husbandary, which the Governor-General in Council may, by notification in the Guzette of India, exempt; (ii) the following agricultural implements, when constructed so that they can be worked by manual or animal power, namely, winnowers, thershers, mowing and reaping machines, elevators, seed-crushers, chaff-cutters, root-cutters, horse and bullock gears, ploughs, cultivators, scarifiers, harrows, clod-crushers, seed-drills, hay-tedders, and rakes, (iii) the following dairy appliances, when constructed so that they can be worked by manual or animal power namely, cream separators, milk sterilizing or pasteuring plant, milk acrating and colling apparatus, churus, butter dryers, and butter workers; (iv) the following articles used in the manufacture of cotton, namely bobbins, warping), forks for looms, healds, heald conds, heald knitting needles, laces, lags and needles for dobbies, pickers, buffalo and others), picking bands, picking levers, picking sticks (over and under) reed, pilers, reeds, shuttles (for power looms), springs for looms, strappings, and weet forks, (v) box backs and wells and fourth unshance hebbis.			
	ends, when imported by or on hehalf of a manufacturer or millowner, and certified by him to be intended exclusively for use in his mill]			
14	MACHINERY namely, prime-movers and component parts thereof, including boilers and component pats thereof; also including locomotive and portable engines, steam-rollers, fire-engines, and other machines in which the prime-mover is not separable from the operative parts MAONINERY (and component parts thereof), meaning machines or sets of machines to be worked	••••	••••	Free,
	by electric steam, water, fire or other power not being manual or animal labour, or which, before being brought into u-e, require to be fixed with reference to other moving parts; and including belting of all materials for driving machinery		••••	. ,,

No.	Names of Articles.	Per	Tariff Valuation.	Duty.
	METALS AND MANUFACTURES OF METALS,—contd.		Rs. a. p.	
14	MACHINERY, etc.—contd			
	Provided that the term does not include tools and implements to be worked by manual or animal labour, and provided also that only such articles shall be admitted as component parts of machinery as are indispensable for the working of the machinery and are, owing to their shape or to other special quality, not adapted for any other purpose.	,		
	Note.—Machinery and component parts thereof made of substances other than metal are included in this entry.			
15	METALS, unwrought and wrought, and articles made of metals—			
	Brass, orsidue and leaves, European	••••	ad valorem	Five per cent.
	"China "China "Ib. "patent or yellow metal, sheets weighing I lb.	••••	,,	,,
	or above per square foot, and sheathing, braziers, and plates patent or yellow metal (old) sheets, flat or in rolls, weighing less than 1lb.	ewt.	54 0 0 37 0 0	"
	sheets, flat or in rolls, weighing less than 11b. per square foot		ad valorem	,,
	,, wire	••••	"	"
	Copper, bolt and bar, rolled	ewt.	65 "0 0	"
	,, nails and composition mans	cwt.	ad valorem	"
	nigs, tiles, ingots, cakes, bricks, and slabs	ıb.	60 0 0 2 0 0	"
	" China, white, copperware white, 10 to 11 in. X 4			\
	to 5 in	hundred leaves.	1 14 0	"
	,, foil or dankpana, coloured, 10 to 11 in.	,,	2 0 0 ad valorem	,, ,,
	wire, including phosphor-bronze	••••	au basorom	"
	factured, except current coin of the Government of India, which is free		,,	"
	German Silver		."	Free.
	Gold bullion and coin		ad valorem	Per cent.
	Iron, anchors and cables		,,	One per cent
	, Lowmoor and similar qualities, all descriptions	ton	100 "0 0	"
	"Swedish, if galvanised, tinned, or lead-		ad valorem	,,
	coated , bar, Swedish and similar qualities nail-rod;	ton	183 0 0	,,
	", bar, Swedish and similar qualities, nail-rod; "Swedish and similar qualities, nail-rod; "round-rod, and square, under half an inch india.	n	195 0 0	,,

			1	,
No.	Names of Articles.	Per	Tariff Valuation.	Duty.
	METALS AND MANUFACTURES OF METALS—contd.		Rs. a. p.	
15	METALS, unwrought and wrought, and articles made of metals—contd.	•		
	From hore other binds	1 4	100 0 0	One
	Iron bars, other kinds		100 0 0	per cent.
	inch in diameter	,,	105 0 0	,,
1	" " , if galvanised, tinned, or lead-coated	1	ad valorem	
	"beams, joists, pillars, girders, screwpiles, bridge work, and other such descriptions of iron, imported exclusively for building	, , ,	lua outorem	, ,,
	purposes. ,, channels, including channel for carriages	••••	"	,,
- 1	" plate and sheet, Swedish and charcoal		"	,,
- 1	" bars, plates, and sheets, Swedish and charcoal		"	i "
- 1	if galvanised, tinned, or lead-coated	••••	,,	72
- 1	,, plate, other kinds, above 1 inch thick, and	1		
- 1	strips	ton	115 0 0] ,,
- 1	,, sheets, other kinds, up to 1 inch thick sheets (other than corrugated), plates or strips,	,,	120 0 0	,,
. 1	other kinds, if galvanised, tinned, lead-		ĺ	Í
- 1	coated, chequered or planished	1	ad valorem	,,
- 1	" sheets, corrugated, galvanised or black		105 0 0	ł
	" noop	ton	185 0 0 135 0 0	,,
	,, nails, rose, wire, and flat-head	cwt.	10 0 0	77
1	", other kinds, including galvanised, tinned, or lead-coated		1	1
`	,	••••	ad valorem	"
- 1	,, nuts and bolts, also hooks and nuts for roof-	1	1	
- 1	ing, galvanised or black		2 "8 0	3>
- 1	" pig	cwt.	2 8 0 ad valorem	22
- 1	", pipes and tubes, including fittings therefor, such as bends, boots, elbows, tees, sockets,			"
ł	flanges, and the like		,,	,,
	,, rails, chairs, sleepers and bearing, and fish-		"	"
- 1				
- 1	clips and tie-hars			
- 1	,, rice-bowls	••••	,,	"
- 1	,, ridging, guttering, and continuous roofing ,, rivets and washers, all sorts		",	"
- 1	wire, including fencing wire and		;; }	"
- 1	but excluding wire-netting	f	ŀ	
- 1	Cans or drums when impact.		"	9)
- 1		·		
	gallon under No. 16 : namely :	1	1	
	rion, caus, united, other than netrol time	- 1	i	Five
ı		can	0 3 6	per cent.
i	gallons capacity			
	,, drums of four gallons canacity	"	0 2 0	n
- 1	(a) with faucet caps (b) ordinary	drum	100	,,
- 1	(b) ordinary	,,	080	10

Schedule IV .- (Import Tariff) - sontd.

No.	Names of Articles.	Per	Tariff Valuation.	Duly.
	METALS AND MANUFACTURES OF METALS.—comd.		Rs. a. p.	
15	METALS, unwrought and wrought, and articles made of metals—contd.			!
	Iron, all other sorts, including dics or circles and wire netting		ad valorem	Five per cent
	Tametta	••••	,,,	, ,
	Lead, all sorts (except sheets for tea chests which are free)		,,	,,
		11.	1 10 0	
	Quicksilver	lb.	22 0 0] ;;
	Shot, bird Steel, anchors and cables	••••	ad valorem	One per cent
	,, blooms	ton	100 "0 0	,,,
	and hoop, if galvanised, tillied,)		ad valorem	Ì
	or lead-coated	ton	100 0 0	"
	" Swedish and similar qualities		ad valorem	٠,,
	nail-rod, round-rod, and square, under		105 0 0	1
	inch in diameter	ton	105 0 0	"
	l " _ished as moliched i		ad valorem	,,
	abannot including channel for Carriages	ton	115 "0 0	. ,,
	plates, above inch thick, and strips plates, up to inch thick	"	120 0 0	"
	shoots (other then corrugated), plates or)	
	string, if galvanised tinned, read-course,		ad valorem	,,
	chequered, or planished ,, sheets, corrugated, gaivanised or black	ton	185 0 0	10
	,, sneets, corrugated, garvanisco of state	,,	135 0 0	"
			ad valorem	"
	,, nails nuts and bolts, also hooks and nuts for		(.,
	roofing galvanised of black	cwt.	2 "8 0	, ,,
	", old ", beams, joists, pillars, girders, screwpiles, bridge-work, and other such descriptions of steel, imported exclusively for building nurnoses	-		i
	bridge-work, and other such descrip-		_	1
	building purposes		ad valorem	"
			1	[
	ast and blistered, including spring and tub		,,	11
	steel , ridging, guttering, and continuous roofing	••••	"	"
	pines and tubes, including fittings therefor,		ļ	ļ
	pipes and tubes, including fittings therefor, such as bends, boots, elbows, tees, sockets, flanges, and the like	••••	נו	4
	and fish-		ĺ	Į
	", rails, chairs, sleepers and better plates, spikes (commonly known as dog- plates, spikes (commonly known as dog-		i .	
	plates, spikes (commonly about spikes), switches, and crossings, other than those described in No. 60, also lever-		ad valorem	Ope
	boxes, clips, and tie-bars	••••	ad valoren	per cent.
			, 1	"
	rivets and washers, all sorts wire, including fencing wire and wire-rope,		,,	,,
	but excluding wire-netting		_	

No.	Names of Articles.	Per	Tariff Valuation.	Duty.
	METALS AND MANUFACTURES OF METALS—contd.	-	Rs. a. p.	
15	Metals, unwrought and wrought, and articles made of metals—concld.			
	Steel, cans or drums, when imported, containing petroleum, which is separately assessed to duty at one anna and six pies per Imperial gallon under No. 16: namely:—			
	Steel, cans, tinned, other than petrol tins of two gallons capacity. ,, ,, or drums, not tinned, of two	can	0 3 6	Five per cent.
	gallons capacity	"	0 2 0	
	,, drums of four gallons capacity— (a) with faucet caps (b) ordinary	drum.	1 0 0 0 8 0	**
	,, all other sorts, including discs or circles and wire-netting Tin, block ,, foil, and other sorts	cwt.	ad valorem 162 0 0 ad valorem	13 22
	Zinc or spelter, nails, ,, tiles or slabs, soft, hard	cwt.	25 "0 0 20 0 0	,, ,,
	,, all other sorts, including boiler	"		
-	All other sorts of metals	••••	ad valorem	"
		••••	,,	"
16	OILS. PETROLEUM, including also naphtha and the liquids commonly known by the names of rock-oil, Rangoon oil, Burma oil, kerosene, paraffin oil, mineral oil, petroline, gasoline, benzol, benzoline, benzine, and any inflammable liquid which is made from petroleum, coal, schist, shale, peat or any other bituminous substance or from any products of petroleum.	Imperial		One anna
	PETROLEUM which has its flashing point at or above two hundred degrees of Fahrenheit's thermometer and is proved to the satisfaction of the Customs Col- lector to be intended for use exclusively for the batching of jute or other fibre, or for lubricating purposes	gallon.		and six pics.
	PETROLEUM which has its flashing point at or above one hundred and fifty degrees of Fahrenheit's ther- mometer and is proved to the satisfaction of the Customs Collectors to be intended for use exclu- sively as fuel or for some sanitary or hygienic pur- pose	•,•••	ad valorem	Five per cent.
		••••	,,	•
	Cocoanut oil	cwt.	32 0 0	,,
	All other sorts of oil, animal or vegetable (including otto of all kinds), and mineral, including Paraffin wax		ad natauan-	
Ţ		••••	ad valorem	*

No.	Names of Articles.	Per	Tariff Valuation.	Duty.
	OTHER ARTICLES UNMANUFACTURED AND MANUFACTURED.		Rs. a. p.	
17	APPAREL, including drapery, haberdashery and millinery, and military and other uniforms and accounterments; but excluding cotton, hosiery (for which see No. 30) and boots and shoes (for which see No. 45), and excluding also uniforms and accountements appertaining thereto, imported by a public servant for his personal use, which are free		ad valorem	Five
18	ART, WORKS OF, except (1) statuary and pictures intended to be put up for the public bonefit in a public place, and (2) memorial of a public character intended to be put up in a public place, including the materials used, or to be used, in their construction, whether worked or not, which are		22	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
19	BAMBOOS, common, grass, hay, rushes, straw, and leaves		••••	Free.
20	Books, printed, including covers for printed books, maps, charts, and plans, proofs, music, and manuscripts			,,
21	BRISTLES AND FIBRE, for brushes and brooms			,
22	BRUSHES AND BROOMS, all sorts	••••	ad valorem	Five per cent.
23	Bullding and Engineering Materials, namely, asphalt, bricks and tiles, cement of all kinds, fireday earthenware piping, lime, and other kinds not otherwise described		"	,,
24	CABINETWARE AND FURNITURE		"	,,
24 <i>a</i>	CHALLENGE CUPS OR TROPHIES which have been won by any military unit (including volunteer corps) or by a particular member or members of any such unit in India or which have been sent by donors resident abroad for presentation or competition in India	••••	.,	Free.
	Provided that the articles are certified by the officer commanding the unit or brigade or any higher military authority or any of their staff officers as having been offered for competition or presented with the sole or main object of encouraging military efficiency; and that they have had engraved on them before being shipped the object for which presented and, except in the case of those sent by donors resident abroad for competition in India, the name of the winner or winners.			
25	CARRIAGES AND CARTS, including motor cars, bicycles, tricycles, jinrikshas, bath chairs, perambulators, trucks, wheelbarrows, and all other sorts of conveyances and component parts thereof, but excluding motor cars designed to carry goods and containing a prime-mover, which are free		ad valorem	Five per cent.
26	CHINESE AND JAPANESE WARE including lacquered- ware, but excluding earthenware, china and por- celain (for which see No. 32)		31	per ocu

	Names of Articles.	Per	Tariff Valuation.	Duty.
	OTHER ARTICLES, UNMANUFACTURED AND MANUFACTURED—contd.		Rs. a. p.	,
27	CLOCKS, WATCHES, and other time-keepers, and parts		ad valorem	Five
28	COAL, CORE, AND PATENT FUEL			per cent Free.
29	CORDAGE, ROPE, and twine made of any vegetable		ad valorem	Five
30	COTTON, AND ARTICLES MADE OF COTTON—	••••	· · · · · · · · · · · · · · · · · · ·	per cent
	Cotton, raw			Free.
	" twist and yarn			
	" sewing and darning thread	••••		"
	and all other manufactured cotton goods			
	not otherwise described	••••	ad valorem	Three and one-half per cent
31	EARTH, COMMON CLAY, AND SAND	• • • •		Free.
32	EARTHENWARE (except earthenware piping, for which see No. 23), china, china clay porcelain, and imitation or false coral	••••	ad valorem	Five
33	FANS OF ALL KINDS, except common palm-leaf fans, which are free		,,	per cent
34	FIREWORKS, all sorts, including fulminating-powder	••••		
85	FLAX, AND ARTICLES MADE OF FLAX, including linen-	••••	,,	"
	thread	• • • •	, ,	. ,,
86	FURNITURE, TACKLE, AND APPAREL, not otherwise described, for steam, sailing, rowing, and other vessels			
37	Gums, Gum-RESINS, and articles made of gum or gum- resin—	••••	,,	و.
	Copal Cutch and gambier (natural)		20 "0 0	27
		cwt.		,,,,
		110	1 12 0	"
	Gum Ammoniac	ewt.	30 0 0	Five per cen
	" Arabic		22 0 0	
	, Bdellium .	"	ad valorem	;
	,, Benjamin, ras	cwt.	32 0 0	, , , , , , , , , , , , , , , , , , ,
	" cowrie	"	80 0 0	,,
	", Bysabol (coarse myrrh) . ", Olibanum or frankincense	"	25 0 0	_,,,
				Free.
		cwt.	18 0 0	Five per cen
	Myrrh	,,	30 0 0	ı ,,
	Rosin All other sorts of gums, gum-resins, and articles	,,	12 0;0	, ,,
	made of gum or gum-resin, including caoutchouc and gutta-percha		ad valorem	l
		••••	AND VICTORS	".
38	HEMP, including Manila hemp, and articles made			l

No.	Names	of Articles.	Per	Tariff Valuation.	Duty.
		, UNMANUFACTURED FACTURED—contd.		Rs. a. p.	
89	HIDES AND SKINS (except which are free), inclu gold-beaters' skins, a hides or skins	raw or salted hides and skins, ding parchment and velium, and all other descriptions of		ad valorem	Five
40	Horn				per cent Free,
20		ot otherwise described		ad valorem	Five per cent.
41	thereof—Computing, Drawing, Educational Galvanic, Measuring, phical, Phonographic materials for Photog Surveying, Telegraphi and all other sorts, exc and apparatus, and p by or under the orders any instruments, appa imported by a passen baggage and in actual 1 his profession or callin instruments (other t imported by a Native regular forces in India, Service Troops, or by a certified by the Officer or unit or the officer in Battalion to be for the regimental band, or the	blectric, Electric lighting, Musical, Optical, Philoso-, Photographic (including raphy), Scientific, Surgical, C, Telephonic, Typewriters, ept Telegraphic instruments arts thereof, when imported of a railway company, and ratus, and appliances when ger as part of his personal use by him in the exercise of g which are free. All band han stringed instruments, regiment of His Majesty's or by a unit of the Imperial Military Police Battalion, and c Commanding the regiment charge of the Military Police bona fide exclusive use of the band attached to the hillitary case may be, and the followare also free of duty:—			
	Bags for bagpipes. Cardholders.	Key pads for reed instru- ments. Ligatures for reed instru-		Ì	
- 1	Carriages (brown or black).	ments.			
- [Cases for reeds and mouth- pieces.	Mutes for brass instru- ments.	ì	1	
	Cases (leather or wooden).	Pipe tassels for bagpipes. Reeds.	1	ĺ	
	Cleaners for brass and reed instruments. Cord for bagpipes.	Ribbons for bagpipes. Ropes for drums. Sanks and slides for brass instruments.		; ;	
	Fingertops. Green broadcloth for	Silver buckles for drums. Silver buttons for drums. Springs. Snares. Taps for brass instruments. Valve corks.			
	drums. Freen Silk ribbon for drums.	Valve tops and needles.	••••	,,	,,

No.	Names of Articles.	Per	Tariff Valuation.	Duty.
	OTHER ARTICLES UNMANUFACTURED AND MANUFACTURED.		Rs. a. p.	
42	IVORY AND IVORY-WARE-			
	Unmanufactured— Elephants' grinders , tusks (other than hollows, centres, and points), each exceeding 201b. in weight, and hollows, centres, and points each weighing	ewt.	800 0 0	Five per cent.
	1010 and over Elephants' tusks (other than hollows, centres, and points), not less than 1010 and not exceeding 2010 each, and hollows, centres, and points	"	800 0 0	"
	each weighing less than 10lb Elephants' tusks, each less than 10lb (other than	,,	700 0 0	,,
	hollows, centres, and points) Sea-cow or moye teeth, each not less than 41b Sea-cow or moye teeth, each not less than 31b and	"	450 0 0 175 0 0	"
	under 41b Sea-cow or moye teeth, each less than 31b All other sorts, manufactured and unmanufactured	"	150 0 0 120 0 0 ad valorem	"
43	JEWELLERY AND JEWELS, including plate and other	••••	ua vuorem	"
	manufactures of gold and silver— Silverware, plain , embossed or chased All other sorts, except precious stones and pearls,) tola	1 2 0 1 6 0	"
	unset, which are free		ad valorem	,,
44	Jute, raw , articles made of, except second-hand or used		••••	Free.
45	gunny bags, which are free		ad valorem	Five per cent
1.0	LEATHER, and articles made of leather, including boots and shoes, harness and saddlery, except saddlery of a military pattern imported by an officer of His Majesty's regular forces and forming part of the equipment with which he is required to supply himself under Army Regulations, which is free			
46	MALT :: :: ::	::::	"	"
47 48	MANURES of all kinds, including animal bones			Free.
49	kinds, also brail, lodder, and cattle-food of all	·		,,
40	OIL-CLOTH AND FLOOR-CLOTH, including linerusta, lineleum, and tarpaulins		ad valorem	Five
50	tions for application to leather many and composi-			per cent
	White June	cwt.	18 0 0	"
	Ochre, other than European, all colours	,,	22 0 0 5 0 0	37 39
	" patent driers		ad valorem	,,
	Turpentine	Imperial gallons.	3 4 0	"
	Vermilion, Canton	box of 90	ad valorem 115 0 0	,,,
	Zinc, white, dry All other sorts, including glue and putty	bundles.	ad valorem	,,

SCHEDULE IV-(IMPORT TARIFF).

No.	Names of Articles.	Per.	Tariff Valuation.	Duty.
	OTHER ARTICLES, UNMANUFACTURED AND MANUFACTURED—contd.		Rs. a. p.	
51	PAPER, PASTEBOARD, MILLBOARD, AND CARDBOARD of all kinds, including ruled or printed forms and account and manuscript books, labels, advertising circulars, sheet or card almanaes and calendars. Christmas, Easter, and other cards, including cards in booklet form including also waste paper and old newspapers for packing, but excluding trade catalogues and advertising circulars imported by packet,	••		Five
	book, or parcel post, which are free PAPER, articles made of paper and papier-mache		ad valorem	per cent.
52	PERFUMERY— Gowla lusked and unhusked	cwt.	55 0 0	. "
	Kapurkachri (zedoary) Patch leaves (patchouli) Rose-flowers, dried Rose-water	" Imperial	17 0 0 20 0 0 27 0 0 2 0 0	11 21 22
**	All other sorts, except perfumed spirit (for which see Schedule III)	gallon.	ad valorem	,,
53	PITCH, TAR, AND DAMMER— Bitumen Dammer Pitch, American and European		;; ;;	97 91
	Tar, American and European		"	" " "
54	PLANTS AND BULBS living, also dried for herbaria	:::		Free.
55	PRECIOUS STONES AND PRABLS, unset (including the stones generically known as Cambay stones, such		ļ	
56	as agates, cornelians, and onyx) PULP of wood, straw, rags, paper, and other materials			"
57	PRINTING AND LITHOGRAPHING MATERIAL, namely, presses, type, ink, brass rules, composing sticks, chases, imposing tables, and lithographic stones, stereo-blocks, roller moulds, roller frames and stocks, roller composition, standing screw and hot presses, perforating machines, gold blocking presses, stereotyping apparatus, metal furniture, paper folding machines, and paging and numbering machines, but not including paper	•••)F
59	RAGS))·)}
60	BAILWAY MATERIAL for permanent-way and rolling- stock, namely, cylinders, girders, and other material for bridges, rails, sleepers, bearing and fish-plates, fish-bolts, chairs, spikes, crossings, sleeper fastenings, switches, interlocking apparatus, brake gear, coup- lings and springs, signals, turn-tables, weigh-bridges, engines, tenders, carriages, wagons, traversors, trollies, trucks, and component parts thereof; also the following articles when imported by or under the orders of a railway company, namely, cranes, water cranes, water tanks, and standards, wire and other materials for fencing.			

SCHEDULE IV-(IMPORT TARIFF).

No.	Nam	es of Ar	ticles.			Per	Tariff Valuation.	Duty.
	OTHER ARTICLE AND MANU	S, UNM FACTUR	ANUFA RED—co	CTURE	D		Rs. a. p.	
	Provided that for th "railway" means a provisions of the In includes a railway of under the suzerainty tramways as the Go by notification in the include therein.	line of a dian Rai construct of His Market of Gazette Gazette	railway ilways A ed in a ajesty, a meral in	subject (.ct, 1890 Native .nd also Council	to the), and State such may.		۰	Five
61	SEEDS, except oil-seed by sea from the terri Chief in India which All sorts	tories of	ed into any Na -	British tive Pri	India ace or		ad valorem	per cent.
62	SHELLS AND COWRIES							
	Chanks—large shells,	for came	os				,,	,,
	" white, live							. "
	, , dead	l			• • •	::::	"	"
	Cowras Cowries, bazar, comm] ;;	. ,,
	,, yellow, supe	ion rior anali	tur		• •	cwt.	4 "0 0	**
	" Maldive		ty		• • • • • • • • • • • • • • • • • • • •	,,	5 0 0 7 0 0	,,
	, Sankhli				• • • • • • • • • • • • • • • • • • • •	"	140 0 0	,,
	Mother-of-pearl, nacr	е			••	."		Free.
	Nakhla	••	• • •	• •	••	cwt.	105 0 0	Five
	Tortoise-shell					10		per cent.
	. nakh			• • • • • • • • • • • • • • • • • • • •	• • • •	10	13 0 0 5 8 0	"
	All other sorts, include otherwise described		les made	of shell	, not	.,	ad valorem	
63	SHIPS AND OTHER VESSE	TS for inl	and and	harbour	navi-	••••	ua viitoreni	"
	gation, including sto barges, imported				and			Free.
64	SILK AND ARTICLES MAI	DE OF SIT	.K					
•	Bokhara	•••		•••	••	n	600	Five
	Floss Piece-goods	••					ad valorem	per cent
	Sewing thread Chine		• • • •	• • •	٠.	••••	,,	"
	Raw silk-Yellow Si	ianghai i	neluding	T PO-Pools	.a ••	•::	. "	92
	,, fr					10	4 12 0	,,
		Omnus (uner tr	ian Sha	nghai]	
	Mathow	Incident	g re-reele	ed	••	**	5 0 0	"
	Panjam		••	: ::	• •	,,	3 6 0 2 8 0	22
			• •		• • •	"	2 8 0 4 8 0	"
	Persian	••				,,,		3>
	Persian Siam			,		ľ ••	1 3 6 0	
	Persian Siam White Sh	anghai,	Thomko	on or Du	ppion	,. ,,	3 6 0	"
	Persian Siam White Sh	anghai,	Thomko	inds, i	aclud-		3 4 0	"
	Persian Siam White Sh "	anghai,	Thomko other k ing re-	inds, in reeled ins, incl	aclud-		3 4 0 6 4 0	
	Persian Stam White Sh , oth Waste an	anghai, er kinds e-reeled i Kachra	Thomkoother king re-	reeled ina, incl	uding	,,	3 4 0 6 4 0 6 12 0	"
	Persian Siam White Sh "	anghai, er kinds e-reeled i Kachra	Thomkoother king re-	reeled ina, incl	uding	,,	3 4 0 6 4 0 6 12 0 ad valorem	"
65	Persian Stam White Sh , oth Waste an	anghai, er kinds e-reeled i Kachra	Thomkoother king re-	inds, inclina, incl	uding	,,	3 4 0 6 4 0 6 12 0	"

SCHEDULE IV-(IMPORT TARIFF).

No.	Names of Articles.	Per	Tariff Valuation.	Duty.
	OTHER ARTICLES, UNMANUFACTURED AND MANUFACTURED.—concid.			
66	SPECIMENS ILLUSTRATIVE OF NATURAL SCIENCE, including also antique coins and medals	••••		Free.
67	STATIONERY, excluding paper (for which see No. 51).	••••	ad valorem	Five
63	STONE AND MARBLE, and articles made of stone and marble		22	per cent.
69	TALLOW AND GREASE, including stearine		,,	25
70	TEA CHESTS' of metal or wood, whether Imported entire or in sections, provided that the Customs Collector is satisfied that they are imported for the purpose of the packing of tea for transport in bulk.	••••		Free.
71	TEXTILE FABRICS, not otherwise described	• • • •	ad valorem	Five
72	Tollet Requisites, not otherwise described	••••	,,	»
73	Toys, including toy-books and requisites for all games		,,	"
74	UMBRELLAS, parasols, and sunshades of all kinds		,,	"
75	WALKING STICKS and sticks for umbrellas, parasols, and sunshades of all kinds, mounted and unmounted, driving, riding, and other whips, fishing-rods and lines		,,	3,
76	WOOD AND TIMBER (except firewood, which is free), and articles made of wood, not otherwise describ-		,,	,,
77	Wool, raw articles made of, including felt		ad valorem	Free. Five per cent.
78	ALL OTHER ARTICLES, manufactured or unmanufactured, not described in the Schedule		,,	per ceno.

SCHEDULE V-(IMPORT TARIFF).

No.	Names of Articles.	Per	Rate of duty.
_			Rs. s. p.
1	Rice husked or unhusked, including rice flour, but, not including rice bran and rice-dust, which are free	Indian maund of 82? lb. avoir- dupois weight.	0 8 0

Note.—Under Act IX of 1903 a customs duty at the rate of a quarter of a pie per pound has been levied from the 1st April 1903 on all tea produced in India and exported from any customs port to any port beyond the limits of British India or to Aden. The proceeds of this cess are paid to the Tea Cess Committee appointed under Section 4 of the Act. On the recommendation of this Committee the maximum rate of a quarter of a pie per pound may be reduced.

Botanical and Zoological Surveys.

tion of the Superintendent of the Royal Botanic Garden, Calcutta, with whom are associated the Economic Botanists belonging to the Agrithe Economic Botanists belonging to the Agri-cultural Department. In 1912 the post of Reporter on Economic Products was abolished and replaced by that of Economic Botanist to the Botanical Survey. Much of the syste-matic botanical work of India is done for the department by forest officers and others. Over 2,000 specimens were obtained in 1911-12 by the officer deputed to accompany the Abor Expedition as botanist, and a material addition was made to the information available as to the vegetation of the little-known frontier region traversed.

Mammal Survey.--An important movement has recently been inaugurated by the Bombay Natural History Society which Society which Bombay Natural History Society which has collected subscriptions for a survey of the mammals of India. This Survey was begun in 1911 with the object of getting together properly prepared specimens of all the different kinds of Mammals in India, Burma different kinds of Mammais in India, Burma and Ceylon so that their distribution and differences might be more carefully worked out than had been done before, also to form as complete as possible a collection of speci-mens for the Society's Museum in Bombay. Before the Survey started the Society had a very small collection, and even in the British Museum in London the Indian specimens were very poorly represented. Three trained collectors from England are in the service of the Society and the specimens obtained by the Survey are being worked out at the British
Museum and duplicates presented to the different Indian Museums. In India most of the country has been worked on the West Coast from Coorg as far north as Mount Abu, also from Coorg as her norm as mount Adul, also the Central Provinces, Kumaon and Bengal, The whole of Ceylon has been worked, and so has a considerable part of Burma. At the present time owing to the war only one collector is in the field in Sikkim, the others having gone to the front. Funds for the Survey were raised by subscription from the principal Native Chiefa and some prominent Bombay citizens Chiefs and some prominent Bombay citizens Chiefs and some prominent Bombay citizens together with grants from the Government of India, the Government of Ceylon, the Government of Burma, the Government of the Malay States, and the different local Governments as well as donations from the Royal Society, the British Museum and the Teological Society of London Zoological Society of London.

The Board of Scientific Advice was es-

The Botanical Survey is under the directinquiry, to ensure that research work is distoned to the Superintendent of the Royal Botanic tributed to the best advantage, and to advise the Government of India in prosecuting practical research into those questions of economic or applied science on the solution of which the agricultural and industrial development of the agitable and industrial development of the country so largely depends. The Board includes the heads or leading representatives of the Survey, Agricultural, Civil Veterinary, and other Scientific Departments, with the Inspector-General of Forests and the Director of the Indian Institute of Science. The programmes of investigation of the various departments are submitted to it for discussion and arrangement, and an annual report is published on the work done, as well as a general programme of research for the ensuing year. The reports and the programmes formulated are communicated for consideration to an Advisory Committee of the Royal Society, which from time to time furnishes valuable suggestions and advice.

The Indian Research Fund.—Scientific research work is rapidly developing in India. In 1911 the sum of 5 lakhs (£33,000) out of the surplus opium revenue was set aside or the surplus oplum revenue was set sauch as an endowment for research into epidemic diseases in connection with the Central Research Institute, at Kasauli. It was hoped that this sum might be largely augmented by private subscriptions. An Indian Research Fund Association was constituted. search Fund Association constituted, WAS search fund association was constituted, and a good deal of work has already been undertaken. Its objects are defined as "the prosecution and assistance of research, the propagation of knowledge and experiments the measures generally in connection with the causation, mode of spread and prevention of communicable diseases." Fresh investigations into kala azar and cholera have been inauguraof the Fund, to study yellow fever in the regions where it is endemic, with a view to taking steps to prevent its introduction into India. A further grant of 6 lakhs (£40,000) was made to the Central Research Fund from the opium surplus of 1911-12. It has been decided to devote to research and anti-malarial projects devote to research and anti-mataria pro-blakhs (£33,000) a year from Imperial revenues commencing in 1913-14. A new periodical, The Indian Journal of Medical Research was instituted in 1913 and is published four times annually, as the official organ of the Research Fund. The journal deals with every branch of research directly or indirectly connected with medical and sanitary science, and forms a record of what is being done in India tablished in 1902 to co-ordinate official scientific for the advance of this work.

NATIVE PASSENGER SHIPS.

The following Resolution by the Government of India was issued in October 1913, as a result of inquiries set on foot after the loss of the Titanic.—

"The Board of Trade made a comprehensive revision of the scale of boats and life-saving the Indian Emigration Act 1908, which are read appliance to be provided on board ships in the United Kingdom and appointed committees of experts to deal with collateral questions arising in the same connection. Meanwhile,

lines on which it should proceed. The subject carried. The question is further complicated is one of considerable difficulty and complexity, by reason of the fact that of a number of native involving a number of technical and other questions which need careful scrutiny. The Government of India have therefore decided to appoint a committee representative of official appoint a committee representative of others, and non-official interests which will enquire generally into the sufficiency of the existing rules and report its views to the Government. The committee will consist of the following President and members:—President, Mr. C. G. President and members:—President, Mr. C. G. Todhunter, I.C.S., Collector, Madras Presidency. Members—the Hon'ble Sir Fazulbhoy Currimbhoy Ebrahim, Bombay; Commander C. J. C. Kendall, D.S.O., R.I.M., Port Officer, Calcutta; Mr. W. H. Ogston, partner in Messrs. Killick, Nixon & Co., Bombay; Captain P. Dest Cronix, Marine Department, British India Steam Navigation Company, Calcutta."

The Committee met at Bombay on the 10th November and subsequently visited other ports. It was to submit its report to the Government of India on the 1st March 1914.

Difficulties of the Question-The appointment of the committee was welcomed by the Press, though some criticisms were directed against the apparent narrowness of the scope of the inquiry. The whole subject is one of considerable difficulty and complexity. It is well-known that the standards laid down under the enactments now in force are not adequate to provide accommodation for all on board. would be invidious to specify any one vessel to illustrate the inadequacy of the present standards, but it may roughly be said that, on the assumption that the cubic capacity which should be provided in life-boats should be at the rate of the national standards. assumption that the cubic capacity which should be provided in life-boats should be at the rate of ten cubic feet per adult, the accommodation now provided will only afford room for 20 to 50 per cent. of the number of passengers Arabia, was 2,526,248 in 1911-12.

by reason of the fact that of a number of native by reason of the fact that of a number of native passenger ships many are never out of sight of land during their voyages, and that any insistence on the principle that there should be life-boat accommodation for all on board will necessarily result in the curtailment of the carrying capacity. It is doubtful therefore whether, in the case of passenger ships which are engaged in the carriage of passengers between ports separated by inconsiderable distances, some relaxation should not be allowed in the matter of providing life-boat accommodain the matter of providing life-boat accommoda-tion for all on board. The matter is thus essentially one for local investigation.

Working of the Act.—Under the Native Passenger Ships Act (X of 1887) the term "Native Passenger Ships" is applied to sailing-ships, which carry as passengers more than thirty natives of Asia or Africa, and to steam-ships carrying more than sixty such natives. Local Governments have discretionary power, with the sanction of the Governor-General in Council, to alter these numbers to fifteen and thirty, respectively. A long voyage is defined in the Act as a voyage in which the ship will, in ordinary circumstances, be continuously out of port for one hundred and twenty hours or more and a short voyage as one in which the ship will not, in ordinary circumstances, be continuously out of port for one hundred and twenty hours. The space allotted to passengers, and some of her conditions, differ in a long and a short voyage.

The total number of persons who left Indian

TIDAL CONSTANTS.

The ap Water ma ing from, Bridge, gi	y be for	ound bime of	y addii High	ng to, Wate	orsurat.	btr Lon	act• don	Calcutta Rangoon T		 Entrance			add		M. 19 41 85
given as l	below:							, "		Jan VI am CC	,	••	,,	_	39
-				•		H.	М.	Penang	••	••	• •	• •	sub.		
Gibraltar					sub.	0	32	Singapore	• •	••	••	• • •	**	8	25
Malta					add	1	34	Hongkong		• •		• •	,,	4	27
Karachi	• • •			•••	sub.	2	33	Shanghai	••	••			,,	0	34
Bombay		••	. ::		**	1	44	Yokohama					add	3	в.
Goa	••	••	••			2	44	Valparaiso					sub.	4	40
		• • •	••	••	"			Buenos Ayı					add	4	٥
Point de G	lalle	• •	• •	• •	add	0	12			••	••	••	uuu	ō	32
Madras	• •	••	••		sub.	5	6	Monte Vide	0	• •	• •	••	".	U	oz.

Wild Animals and Snakes.

In the 25 years ending in 1911 the number of human beings reported to have been killed of human beings reported to have been killed in British India by wild animals was 67,389, and by snakes 543,994, making together a total of 611,883, but the figures are far from accurate. Up to the year 1900 deaths from mad dogs and jackals were included in the returns, but as these animals are not ordinarily dangerous to human beings or cattle, the figures have been omitted since 1901. The annual average number of persons killed during successive quinquennis since 1876 is during successive quinquennia since 1876 is as follows :---

					By wild animals.	By snakes.
Five	years	ending	1880		3,090	17,214
"	"	. ,,	1885	••	2,752	19,605
,,	"	**	1890	••	2,581	21,267
**	33	"	1895	••	2,925	21,054
,,	"	. 45	1900		3,456	22,175
",	"	,,	1905	••	2,461	22,296
**	,,	33	1910	٠.	2,210	21,571
				i	j	

As regards the mortality from wild animals it will be observed that the average number of deaths is lowest in the quinquennium ending 1910. The abnormal number of deaths in the quinquennium ending 1900 is ascribed indirectly to the famine conditions prevailing in Bengal during the year 1900, which drove people in large numbers to the jungles in search of food, while the drought also brought down wild animals into the open country in search of water. The total number of persons killed in 1911 aggregated 1,898 as compared with 2,882 in 1910, the decrease being noticeable in every province except Bombay, but there the total number of deaths was 26, as compared with 22 in the previous year.

The tiger is the animal most destructive to human life, and is responsible for 38 per cent. of the total number of deaths caused by wild animals in the last five years. Leopards, wolves, and bears account for 15, 12, and 4 per cent. respectively.

Of the total number of persons (namely 1,898) killed in the year 1911, the tiger accounted for 762, the leopard for 253, and wolves and bears for 270. Elephants and hyenas and bears for 270. Elephants and hyenas of Wild Animals and Snakes, especially the are the two other classes whose ravages are distinguished in the returns; between them they were responsible for 76 deaths in 1911. The rewards given by Government for the Of the 565 deaths attributed to "other anidestruction of wild beasts have averaged mals," 243 are assigned to alligators and corcodiles, 63 to wild pigs, 24 to buffsless, 23 (which 64 per cent. is on account of tigers and to wild dogs, and 160 to unspecified animals.

As regards mortality from snakebite, in 1913 decreases were noticed in the North-West Frontier Province and Burma and, as in 1912, Coorg returned only one death. In Bombay the introduction of special remedial measures are being considered for the extermination of snakes in the Ratnagiri district, which has an unenvi-able notoriety in the Presidency. In this respect Sir Lauder Brunton's lancets are reported to have effected a fair number of cures in cases in which they were used, but as on previous occasions, the information rurnished in these reports does not justify any definite conclusions as to the efficacy of this method of treatment.

Loss of Cattle.—In the 25 years dealt with in these tables, the number of cattle killed by wild animals and snakes was 2,067,920 and 187,436, respectively, making a total of 22,255,356. The average number of cattle killed during successive quinquennia since 1876 is as follows:—

					By wild animals.	By snakes.
Five	years	ending	1880		47,969	3,052
,,	,,	,,	1885		47,501	1,810
**	,,	,,	1890		63,030	3,157
"	"	,, .	1695	• •	83,955	4,857
,,	,,	,, *	1900	• •	82,465	8,476
,,	,,	,,	1905	• •	86,761	9,322
"	"	1)	1910	••	90,037	10,072
For t	he ye	ar	1911	••	91,704	10,534

In the case of cattle, the leopard is even more destructive than the tiger, and between them they are responsible for 80 per cent, of the total deaths from wild animals in the last five years (the proportion being: leopards 48 per cent. and tigers 32 per cent.). Wolves come next with 12 per cent.

Of the total number of cattle killed (namely Of the total number of cather kines (harmony 91,704) by wild animals exclusively in 1911, the leopard accounted for 42,745, the tiger for 28,832, and wolves for 11,922. Of the cattle destroyed by "other animals", 56 per cent. is ascribed to wild dogs. The total for 1913 was 94.000.

The statistics relating to the Destruction of Wild Animals and Snakes, especially the

Persian Gulf Trade.

The British connection with the Persian Gulf has been a matter of steady growth since the earliest developments of England's mercantile and political interests in eastern seas, and is now so intimate that Lord Curzon made an official tour of the Gulf Ports as Viceroy of India in 1904, while the two Conservative and Liberal British Foreign Ministers of recent years have both affirmed the principle that for any other Power to attempt to establish a port there would be regarded by Great Britain as an unfriendly act. Britain has policed the Gulf, surveyed, mapped and buoyed it.

British and British-Indian trade in the Gulf amounts to several millions sterling a year. The whole of the Gulf is practically dependent upon the British Mail services for its postal communications. It was the Indian Government that laid the cable up the Gulf and across Persia. British trade spreads its web inland from the Gulf. littoral in numerous directions and is chiefly directed through the Gulf ports into southern and western Persia. Persian imports flow in from two directions: from the north, via Russian routes, and from the south and west via the Gulf ports, and practically the whole of British and Indian trade with Persia is carried by the latter routes. The statistics of British and Indian trade with Persia are, therefore, practically a record of what goes by the Gulf entrances.

Since the chronic disturbance of the southern routes began a few years ago, a good deal of British trade of small bulk has been diverted to the Russian postal routes. There is also a comparatively small, but rapidly developing, overland trade with India via Nushki and Quetta, in Baluchistan.

The main trade entrances to Persia from the Persian Gulf are:—

(1) Through Basra, (approached from the Gulf by the Shatt-el-Arab) thence by river barge up the R. Tigris to Baghdad and thence by camel and mule caravan across the Turco-Persian frontier at Khanikin, to Kermanshah, in the West Persian Highlands, and on through Hamadan to north and central Persia and Teheran;

(2) Through Bushire and inland viz Shiraz to Isphahan, in Central Persia; and

(3) Through Bandar Abbas, at the entrance of the Gulf, and via Kerman to Seistan and Khorasan, in eastern and north-eastern Persia.

Another entrance is through Mohamerah and into the western highlands via the Karun Valley.

The last published report on the trade of Persia by the British Legation in Tcheran shows that during the preceding year the trade of Persia with foreign countries amounted to over £20 million. Russia stood first and the British Empire second in the combined list of imports and exports. In comparing British and Russian trade, it must be remembered that there have at no time been such obstacles to trade in the north—Russian's road of entry—as there have been in the rest of Persia, and the roads have remained open for caravans to move freely along them.

Hamadan, an ancient meeting point of several trade roads in the rich highlands of Western Persia, is the largest centre of British trade in Persia, taking about three-quarters of a million pounds' worth of British goods annually and growing in importance. Kermanshah, westward of Hamadan, is the forwarding centre, before Hamadan is reached, of the important stream of British trade pouring in through the Persian Gulf port of Basra and up the Shatt-el-Arab to Baghdad. The customs returns of Kermanshah show in normal years a total of about £1,000,000 worth of goods imported from the United Kingdom. Of this (principally Manchester goods), it is estimated that three-quarters are for Hamadan. Large Arab-Jewish merchants established in Manchester ship their goods direct from that city to Baghdad, whence they are forwarded to agents in Hamadan. Apart from Lancashire cotton goods and a little Sheffield cutlery there are no British imports of consequence. war with Turkey has, of course, upset these arrangements. It is said that inland transport tariffs being excessive and the southern roads unsafe from robbers, British merchants generally have found it impossible to compete generally have found it impossible to compete with Germany and Russia. It was alleged that these two countries, being within easier reach, were able to supply the bazars of North Persia with goods at a much smaller cost and that, although the quality is very inferior, this mattern little to the average Persia. this matters little to the average Perslan.

A Turkish Chamber of Commerce was formed at Hamadan in 1911-12. Its members consist of most of the Arab agents of British and Arab firms in Manchester.

Great developments in British trade with this part of Persia will ensue when the railway from Mohammerah, at the head of the Persian Guif, into this region is opened. Engineers are already on the spot engaged in the preliminary work of construction. The rate of progress depends on the state of the tribes which are restless. British goods by direct steamers grdinarily take as a minimum the following time in transit:—London to Basra, six weeks; Basra to Baghdad, five days (but delay in transhipment is frequent). From Baghdad to Kermanshah both mule and camel transport are available during the summer months, but the latter is suspended in winter between November and March.

The Baghdad Route.

British trade via Basra to Baghdad is chiefly transit trade for Persia, as indeed is the greater portion of all Baghdad trade. During recent years the virtual closing of the Smith Persian routes benefited the Baghdad tradic by obliging goods which formerly extered by other lines to adopt that via Baghdad and Kermanshali instead. The commencement of large irrigation works at flindlysh and Habbaniyah in Mesopotania by the British firm of Sir John Jackson. Limited, in 1911, on behalf of the Turkish Government, brought money into the country and increased the purchasing power of a part of the population. On the other hand the political chaos in Southern Persia has had a prejudicial effect upon the Import trade.

The effects of the present war are, of course, not yet fully developed. The Baghdad route is closed and trade elsewhere greatly hampered.

Bushire.

Bushire is the most important direct trade entrance from the Gulf into Persia. The area in the southern part of the country, for which the port of Bushire serves as a distributing centre, falls roughly into two divisions;
(a) The towns along the main caravan route
up to and including Isphahan (such as Shiraz,
the principal centre, Kazerum, Abadeh) and
the province of Fars generally; (b) the coast
littoral, south of the first mountain range on the way to Shiraz, for a distance of more than 150 miles in length and embracing, near the borders of Arabistan, the large town of Behbehan and its district.

From 1908 onwards deterioration in the state of security throughout Southern Persia has been marked.

Shipping.

Two hundred steamships with a total tonnage of 319,234 tons entered the port of Bushire during the last year for which complete official returns were available before the War. The following British lines are interested in the shipping trade of the Gulf and despatched either their own or chartered ships :-

Anglo-Algerian Steamship Company, Limited, (1896).

Bucknall Steamship Lines, Limited.

West Hartlepool Steam Navigation Company. Messrs. Andrew Weir and Co. and other chartered steamers.

British India Steam Navigation Company, Limited.

Arab Steamship Lines, Limited.

Bombay and Persia Steam Navigation Company, Limited.

In addition, several German and some Russian vessels belonging to or for the Hamburg-America Line called at Bushire. The number of inde-Interest at Desirie. The number of independent chartered steamers also showed a tendency to increase, and with the extension of trade on the Tigris and the developments projected in that district it is not unlikely that other companies will make their appearance. A Dutch service of steamers from Java to the Gulf was recently in contemplation. The Arab Steamship Line, with its head office in Bombay, has made rapid progress and now has several ships in the trade, which are carrying considerable quantities of cargo.

Bahrein Islands.

An important trading centre in the Persian Gulf is the Bahrein Islands, lying in an indent-Gult is the Bairein Islands, lying in an indemination of the Arabian coast on the western shore of the Gulf. The Bahrein Group consists for practical purposes of two islands, Awal (the main island) and Muharrak. The former is 30 miles (maximum measurement and has an area of 208 square miles. The and has an area of 208 square miles. The by agriculture, of which date cultivation population of the islands is reckoned at about principal form, but the mountainous an 100,000. As a port and trade centre, it is a place of resort for people from the adjacent countries—Persia, Turkish Arabia, Katar and Trucial Oman, and to a less degree Central Arabia. There is a large interchange of principal countries—of a million annually and luce. Apart from these commercial visitors

there is also the large community engaged in the pearl fishery, who in 1906 were estimated as numbering some 17,500 souls. The pearl trade dominates the whole commercial situation.

The Hindus and the Persians of Bahrein include a number of prosperous merchants who control the bulk of the general import trade. The Hindus, moreover, represent a considerable amount of capital in India, to which they add their Bahrein gains. In the shipping business (exclusive of the native coasting trade) European influence is absolute.

Communications with India and the Gulf ports are maintained by the regular services of

two lines of steamers.

Bundar Abbas.

The district of Bunder Abbas consists of a narrow strip of sandy and inhospitable looking country lying between high ranges of mountains on the north and the shores of the Persian Gulf on the south. The town itself lies near the western end of the district, and is the seat of a Persian Deputy-Governor, who is subordinate to the Governor of the Gulf Ports. It consists of a squalid collection of houses, extending for about 1½ miles along the shore; its inhabitants are poor and unprogressive. The population is approximately estimated at 10,000, but a large exodus takes place in summer which considerably reduces this number. The port owes its present existence to the fact that it is a convenient, or perhaps the least inconvenient, entrepot for goods destined for the south-castern portion of the Shah's dominions. It possesses from a shipping point of view but one advantage and many drawbacks.

Exports of produce grown in the Bunder Abbas district are extremely small; similarly it is estimated that probably not more than about 5 per cent. of the total imports are consumed locally. Bunder Abbas is the port of the Kerman districts, and to a large extent of Laristan also. Now-a-days, owing to the still greater insecurity of the northern trade routes, the large bulk of the Kerman exports are sent down to the Gulf.

Great disadvantage and handicap are caused to trade at Bunder Abbas by the very high telegraph rates in force between Bunder Abbas and all other places.

Muscat.

Muscat is the capital and the principal port of the Sultanate of Oman, which comprises a portion of the south-eastern coast of Arabia up to the entrance to the Persian Gulf. Muscat is the only port of call for steamers in Oman, but as the town lies at the end of a cove surrounded by huge rocky hills, it has no means of communication with the interior. The neighbouring town of Matrah, about 2 miles up the coast, supplies this want, and is the local centre for trade with the interior.

The majority of the settled inhabitants live by agriculture, of which date cultivation is the principal form, but the mountainous and arid nature of the country does not lend itself to remunerative agriculture, and the quarrelsome nature of the tribesmen does not encourage modern methods. The total trade is about three quarters of a million annually and taken

India and the War.

On August 5th, a proclamation by Lord Hardings—as Governor-General of India and ex-officio Vice-Admiral—announced that war had broken out between His Majesty and Germany. The news instantly elicited from every part of India proofs of loyalty and devotion to the British Raj; and in a day or two it was obvious to the whole world that, so far from seizing upon England's pre-occupation as a favourable opportunity for promoting internal dissensions, India had never been so united in sentiment and purpose. Far more marked than the dislocation of business and everyday life which naturally occurred was the intense desire of every class of Indian to be of some service in the just cause which England had undertaken to maintain, and the country may fairly be said to have become vocal through the ruling chief who inquired of the Viceroy "What orders has His Majesty for me and my troops?"

Offers made in India.—The extent to which the Indian Government, and the Princes and peoples of India, proposed to share in the burden of the war only gradually became known. At the end of August Lord Kitchener made the brief statement in the House of Lords that the expeditionary force was to be increased by two divisions and a cavalry division besides other troops from India. In explanation of that, Lord Crewe spoke of the keen desire of Indians to take part in the war and of the impossibility of any internal trouble in India which would require the presence there of the troops sent to Europe. "It is well known in India," he said, "that the African troops of the French Army have been assisting the troops in France of native origin, and I feel certain that it would be a disappointment to our loyal Indian fellow-subjects all the more on that account if they found themselves for any reason debarred from taking part in the campaign on the Continent of Europe. We shall find our Army reinforced by soldiers, ligh-souled men, of first-rate training, and representing an ancient civilisation, and we feel certain that if they are called upon they will give the best possible account of themselves side by side with our British troops in encountering the enemy."

It is not yet possible to state the exact number of troops eventually sent from India, but it will probably be found to be between 150,000 and 200,000. On the other hand a number of Territorials were sent to India from England, the first contingent, consisting of twelve battalions of infantry and eleven batteries of Field Artillery arriving at Bombay and Karachi early in November. These Territorial troops are to undergo a course of training which has for its object their preparation for active service in the field in the shortest possible time. The Commander-in-Chief considers the Kitchener test of 1904 to be the best all round standard for the purpose, which has been modified to meet the requirements of the present situation. (A list of the Territorial units in India, with the Stations to which they have been posted, is given on another page.)

Summary of Offers.

On September 9th, the following Telegram from the Viceroy to the Secretary of State was read in Parliament;—

"Following is a summary of offers of servicemoney, etc., made in India to the Viceroy.
The Rulers of the Native States in India, who
number nearly seven hundred in all, have with
one accord raliled to the defence of the Empire
and offered their personal services and the
resources of their States for the war. From
among the many Princes and Nobles who have
volunteered for active service, the Viceroy has
selected the Chiefs of Jodhpur, Bikmer, Kishangarh, Rutlam, Sachin, Patiala, Sir Pertab
Singh, Regent of Jodhpur, the Heir-Apparent
of Bhopal, and a brother of the Maharaja of
Cooch Behar, together with other cadets of
noble families. The veteran Sir Pertab would
not be denied his right to serve the KingEmperor in spite of his seventy years, and his
nephew, the Maharaja of Jodhpur, who is but
sixteen years old, goes with him.

"All these have, with the Commander-in-Chief's approval, already foined the Expeditionary Forces. The Maharaja of Gwalior and the Chiefs of Jaora and Dholpur, together with the Heir-Apparent of Palanpur, were, to their great regret, prevented from leaving their States. Twenty-seven of the larger States in India maintain Imperial Service Troops, and the services of every corps were immediately placed at the disposal of the Government of India on the outbreak of war. The Viceroy has accepted from twelve States contingents of cavalry, Infantry, sappers and transport, besides a camel corps from Bikaner, and most of them have already embarked.

"As particular instances of generosity and eager loyaity of the Chiefs the following may be quoted:—Various Durbars have combined together to provide a hospital ship to be called "The Loyaity" for the use of the Expeditionary Forces. The Maharaja of Mysore has placed Rs. 50 lakhs at the disposal of the Government of India for expenditure in connexion with the Expeditionary Force. The Chief of Gwallor, in addition to sharing in the expenses of the hospital ship, the idea of which originated with himself and the Begum of Bhopal, has offered to place large sums of money at the disposal of the Government of India and to provide thousands of horses as remounts. From Loharu in the Punjab and Las Bela and Kalat in Baluchistan come offers of camels with drivers, to be supplied and maintained by the Chiefs and Sardars. Several chiefs have offered to raise additional troops for military service should they be required, and donations to the Indian Relief Fund hasharaja of Rewa has offered his troops, his treasury, and even his private jeweilery for the service of the King-Emperor. In addition to contributions to the Indian Fundi, Some Chiefs—namely, those of Kashmir, Bundi, Orchha, and Gwalior and Indore—have also

given large sums to the Prince of Wales' Fund. of the Punjab, the Khalsa Diwan representing The Maharaja of Kashmir, not content with orthodox Sikhs, the Bohra Community, and subscribing himself to the Indian Fund, presided at a meeting of 20,000 people held recently at Srinagar and delivered a stirring speech, in response to which large subscriptions were collected.

"Maharaja Holkar offers, free of charge, all horses in his State Army which may be suitable for Government purposes. Horses have also been offered by Nizam's Government, by Jamnagar, and other Bombay States. Every Chief in the Bombay Presidency has placed the resources of his State at the disposal of Government, and all have made contributions to the Relief Fund. Loyal messages and offers have also been received from the Mehtar of Chitral and tribes of the Khyber Agency as well as the Khyber Rifles. Letters have been received from the most remote States in India, all marked by deep sincerity of desire to render some assistance, however humble, to the British Government in its hour of need.

Last, but not least, from beyond the borders of India have been received generous offers of assistance from the Nepal Durbar; the military resources of the State have been placed at the disposal of the British Government and the Prime Minister has offered a sum of three lakhs of rupees to the Viceroy for the purchase of machine guns or field equipment for British Gurkha Regiments proceeding over seas, in addition to large donations from his private purse to the Prince of Wales' Fund and the Imperial Indian Relief Fund. To the 4th Gurkha Rifles, of which the Prime Minister is Honorary Colonel, the Prime Minister has offered Rs. 30,000 for the purchase of machine guns in the event of their going on service.
The Dalai Lama of Tibet has offered 1,000
Tibetan troops for service under the British
Government. His Holiness also states that Lamas innumerable throughout the length and breadth of Tibet are offering prayers for success of British Army and for happiness of souls of all victims of war.

"The same spirit has prevailed throughout British India. Hundreds of telegrams and letters have been received by Viceroy expressing loyalty and desire to serve Government either in the field or by co-operation in India. Many hundreds have also been received by local administrations. They come from communities and associations, religious, political, and social, of all classes and creeds, also from individuals offering their resources or asking for opportunity offering their resources or asking for opportunity to prove loyalty by personal service. The following may be mentioned as typical examples:—The All India Moslem League, the Bengal Presidency Moslem League, the Moslem Association of Rangoon, the Trustees of the Aligarh College, the Behar Provincial Moslem League, the Central National Mahomedan Association of Calcutta, the Khoja Community and other followers of Aga Khan, the Punjab Moslem League, the Mahomedans of Eastern Bengal, the Citizens of Calcutta, Madras, Rangoon, and many other cities, the Behar Landholders Association, the Madras Provincial Congress Committee, the Taluqdars of Outh the Punjab Chiefs' Association, the United Provinces Provincial Congress Committee, the Taluqdars of Outh the Punjab Chiefs' Association, the United Provinces Provincial Congress Committee, the Taluqdars of Outh

"The Delhi Medical Association offer the field hospital that was sent to Turkey during Balkan War; Bengalee students offer enthusiastic services for an ambulance corps, and there were many other offers of medical aid. The Zemindars of Madras have offered 500 horses. and among other practical steps taken to assist Government may be noted the holding of meetings to allay panic, keep down prices, and maintain public confidence and credit. Generous contributions have poured in from all quarters to Imperial Indian Relief Fund."

In presenting the above statement to Parliament Lord Crewe said that similar offers had reached the Secretary of State from Chiefs who happened to be in Europe. The Gaekwar of Baroda and the Maharaja of Bharatpur, to mention two only, had placed the whole resources of their States at the disposal of His Majesty's Government. The Indian community in England, including the Indian students, had made loyal offers of services. He felt confident that the House and the country would feel deep appreciation of this magnificent demonstration of the loyalty with which the Princes and peoples of India had identified themselves with the cause of the Empire.

The Aga Khan also offered all his resources and to serve in the ranks of any Indian regiment.

Messages from the King-Emperor.

In opening the session of his Council on September 8, the Viceroy read the following message addressed to the princes and peoples of India by His Majesty the King-Emperor:—

" During the past few weeks the peoples of my whole Empire at home and overseas have moved with one mind and purpose to confront and overthrow an lunparalleled assault upon the continuity, civilisation and peace of mankind.

"The calamitous conflict is not of my seeking. My voice has been cast throughout on the side of peace. My Ministers carnestly strove to alay the causes of strife and to appeare differences with which my Empire was not concerned. Had I stood aside when, in defiance of pledges to which my Kingdom was a party, the soil of Belgium was violated and her cities laid desolate, beginn was voneed and acretices and desonate, when the very life of the French nation was threatened with extinction, I should have sacrificed my honour and given to destruction the liberties of my Empire and of mankind. I rejoice that every part of the Empire is with ma in this decision. me in this decision.

"Paramount regard for treaty faith and pledged word of Rulers and peoples is the common heritage of England and India.

"Amongst the many incidents that have marked the unanimous uprising of the popula-tions of my Empire in defence of its unity and integrity, nothing has moved me more than the passionate devotion to my Throne expressed both by my Indian and English subjects and by Feudatory Princes and Ruling Chiefs of India and their prodigious offers of their lives and

their resources in the cause of the realm. Their one voiced demand to be foremost in conflict has touched my heart and has inspired to highest issues the love and devotion which, as I well know, have ever linked my Indian subjects and myself. I recall to mind India's gracious message to the British nation of good-will and fellowship which greeted my return in February 1912, after the solemn ceremony of my Coro-nation Durbar at Delhi, and I find in this hour of trial a full harvest and a noble fulfilment of the assurance given by you that the destinies of Great Britain and India are indissolubly linked."

Later, when the first contingent of Indian troops landed in France, they were greeted with the following message from the King:—

"I look to all my Indian soldiers to uphold the Izzat of the British Raj against an aggres-sive and relentless enemy. I know with what sive and relentless enemy. I know with what readiness my brave loyal Indian soldiers are prepared to fulfil this sacred trust shoulder to shoulder with their comrades from all parts of the Empire. Rest assured you will always be in my thoughts and prayers. I bid you go forward and add fresh lustre to the glorious achievements and noble traditions of courage and chivalry of my Indian Army, whose honour and fame is in your hands."

Speech by the Viceroy.—In presenting the King's first message H. E. Lord Hardinge explained in greater detail the situation described by His Majesty in the first few sentences of that message. Referring to the deep loyalty and attachment of the Indian people to the Throne, he said that the fact that the Governmone, he said that the lact that the Government of India were in a position to help the mother country by the despatch of such a large proportion of our armed forces was a supreme mark of his absolute confidence in the fidelity of our troops and in the loyalty of the India receipt. the Indian people. He went on to say:-

"It was moreover with confidence and pride that I was able to offer to His Majesty the finest and largest military force of British and Indian troops for service in Europe that has ever left the shores of India. I am confident that the honour of this land and of the British Empire may be safely entrusted to our brave soldiers, and that they will acquit themselves nobly and ever maintain their high traditions of military chivalry and courage. To the people of India I would say at this time—Let us display to the world an attitude of unity, of self-sacrifice and of unswerving confidence under all circumstances in the justice of our cause and in the assurance that God will defend the right."

Sir Gangadhar Chitnavis then moved a resolution, which was seconded by the Raja of Mahmudabad, expressing the opinion that the people of India, in addition to the military assistance now being afforded by India to the Empire, would wish to share in the heavy financial burden now imposed by the war on the United Kingdom, and requesting the Government of India to take this view into consider-India with the Empire. The result of that resolu-tion was to be seen a few days later in Parliament. ation and thus to demonstrate the unity of India with the Empire. The result of that resolu-

Expense of the Indian Force.

On September 16, the Prime Minister moved in the House of Commons:-" That His Majesty. having directed a military force, consisting of British and Indian troops, charged upon the revenues of India, to be despatched to Europe for service in the War in which this country is engaged, this House consents that the ordinary pay and other ordinary charges of any troops so despatched, as well as the ordinary charges of any vessels belonging to the Government of India that may be employed in this expedition which would have been charged upon the resources of India if such troops or vessels had resources of India if such troops or vessels had remained in that country or seas adjacent, shall continue to be so chargeable, provided that, if it shall be necessary to replace the troops or vessels so withdrawn by other vessels or forces, then the expense of raising, maintaining and providing such vessels and forces shall be repaid out of any moneys which may be provided by Parliament for the purposes of the said expedition" said expedition."

In support of the motion Mr. Asquith said that in all the moving exhibitions of patriotism evoked by the war none had more touched the feelings of the Country than the response which the princes and people of India had made to the need of Great Britain. He went on to explain that in consequence of the provisions of Section 55 of the Government of India Act, 1858, it was not constitutionally right or proper to charge upon the revenues of India, except in the case of actual invasion or of sudden and unforeseen emergency, the cost of troops that might be sent outside that country. The assent of both Houses of Parliament was needed before any such charge could be imposed upon the revenues of India.

Mr. Bonar Law, who seconded the resolution, said this assistance from India came not from force, but from good will, and he believed that if came because on the whole everyone who left England to take part in the Government of India, from the Viceroy to the humblest official, was inspired by the tradition that it was his duty not to exploit India for the benefit of England, but to rule it for the good of the people of India. We had, he said, made misslers but on the whole we had succeeded and people of India. We had, he said, made his-takes, but on the whole we had succeeded and it was because, in the main, the people of India recognised that was the spirit in which the Government was carried on, that England had received their assistance in the hour of need. After further speeches, by Sir. John Jardine and others, the question was put and agreed to.

Statement by the Under-Secretary of State.—In the House of Commons on November 26, Mr. C. Roberts, Under Secretary for India, moved a motion, which was agreed to, relating to the expenses of the Indian Expeditionary to the expenses of the Indian Expeditionary Force. He explained that two months previously the Prime Minister moved a resolution which the House had sanctioned, giving consent to the payment from Indian revenues of the ordinary charges of the British and Indian troops dispatched to Europe. That resolution did not sanction the application of Indian revenues to pay the cost of the military operations outside India in non-European areas, and it

make any profit or saving out of the absence of the troops which she would have had to pay for if they had remained in India; and it had therefore been agreed, with the unanimous assent of the Legislative Council, that Indian resources should continue to bear the extraordinary expense while Great Britain bore the extraordinary expense.

After a tribute to the work done in the field by Indian troops, and to the enthusiastic support given by the Indian princes, Mr. Roberts said:-A wave of instinctive and emotional loyalty has swept over the people of India. But it would be unfair not to recognize that besides this there is among the Indian educated classes a loyalty based on reason and the recognition of facts. It is at times less warmly expressed, but it is none the less substantial. It is sensible of the undeniable benefits conferred by British rule. It regards not to put the case too high—the present regime as the best working arrangement for India. It is satisfied that within the framework of the Empire legitimate hopes and aspirations can in due time be met. I think that this more sober sentiment finds expression also among those Moslems who cannot but feel the strain on their religious sympathies imposed by the insensate folly of Turkey's attack upon the British Empire. Men like the Nizam of Hyderebad or the Aga Khan have been unhesitating in the advice they have given to those with whom their views naturally carry weight. Indian Moslems have, I believe, made up their minds that their secular allegiance is due to the King-Emperor. They know that their religion obtains the amplest toleration and respect in the British Empire and that the idea that the present war is a religious war is an absurdity. The matter is perhaps summed up in the remarks of an Indian Musulman: "Why should anyone question the loyalty of India? Is it not our Empire too?"

The raids of the "Emden".—While the ships of the East Indies Squadron and other ships of the Royal Navy in Indian waters were convoying transports from Bombay and Karachi and sateguarding the mail routes, considerable damage was done to British shipping by the "Emden." That German cruiser was particularly active in the Bay of Bengal, off Ceylon, and in the neighbourhood of the Maldive and Laccadive Islands. An Admiralty statement issued in the latter part of October, announced that up to that time only 27 British merchant ships had been accounted for by the enemy, but of that number a large proportion had been such by the "Emden." As a result the Shipping Companies experienced considerable difficulty in obtaining lascar crews.

On Sept. 22 the "Emden" arrived off Madras shortly after dark and shelled the town, doing much damage to some oil tanks and to various houses on the sea front as well as to shipping in harbour. Madras is not fortified and is unprovided with search lights, but a battery there opened fire on the "Emden", with the result that she at once put to sea. A Press Communique issued by the Madras Government shows that three were killed and sixteen wounded during the attack, the killed being J.S. Fletcher, a cadet on the S.S. "Chupra", an Indian police constable, and a watchman of the Burma Oil Company.

Among the wounded were six Europeans on the S.S. "Chupra." The moral effect of this attack was to some extent felt in other sea ports from which migration up-country was recorded; and a feeling of uneasiness continued until it was announced, early in November, that the "Emden" had been sunk off the Cocos (Keeling) Islands.

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The following is a list of the "Emden's"
victims :-
Indus ..
                  3,393 6,102
Lovat ..
                         Taken and sunk in the
              • •
Killin
                  3,514
                            Bay of Bengal Sept.
              ••
Diplomat
                  7,615
                            10-14.
              ٠.
Trabbock
                  4.014
              ..
Kabinga
                  4,657
                          Taken and released
Sept. 12.
Clan Matheson .
                  4.775
                          Sunk Sept. 14.
                  3,650
King Lud
              • •
Foyle ..
                  4,147
                         Sunk Sept. 30.
              . .
Riberia
                  4,147
              ٠.
                  3,314
Tymeric
              ..
Buresk ...
                  4,350
                          Captured Sept. 30.
                         Taken and released
Sept. 30.
Gryfedale
                  4,437
                  4,049
                          Taken by Emden, re-
leased by H. M. S.
Pontoporos
                            Yarmouth. Oct. 16.
Troilus ..
                  7,562
              • •
Clan Grant
                  3,948 | Captured and sunk
              • •
Benmohr
              ٠.
Chilkana,
                            Oct. 20.
                  5,146
              . .
Ponrabbel
                    473
Exford ..
                  4,542
              • •
                          Captured Oct. 20.
Saint Egbert
                  5,526
Jemchug (Russian Crui-
                         Sunk Penang Oct. 30.
  ser.)
Mousquet (French Des-
  troyer).
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The War with Turkey.

It was announced on November 1 that war had broken out between His Majesty's Government and Turkey. On the previous day a Press Communique had been issued at Simla detailing the Turkish attacks on Odessa and Russian ships and indicating the consistently aggressive attitude of the Turkish Government adopted at German instigation. The purchase by Turkey of the German men-of-war the Goeben and Breslau was followed by the sowing of mines in the Dardanelles and the detention of British merchant vessels, and eventually by the closing of the Dardanelles. Another reason for grave disquictude had been the unfriendly treatment by responsible Turkish officials in Baghdad and Mesopotamia of British subjects Bagina and hisopotamia of British subjects and the open incitement of the population by the Turkish official circles against Great Britain and her Allies. Notwithstanding all this provocation His Majesty's Government intimated that if Turkish were substituted for German crews on the Goeben and Breslau if British merchant shipping control of the design of the strength of the stren merchant shipping were not impeded, and if Turkey would honourably carry out the duties of a neutral State, not only would all these illegalities and hostile acts be overlooked, but that a solemn and written guarantee would be given that Great Britain would scrupulously respect the independence and integrity of the Ottoman Empire. Furthermore, assurances were given that at the conclusion of peace Great Britain that at the conclusion were laid down

which would impair that independence and integrity and that economic conditions of a character favourable to Turkey would be obtained. In spite of these assurances the attitude of Turkey towards Great Britain became increasingly provocative.

Further Provocations by Turkey.—The Press Communique went on to describe military preparations in Syria obviously designed to facilitate an attack on Egypt. German intrigues were set on foot in Syria, Egypt and elsewhere with a view to inciting the people to take part in this conflict and reports were even received of the despatch of Turkish emissaries to India with the object of stirring up anti-British feelings among Indian Mahomedaus,

The Communique concluded by saying:—Great Britain the greatest Mahomedan "Great Britain, the greatest Mahomedan power in the world and the faithful and consistent friend of Turkey, whom she has stead-fastly helped to maintain her position in Europe and to recover her stability, which was shaken in the Balkan War, would see with the greatest regret that Turkey had been decoyed into ranging herself on the side of England's enemies and into adopting an attitude as unjustified as it would be ungrateful, but it cannot be denied that the present situation shows that there is a chauvinistic element endeavouring to drive Turkey into war with England for the benefit of Germany and of Austria, the secular enemy of the Turkish State." Additional information as to the course of events leading normation as to the course of events leading up to the war with Turkey was subsequently published in an official White Paper. This contained a record of the efforts of Germany to corrupt the Moslems and afforded an indisputable testimony of Great Britain's patience, despite Turco-German acts of provocation and intrigues, and of her solicitude for Moslem interests. It also showed that Enver Pasha, the Turkish War Minister, almost alone among the cabinet wished for war early in August.

Attitude of India.—German intrigues and the teachings of belliose Pan-Islamites failed to wean Indian Mahomedans from their loyalty to the British Raj. From Mahomedan Leagues and Associations all over India the Viceroy received resolutions deploring the action of Turkey and thanking Government for the assurance that the Holy Places would be immune from attack. The Nizam of Hyderabad issued a Farman in which he said:—"Let it be generally known that at this critical juncture it is the bounden duty of the Mahomedans of India to adhere firmly to their old and tried loyalty to the British Government especially when there is no Moslem or non-Moslem power in the world under which they enjoy such personal and religious liberty as they do in India and when moreover they are assured by the British Government, that, as it has in the past, always stood the best friend of Islams ow will it continue to be Islam's best friend and will always protect and cherish its Moslem subjects."

The Aga Khan also sent a message to Indian Mahomedans in which he said:—"No Islamic interest was threatened in this war and our religion was not in peril. Nor was Turkey in peril, for the British and Russian Empires and the French Republic had offered solemnly

to guarantee Turkey all her territories in complete independence if she had remained at peace. Turkey was the Trustee of Islam and the whole world was content to let her hold our Holy Cities in her keeping. Now that Turkey has so disastrously shown herself a tool in German hands she has not only ruined herself but has lost her position of Trustee of Islam and evil will overtake her. Turkey has been persuaded to draw the sword in an unholy cause from which she could not but be ruined, whatever else happened, and she will lose her position as a great nation; for such mighty Sovereigns as the King Emperor and the Tsac can never be defeated. Thousands of Moslemare fighting for their Sovereign already and all men must see that Turkey has not gone to war for the cause of Islam or for the defence of her independence. Thus our only duty as Moslems now is to remain loyal, faithful and obedient to our temporal and secular allegiance."

At a meeting held in Bhopal further evidence manifold and manifold was given by the Begum of Bhopal, who, in the course of an address, said:—'I have every hope that my subjects will show their customary zeal in carrying out my wishes and I have no doubt but they will follow me and my ancestors and predecessors as well as their own forbears, in remaining firm in their loyality and devotion to the British Crown. I also expect my co-religionists to act on the advice I have ventured to offer them while I, gentlemen, am and will always remain loyal to the treaties which exist between the Bhopal Durbar and the British Government and which are binding on me, not only as a true follower of Islam, but also as a Ruling Chief under the protection of the British Government."

The Nawab of Rampur, in a proclamation issued to his subjects, pointed out that the war was not sought by the British Government, and that the British cause, was a just one. He therefore enjoined his subjects and invited all Mahomedans in India to remain steadfast in their loyalty, and to do everything in their power to further the British cause, which is also the Indian cause. A manifesto issued by the Nawab of Tonk, after expressing His Highness's regret that Turkey should have embarked upon this war, ignoring both the innumerable favours received from Great Britain and the fact that vast numbers of her co-religionists enjoy full religious freedom and pass their lives in peace under-the protection of Great Britain, declared that it is the bounden duty of all Mahomedans in India to be loyal and faithful to the British Empire, and to leave nothing undone to prove that loyalty.

An official communique, published at Delhi on November 29, stated:—"In reply to a letter announcing the outbreak of war between Great Britain and Turkey, His Excellency the Viceroy has received a most cordial and friendly acknowledgment from His Majesty the Amir, who had aiready declared his firm intention to maintain the neutrality of Afghanistan, in the present war. His Majesty in friendly terms expresses regret that the Ottoman Government should have embarked on war with Great Britain." A few days later a rescript from the Shah of Persia was published announcing the neutrality of Persia.

The Holy-Places.—The Mahomedan public was further reassured by a Government announcement in regard to the Holy Places of Arabia, including the Holy Shrines of Mesopotamia and the Fort of Jedda.

"These Holy Places and Jedda," it said, "will be immune from attack or molestation by the British Naval and Military forces so long as there is no interference with pilgrims from India to the Holy Places and Shrines in question. At the request of His Majesty's Government, the Governments of France and Russia have given them similar assurances."

Trade and Finance and Exchange.

One of the first questions which had to be solved by the financial authorities in India on the outbreak of the war was the support of Exchange. The Indian Government have Exchange. The Indian Government have to meet in London every year what are called the Home Charges—interest on the debt, pay and pensions, and the cost of purchasing stores. These are ordinarily met by the balance of trade in favour of India, and are financed by the sale of Council Bills by the Secretary of system sale of Council Bills are unsaleable: indeed there may for arise a demand for remittances from India to London, and if this is not met from the Gold Reserve Fund or other sources exchange must break. It is unfortunate in many respects that the occurrence of the war found the Indian currency system in a state of flux. The Secretary of State and his financial advisers for many years maintained that securities were as good as gold; a strong body of opinion in India has held the view that in time of crisis nothing could take the place of gold. The effect of the policy pursued by the Secretary of State is that the major portion of the Gold Reserve Fund, created out of the profits on coining to meet Home Charges or an adverse balance of trade, was invested: and the recommendation of the Currency Commission strongly to increase the gold holding in Reserve was too recent to be acted upon. As was anticipated, the declaration of war pro-duced an immediate demand for Sterling Bills on London, or Reverse Councils as they are sometimes called. It took a little time to adjust the necessary machinery, but a Notifi-cation was issued early in August, that the Government of India would sell sterling bills or telegraphic transfers on London at gold export point, up to a million a week. On one occasion only, the first week, was this million taken up: the weekly biddings rapidly dropped until on November 5 none were taken, but the demand revived later and has persisted longer than was anticipated. This arises in consi-derable degree from the paralysis of the cotton industry, for the export of cotton from Bombay is the chief staple in the trade of the closing months of the year, and the Continent is, with Japan, the chief purchaser of the Indian staple. On page 179 the weekly allotments of sterling bills up to November 12 is given: the subsebills up to November 12 is given: the subsequent figures are November 19, £390,000; November 26, £560,000; December 3, £560,000; December 10, £371,000. The demand for Council Bills has, strange to say, existed on a small scale side by side with the demand for

Sterling Bills in India. But the extent to which the Secretary of State is behind with his remittances may be gleaned from the last official return, which shows the following results:—Amount estimated in the Financial Statement to be remitted during 1914-15, £20,000,000: remitted from 1st April, 1914 to 12th December 1914, by Council Bills, £4,388,477: balance to be remitted from 18th December 1914, to 31st March 1915, £15,611,523 The Secretary of State has met his immediate needs by borrowing in London, where his Bills have met with a ready demand.

Currency.—The next pre-occupation of the Government of India lay with the currency. Whilst the circulation of notes in India has shown considerable expansion of recent years, especially since arrangements were made for the encashment of notes of low denominations in all parts of India, in time of crisis the Indian in all parts of India, in time of crisis the Indian pins his faith to metal, and in an increasing degree to gold. Fortunately the war found the Paper Currency Reserve in a very strong position indeed. It held in India 34 crores of silver coin and bullion and 18.36 crores of silver coin and bullion and 18.36 crores of the coin and the degree of the gold and gold bullion. It was the desire of the financial authorities to give gold freely on demand; but it became evident that gold was being withdrawn from the reserve not for legitimate purposes, but to sell sovereigns at a premium to the ignorant. Consequently the authorities placed an absolute embargo on the issue of gold. Thereafter there was a considerable rush to exchange notes for silver, but the reserve was so strong that this rush was never embarrassing. The transfer of the rupees in the Gold Reserve Fund to the Paper Currency Reserve in exchange for sovereigns, the ac-cumulation of silver in payment for Reserve Councils and the rapid restoration of confidence in the convertibility of the Note Issue kept the silver reserve at such a high figure that the Government were never embarrassed on this account. The detailed statements are given on page 178.

Finances.—The questions connected with exchange and currency took precedence over the general questions of finance. These arose later. Fortunately the war opened when the Government were in an exceptionally strong financial position. The cash balances at the end of July amounted to 30 crores of rupees, or seven crores in excess of the estimated figure. These balances began rapidly to fall. This is the season of the year when the revenue collections are small, and two important heads were seriously affected by the war—the railway receipts and the Customs revenue. Moreover the Government of India had to meet heavy charges in India on account of the great ex-peditionary forces which were sent to Europe, Egypt, the Persian Gulf and East Africa. There was also a partial run on the Post Office Savings Banks, against which no cash reserve is held. On the other hand the Government of India's balances had not to meet the drain felt when the Secretary of State is selling Council Bills freely. A fair idea of the influence of the war on internal finance up to October of the present year as compared to the corresponding period of 1918 can be derived from an analysis of the Statement of Receipts and Payments at the Civil Treasuries in India. It is shown that

the Land Revenue has decreased 66 lakhs and the Customs are behind by 63 lakhs. The Total Civil Expenditure this year was 173 lakhs higher. The Issues from Post Office came to 750 lakhs more than last year. The net Marine Expenditure was 271 lakhs greater and the Military Issues were 250 lakhs more. The Railway Receipts were behind by 184 lakhs. Council Bills sales this year were 1,511 lakhs short. Government have taken loans aggregating six million pounds. The Cash Balance decreased in October by 961 lakhs and closed at 1.380 lakhs.

Trade.-Unfortunately the outbreak of the war found the trade of India in a very unsatisfactory position. For nearly twelve months there had been very heavy over-trading in the great head of the import trade-piece-goodswith the result that there was an unprecedented accumulation of stocks which had their reflex action in the accumulation of stocks of cloth and yarn made in the Indian mills. Moreover there was a growth of these stocks after the war broke out, as goods ordered a long time previously came pouring in. The situation was aggravated when the middlemen, through whom the bulk of the trade passes, realised all available assets and sought refuge in their homes from the imaginary terrors of the war. Then the rapid decline in the values of cotton carried the inference that very soon new supplies would be coming forward at prices far below those at which these great stocks were laid down. This accumulation of stocks of piecegoods has hung like a pall over the Indian market, depressing a situation which otherwise would have been strong. Then the rains of 1914 were abundant and well-distributed. In the normal course of events we might have looked for a very prosperous season, as the harvest of export crops was large. But the Continent of Europe is a large buyer of Indian produce-cotton, jute and oilseeds; this market was almost closed. The staple export trade of Western India is cotton, and for cotton there is a very small demand. Again, when signs of a revival of confidence set in the raids of the Emden alarmed the timid and caused a set-back. Calcutta was the first to experience a revival, as the demand for two of her great staples, jute and tea, was exceedingly good-A recent message from Calcutta (December 15) announced that business was very much as usual. But Bombay at the close of the year lay under the shadow of a sluggish demand for cotton and a huge stock of piecegoods, which coming after the disturbance of the financial situation caused by the failures of the Swadeshi Banks (q v pp. 248-252) hindered any strong revival of business. The results of the war on trade are clearly shown in the following official summary of imports and exports for the current year—the year commencing April 1st:-During the seven months ended October, 1914, 1913, the value of imports declined by Rs. 17-93 responding seven months of 1913.

crores to Rs. 87.46 crores and the total exports declined by Rs. 26.96 crores to Rs. 112.12 crores. The export of Indian merchandise show a decrease of Rs. 27.06 crores or 19.8 per cent., whilst the exports of Foreign Merchandise show an increase of Rs. 9.69 lakhs, The grand total of imports, exports and reexports amounted to Rs. 199.58 crores as against Rs. 244.47 crores.

In an article on foreign trade since the outbreak of war, the Indian Trade Journal at Christmas time said the important influences which have been at work since the outbreak of war to reduce the volume of India's overseas trade may be summarised as follows :-(1) The closing of markets on the cessation of commercial relations with the enemy countries : (2) the curtailment of trade with France and Belgium; (3) the restriction of trade with neutral nations; (4) the scarcity of tonnage since a large number of merchant vessels were required for the transport of troops; and (5) the restriction of the free movement of trading vessels owing to the raids of an enemy cruiser in the Indian Ocean. Exports from India declined 44 per cent. in August, 61 per cent. in September, as compared with 45 per cent. and 37 per cent., respectively, for these months in the case of the United Kingdom, Exports from India in October showed a decline of 54 per cent, as compared with October, 1913, as against 39 per cent. in the case of the United Kingdom. Imports for August and September into India declined by 20 and 56 per cent., respectively, while in the United Kingdom they declined 24 and 26 per cent. for these months. Imports into India in October showed a decline of 25 per cent., as against 28 per cent. in the imports of the United Kingdom. These comparisons are with the corresponding months of 1913.

The hampering conditions referred to in the preceding paragraph were most severe in September. A decrease of 61 per cent, in exports and 56 per cent, in imports sufficiently illustrates this. The trade returns for October show a decrease of 54 and 25 per cent.—an indication that Indian commerce was then moving in the direction of normal conditions.

Imports of Treasure declined by Rs. 4.99 crores to Rs. 14.33 crores. Gold bullion fel by Rs. 3.34 crores to Rs. 6.06 crores and sovereigns by Rs. 3.73 crores to Rs. 1.82 crores, while Silver bullion improved by Rs. 1.93. crores to Rs. 5.86 crores. Exports of Treasure also declined by Rs. 2.59 crores to Rs. 2.77

The tonnage of vessels entered at ports in British India from Foreign countries and British Possessions with cargoes during the seven months April to October 1914, amounted to 3,246,151 tons, and the tonnage cleared to 3,723,803 tons, as against 3,823,627 tons entered and 4,743,865 tons cleared during the cor-

SUMMARY TABLE showing the VALUE of Imports and of Exports of Foreign Merchandise, of Exports of Indian Merchandise and of Total Exports for each month in the two previous years, and; for the completed months of the current year :-

			IMPORTS.		Exports, Foreign Merchandise.				
, 		1912-13.	1913-14.	1914-15.	1912-13.	1913-14.	1914-15.		
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
Apriil		13,96,22,664	15,04,15,524	14,49,63,703	40,63,508	42,03,952	39,23,09		
May	٠.,	11,62,92,735	14,30,53,963	13,58,96,906	48,07,085	38,28,617	35,00,06		
June		10,46,51,140	12,22,43,850	12,68,19,583	37,30,030	35,35,165	40,42,42		
July		11,69,67,158	14,47,61,327	14,00,30,230	42,03,669	37,71,878	51,28,50		
August		12,04,77,715	16,13,04,289	12,92,62,767	36,45,157	35,38,556	23,07,75		
September		14,63,68,071	16,65,18,547	7,39,86,111	36,65,242	32,24,402	40,35,88		
October		15,01,96,005	16,55,65,522	12,36,12,013	40,24,876	34,90,712	36,35,10		

		EXPORTS, INDIAN MERCHANDISE.			TOTAL EXPORTS.		
-]	1912-13.	1913-14.	1914-15.	1912-13.	1913-14.	1914-15.
-		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
April May June July August		20,90,27,623 20,66,33,199 20,21,48,966 20,47,67,333	21,03,17,624 19,29,48,029 17,53,93,368 20,25,74,635	20,41,12,296 21,04,42,737 21,42,58,128 19,17,26,336	20,89,70,002	21,45,31,576 19,67,76,646 17,89,28,533 20,63,46,513	20,80,35,387 21,39,42,798 21,83,008 19,68,54,840
September October	•••	17,25,12,967 18,07,29,705 20,42,66,542	17,24,09,032 19,47,77,977 21,68,38,522	7,56,47,131	18,42,94,947	17,59,47,588 19,80,02,379 22,03,29,234	10,11,87,17 7,96,83,01 10,32,30,75

Measures of Precaution.

The export of Welsh coal and of various articles capable of being used as military or naval stores was prohibited, and a schedule issued of what articles would be treated as absolute contraband and conditional contra-

One of the first effects of the war was a rise

and municipalities. In Bombay, for example, an Advisory Committee was formed for regulating prices, and the prices fixed by them from time to time were published in the Government Gazette.

Special Ordinances were proclaimed dealing inter alia with the position of enemy aliens in India, and a camp for prisoners of war was established at Ahmednagar to which several in the price of foodstuffs but this was met by hundred German and Austrian males were sent firm action on the part of the local governments from all parts of India and from East Africa. Censorship of News.—Immediately after the declaration of war twas notified that "in view of the recent declaration of war with Germany and the extreme necessity of maintaining secreey regarding military and naval movements the Governor-General proposes to promulgate the ordinance prohibiting the publication of news relating to the movements and dispositions of His Majesty's forces of two works undertaken for the defence of the British Empire, save where such information has been approved by a Government censor. Any contraventions of the provisions of the ordinance will onstitute an offence and any matters so published will be liable to confiscation. Prosecutions under the ordinance will only be speed.

allowed upon complaints made or under authority from the Governor-General in Council, a local Government or an officer empowered in this behalf by the Governor-General in Council and will be triable only by District and Sub-Divisional, or Presidency Magistrates."

An Indian Army Order notified, in November, that, in addition to enlistments under existing conditions, enlistments in the Regular Army would be opened in India under certain conditions for men between 19 and 35 years of age. These enlistments will be for a period of three years with the colours, or if the war lasts longer for the duration of the war; if, however, the war lasts for less than three years the men so enlisting will be discharged with all convenient speed.

Prize Courts.—The Courts specified in the first column of the Schedule below have been due constituted Prize Courts in territories under the Government of India. The officers named in the third column have been authorised to conduct Prize Proceedings on behalf of the Crown in respect of cargoes on the detained enemy vessels named in the second column, and to these officers all enquiries with regard to British or neutral cargoes shipped on these vessels should be addressed.

Prize Court.	Name of enemy vessel.	Officer to whom all enquiries should be addressed.
High Court of Judicature, Calcutta .	Perla. Trostburg. Frankenfels. Freienfels. Rotenfels. Pagenturm. Kurmark.	Solicitor to Government.
High Court of Judicature, Bombay .	Rheinfels. Warturn. Karadeniz.	Ditto.
Court of the Judicial Commissioner in Sind, Karachi.	Braunfels.	Government Pleader of the Judicial Commissioner's Court, Sind.
Chief Court of Lower Burma, Rangoon.	Alesia.	Government Advocate,
Court of the Resident, Aden	Wartenfels. Lindenfels. Erzherzog. Franz Ferdinand. Varzin.	Second Assistant to the Political Resident, Aden.

Relief Funds.

On the initiative of His Excellency the Viceroy a large sum of money was raised in India for the relief of distress caused by the war. A central committee was formed, over which the Viceroy presided, and which included the Governor of Bengal, the Governor of Madras, the Governor of Bengal, the Governor of Madras, the Governor of Bombay and the Commander, inc. Chief, the members of H. E. the Viceroy Executive Council the heads of other Local Governments and Administrations and the following Ruling Chiefs:—Their Highnesses the Maharaja of Bikaner, the Begum of Bhopal, the Maharaja of Gwalior, the Nizam of Hyderabad, the Maharaja of Indore, the Maharaja of Jaipur, the Maharaja of Indore, the Maharaja of Jaipur, the Maharaja Regent of Jodhpur, the Maharaja of suitable garments.

of Kashmir, the Maharao of Kota, the Maharaja of Mysore, the Maharaja of Patiala, the Maharaja of Rewa, and the Maharana of Udaipur.

Under its control an executive committee was formed and local branches were constituted. The treasurer of the Fund is Sir A. Kerr, and the joint secretaries are Mr. F. W. Johnston and Major John Mackenzie. Up to the time this book went to press, subscriptions to the fund amounted to over Rs. 65 lakhs.

Among the provincial offshoots of this fund is the Women's Branch of the Bombay Presidency Fund, which was started by Lady Willingdon, with the object of collecting comforts for the troops and of making up quantities of suitable garments.

The St. John Ambulance Association sent the following circular letter to all the three hundred centres of the Association in India:—

"England is now at war, and there is evidence of intense enthusiasm on the part of the public in this country and a great desire to help our troops in the field. One of the most important functions of a Red Cross or ambulance society is to direct such patriotic enthusiasm into correct channels, and I am to suggest that your centre should form a ladies' committee with the following objects:—(1) To collect funds; (2) to collect gifts of articles likely to be of use to troops on service; (3) to collect material for ambulance detachments should such be formed."

The report of the India Branch of the Association for the year ending September 30, 1914, says that at an important meeting of the Executive Committee in Simla, on August 12, it was decided to initiate forthwith adequate measures to supplement where necessary the ordinary medical and ambulance services of the country. Committees of ladies were forthwith organised at all Centres throughout India for the collection of articles likely to be needed for the sick and wounded, or money with which to purchase them, and a depot was opened at Bombay for their reception and shipment to the theatre of war. The enrolment was also arranged for of local detachments of ambulance workers, men and women combined, at as many stations in India as possible in readiness for service locally.

A depot for the reception and distribution of gifts was subsequently organised at Bombay.

Hospitals.—Adequate provision for the of the first needs thought of by the wealthy. On August 12 the Maharaja of Gwalior telegraphed to the Viceroy, on behalf of himself, the Nizam of Hyderabad, the Begum of Bhopal, the Maharajas of Jodhpur, Rewah and Datia, and a number of other ruling chiefs, offering a hospital ship of three hundred beds to be named "Loyalty": and this offer was accepted. The belonging to the Canadian Pacific Railway Company and she was chartered by the Maharaja of Gwalior for one lash of rupees per month. She contains about 500 beds and first sailed from Karachi for England in December.

Another Hospital Ship was provided by the Madras Presidency, to the fitting up of which a number of gifts in kind and in money were made by various societies and private individuals. This vessel, a new British India steamer, was ready by the middle of November under the charge of Col. G. G. Giffard.

The Director of Medical Services has prepared a number of selected hospitals for Indian troops, especially for those coming from East Africa and the Persian Gulf. These hospitals total about 1,600 beds.

about 1,000 beats.

In Bombay a hospital was prepared in the Prince of Wales Western India Museum, a building nearing completion, and by the beginning of November it was ready for use with accommodation for 108 patients and space for further expansion if necessary up to 250 beds. This hospital is known as the Lady Hardinge War Hospital. For the transport

up-country of the less seriously wounded, two hospital trains were prepared.

It was announced at the end of November that the Committee of the Bombay Presidency Branch of the Imperial Indian War Relief Fund had offered to provide a 500-bed hospital for Indian troops engaged in the war. This offer was accepted, and measures were taken for the organisation of this hospital, which, under the title of The Bombay Presidency Hospital is to be entirely equipped, staffed and maintained from the Bombay Presidency including Sind, and will be located, probably at some convenient base in Egypt, but at any place that the military authorities may, with a view to the requirements of the British Indian forces operating in the field, determine to be most desirable.

Contributions from Ruling Chiefs.—The manner in which the Ruling Princes subscribed to the various war funds, in addition to providing the Hospital Ship already mentioned, has been very generous and general. By the beginning of December they had given about £190,000 to the Prince of Wales' Relief Fund and the Indian Relief Fund and approximately £800,000 to the expenses of the war. This latter sum includes £400,000 from the Maharaja of Mysore. A further sum of nearly £30,000 was given to provide motor cycles, binoculars, telescopes; etc., and £24,500 of this was given by the Maharaja Scindia of Gwalior, who also gave a motor ambulance of 41 cars for the use of the troops in Europe and arranged for the establishment of a convalescent home in East Africa. Besides their gifts many Chiefs presented large numbers of horses, mules and camels and even gave their own private motor cars. Finally it should be remembered that a number of Imperial Service troops are now included in the expeditionary forces and are being maintained at the expense of their respective states.

Funds in England.—In addition to the work undertaken by the Imperial Indian Relief Fund, various agencies in England are contributing to the welfare and comfort of the Indian Expeditionary Force and giving help towards the care of their dependents in India. As statement, issued by the Secretary of State in October, explained that the organisation of additional hospital accommodation for the Indian troops of the force and the provision of extra comforts for them in the field had been undertaken, by authorisation of the Secretary of State for India and with the full concurrence of the Secretary of State for War, by the St. John Ambulance Association, which appointed a special Indian Soldiers' Fund Sub-Committee to deal with the many questions arising out of the special needs of our Indian Soldiers in Europe. The activities of this Sub-Committee, under the Chairmanship of Sir John Hewett, have taken two main directions. The first object was the provision of hospital accommodation, and it was found possible to provide at once a hospital of at least 500 beds from funds subscribed by the public. The second was to supplement the official supply of warm clothing and medical commots, sar well as other comforts, for the

troops in the field. The Sub-Committee established for these objects the Indian Soldiers' Fund on behalf of which the late Lord Roberts issued an appeal for subscriptions. In view of the fact that the Indian Sub-Committee in London of the St. John Ambulance Association has a special organisation, with official facilities, for the despatch of presents to the Indian troops, an appeal was made that other agencies for the same purpose should work in close co-operation with the Sub-Committee.

Indian Field Ambulance.—A statement was issued in London by the Press Bureau, in November, to the following effect:—

The Indian Field Ambulance Training Corps, under the command of Lieutenant-Colone R. J. Baker, Indian Medical Service (retired), is now in training in London and in its week-end camp at Eastcote.

A detachment of 30 men, including four medical officers (or civil medical practitioners), four clerks, four cooks, and 19 ward orderlies, has been supplied by the Corps, in response to a request from the War Office, and has started for Netley Hospital under the command of Lieutenant-Colonel Sharman, Indian Medical Service (retired), to serve in connection with the Indian troops. A further small detachment of nursing orderlies has been supplied by the Corps for emergency service on hospital ships. And the probability is that the War Office will make further requests for men to serve in similar capacities as time goes on. Recruits giving their services will, of course, come under millitary discipline, and will receive such pay as the War Office allows. The rates of pay offered up till now have been for clerks, cooks, and orderlies, 4s. a day; for subordinate medical assistants, 10s. a day; and for medical officers for civil medical practitioners), 20s. a day. In all cases hitherto rations and lodgings have also been provided. Qualified medical men are eligible for the better-paid positions. Students with medical training or with some experience of ambulance work can be very useful in nursing and interpreting, and others may be of use in ether ways.

Trade with the enemy.

The position of firms in India were wholly or partly German or Austrian is defined in a Press Communique which says:-Government are advised that one of the effects of a declaration of war is to dissolve ipso facto all contracts of partnership between British and enemy subjects. In the case, therefore, of firms where the partners are British and German or Austrian subjects the partnership would appear to be *ipso facto* dissolved, and the firms must decide whether they wish to carry on the business under British or German (or Austrian) management; and if Government are satisfied that the German or Austrian partners have in fact ceased to have any voice in the management of the firm, and due advertisement of the fact has been made, Government will be prepared, so far as Government are concerned, to recognise the remaining partners as successors in interest of the original firm and as British firms subject to the same duties and responsibilities that are imposed by the Royal Proclamation on all persons resident, carrying on business or being in the British Empire. The same principles will be applied where neutral subjects are partners with Germans or Austrians. In the case of firms which are wholly German or Austrian or decide to continue under German or Austrian management, a license under Royal Authority is necessary to enable them to continue their trade, and each application for such a license will be considered on its own merits with due regard to British interest.

On November 17, a notification under the Foreigners' Ordnances, 3, 7, and 8 of 1914, was published issuing an order to be known as the hostile foreigners trading order (where hostile foreigner, is to mean any subject of the German Empire, Austria-Hungary or of the Ottoman Empire, other than an Egyptian subject). It empowered local Governments to inspect all books of any company, firm, association or body of individuals and to require information to be given. Also to authorise a search of premises to ascertain whether business is being carried on by any hostile foreigner or by a firm of the same any individual or firm found to belong to this category is forbidden to carry on business except in accordance with any license that may be issued after application to the Government of India, submitted through the local Government concerned. Powers are also given for requiring all assets to be deposited with a receiver appointed by the local Government. Later in November it was notified that a general licence to trade in British India might be granted to a hostile firm if it satisfied the following conditions:—

- (1) That the company is registered in the United Kingdom or in a British possession.
- (2) That on the 3rd day of August 1914, such company was not the agent for any person carrying on a business or trade in the territories of any State now at war with His Majesty.
- (3) That on the 3rd day of August, 1914, not more than one-third of the issued share capital was held by, or on behalf of, and no appointment of director was held by any person or persons being subjects of any State now at war with His Majesty.
- (4) That on the 3rd day of August, 1914, no director, manager or other officer was a subject of any such State, and
- (5) That such company is not specifically excluded from the benefit of this general licence by a notification in the Gazette of India by the Governor General in Council in this behalf for the time beling in force.
- On November 30, an ordinance was notified, empowering the Governor-General in Council, generally also each Local Government individually, to call for information as to stocks of articles of commerce and to make searches for same, also to take possession of any stocks unreasonably withheld from the market, also to fix compensation for same.
- A Royal Proclamation, dated August 7, set forth the law and policy with regard to trading with the enemy and stated that "it is contrary to law for any person resident carrying on business, or being in OUR Dominions to trade or have any commercial intercourse with any person resident, carrying on business, or

being in the German Empire without our permission." A similar proclamation dealt with trade with Austria-Hungary, and the flect of them, so far as India is concerned, may be judged by the following statistics relating to the volume of India's trade with the belligerents. It appears from "The Review of the Trade of India in 1913-14" that the share of Germany in the import trade during that year was 6.9 per cent. against 64-1 per cent. of the United Kingdom, 5.8 per cent. of Java, 2.6 per cent. of Japan, 2.6 per cent. of the United States, and 2.5 per cent. of Austria-Hungary. Germany's share, in the export trade last year, was 10.3 per cent, against 23.7 per cent. of the United Kingdom, 9.2 per cent, of Japan, 8.9 per cent, of the United States, 7.1 per cent. of France, 4.9 per cent. of Belgium and 3.9 per cent, of Austria-Hungary.

The value of Indian trade with Germany last year, says the Director of Statistics, has inceased, costly British goods being largely displaced in India by German cheap manufactures. German manufactures have secured special advantaces by the application of technical skill, chemical science or a combination of both, in the supply of certain goods, such as musical instruments and mineral dyes from coal tar. The development of German shipping has also encouraged direct imports from, as well as export of cotton. Department,

hides, jute, oilseeds, and rice for manufactures, to Germany. Cotton manufactures, dyes, copper, iron and steel, machinery and woollens bulk in the import trade. The substantial improvement in exports is chiefly due to increased shipment of raw jute and cotton, and seeds. Special Officers were placed on duty to inquire into and report on the possibilities of the development of indigenous industries in the circumstances caused by the outbreak of war.

An exhibition of samples of imported German and Austrian goods was held at Calcutta in December under the direction of the Commercial Intelligence Department. The following classes of articles were exhibited: glass beads and glassware of various kinds; matches, soap, hardware including enanelled ironware, locks, hinges and safes, metal lamps, cutlery, etc., earthernware, pencils, brushes, toys, textiles, especially German shawls, blankets, fiannels, mixed silk and cotton velvets, Austrian shawls and braid. At the same time samples of Indian manufactures of similar classes of goods, and Indian manufactures were exhibited. Such an exhibition of samples will, it is hoped, be held this year at Bombay and Madras, if suitable arrangements can be made. A number of pamphlets dealing with the trade of Germany and Austria-Hungary with India has been issued by the Commercial Intelligence

Imports from Germany.

Some of the principal articles of merchandise imported from Germany into India during the year 1913-14.

· · ·			Article	·8.				Quantity.	Value.
									£
ement	••	••					cwt.	324,555	47,015
Chemicals and Chemi-	cal pr	parat	ions		••			`	84,072
Orugs and medicines	(total		••						69,802
Alizarine dyes	••		••	••			Ibs.	4,637,450	129,764
Aniline "	••						"	7,553,830	408,302
Glass and Glassware	(total		••			••			190,577
Hardware (excluding	cutle	ry and	olectro	plated	ware)				482,284
Copper (total)	••	••					cwt.	248,897	866,212
Sugar					••	••	"	14,071	12,217
Cotton goods (total)	••	••			••	••	"		944,504
Wool manufactures (includ	ling ya	arn) (to	tal)	••	•••		••••	716,384

Exports to Germany.

Some of the principal articles of merchandise exported from India to Germany during the year 1913-14.

			· Artic	les. · ·				Quantity.	Value,
	-								£
Coir, manufactur Dyeing and tanni	ed (excluing subst	ding ro	pe) (total)				cwt.	212,859 301,073	158,840 107,112
Grain, pulse and Rice, not in	flour (to the husk	tal)	::	::	::	::	** ,,	7,144,963 6,317,901	2,376,911 2,096,054
Barley Wheat	••	::	••	••	••		•• "	22,957 501,509	6,816 187,042
Hides, raw Skins, ,,		::	::	::	::	::	"	388,409 12,794	2,044,062 77,343
Lac Oil cake	:	• •	::	••	••	•••	"	52,764 379,185	182,811 100,009
copra	• ::	::	::	::	::	::	** "	4,052,978 479,797	2,740,318 657,628
Rape Linseed	::	• • • • • • • • • • • • • • • • • • • •	::	::	••	. ::	"	1,163,973 966,526	650,734 537,009
Groundnuts Sesamum	::	::	::	· :: ;	·-::	· ::	"	188,724 330,208	115,321 270,887
Mowa Castor		::	 	•	••	::	"	567,670 95,228	309,791 98,618
otton, raw ute, ,,	::	·::	••		••	::	tons	1,688,070 158,380	4,001,628 4,499,111
unny bags	••	::	::			::	No.	5,363,772 7,235,340	114,266 87,106

Trade with Austria-Hungary.

Some of the Principal articles of merchandise imported from Austria-Hungary into India during the year 1913-14.

Articles.	Articles.						
· · · · · · · · · · · · · · · · · · ·	<u>-</u> -	•	-	, I	£		
Glass and Glassware (total)		,			582,541		
Matches, safety and others Gross of boxes	••	••	••	1,376,762	64,446		
Sugar		••	cwt.	1,480,218	922,460		
Cotton manufactures (total)	••	••	••		225,152		
Wool manufactures (total)	••	••			77,028		

Some of the Principal articles of merchandise exported from India to Austria-Hungary during the year 1913-14.

		Artic	eles.				Quantity.	Value.
								£
Rice, not in the husk						cwt.	4,228,847	1,370,032
Hides, raw				••		"	237,829	1,229,392
Seeds (total)				••		٠٠ "	864,146	580,240
Sesamum					••	,,	386,842	310,290
Groundnuts .				٠		,,	214,114	111,729
Linseed			••			٠٠ ,,	130,004	73,305
Rape	. '	.,				٠ ,,	109,446	65,665
Cotton, raw	· ·	••		••		٠٠ ,,	747,041	1,949,417
Jute, ,,						tons	45,727	1,319,392
Gunny bags						No.	112,700	2,067
" cloth						yards	474,000	5,564

THE VICTORIA CROSS.

The announcement, made at the Delhi Durbar in 1911, that in future Indians would be eligible for the Victoria Cross gave satisfaction which was increased during the War by the award of that decoration to the following:

On the 31st October, in an action at Helleberke, No. 4050 Sepoy Khudadad, of the 129th Duke of Connaught's Own Baluchis, was with one of the regimental machine guns. The detachment was overwhelmed by numbers. One gun had been put out of action by a shell and the three men remaining with it were ordered to retire. The British officer in charge of the detachment was wounded. Sepoy Khudadad remained working the other gun until all the other five men of the detachment had been killed. He was wounded and has since been

able to rejoin his corps.

and to rejoin ms corps.

In the action of the night of the 23rd and 24th November, near Fezthubert, No. 1909
Naik Durwan Singh Negl, B. Company, 39th
Garhwal Rifles, 1st Battalion, when the regiment was engaged in re-taking and clearing the enemy out of our trenches, was from first to last one of the first to push round each successive traverse taken in the face of severe fire from bombs and rifles at the closest range. Although wounded in two places, in the head and also in the arm, he continued fighting amongst the foremost and did not even report himself wounded till he met his Company Commander after the action was over. Naik Darwan Singh Negi was summoned on the 5th December to the General Headquarters to receive his V.C. at the hands of His Imperial Majesty the King.

Land Rewards for Services.

A Press communique, published at Lahore in December, states:—In the original scheme for the colonization of the area commended by the Lower Bari Doab Canal it was decided to reserve 103,000 acres to be allotted to the military authorities for distribution as rewards to pensioned Indian officers and men. In conto pensioned indian omeers and men. In consequence of the participation of the Indian Army, which is so largely recruited from the Punjab, in the war, the number of cases in which the military authorities will desire to grant rewards of this nature for military services to both combetants and noncombetants. vices to both combatants and non-combatants who have distinguished themselves in the war or to their heirs, will, no doubt, be largely in-creased. The Lieutenant-Governor has accordingly arranged with the sanction of the Government of India to reserve a further area of 75,000 acres to be placed at the disposal of the military authorities for this purpose. The allotment of the whole area now reserved, about 178,000 acres, will be held over till the close of the war when the military authorities will be of the war when the military auditoriuss will we in the best position to make the necessary selections. The grantees will be able to obtain occupancy rights in the land without any special payment five years after the commencement of the tenancy in each case, and after a further marked of sur years will be artified to further period of five years will be entitled to further period of five years will be entitled to purchase full proprietary rights at half the market value of the land, subject to a maximum of Rs. 100 an acre. The payment of the purchase money will be spread over a period of 30 years, if the purchaser so desires. In

addition military pensioners, who may receive the grants, will also be eligible for selection as tenants of the official rectangles which will be allotted on horse breeding conditions.

Territorial Troops in India.

The following is a complete list of the British units who arrived in India in 1914 in relief of the British troops who have gone to the front, together with the stations to which they have been posted:-

Wessex Division.

Commanding, Major-General Donald, C. B.

D. A. A. and Q. M. G., Major Mudge, the Queen's Regiment.

A. D. C. Lieut. Merewether, Wiltshire Regt.

Devon and Cornwall Brigade.

4th Duke of Cornwall's Light Infantry (Major Smith), Bareilly.

4th Devonshire Regiment (Lt.-Col. Acland Troyte), Ferozepore.

5th Devonshire Regiment (Lt.-Col. Hawker), Multan.

6th Devonshire Regiment (Lt.-Col. Radcliffe). Lahore.

South-western Infantry Brigade.

4th Somerset Light Infantry, (Lt.-Col. Cox), Madras.

5th Somerset Light Infantry (Lt.-Col. Cooke-Hurle,) Ambala.

4th Dorsetshire Regiment, (Lt.-Col. Bayter) Ambala,

4th Wiltshire Regiment (Col.-the Earl of Radnor). Delhi.

Hampshire Infantry Brigade.

4th Hampshire Regiment, (Lt.-Col. Bowker), Poona.

5th Hampshire Regiment (Lt.-Col. Burford Hancock), Allahabad.

6th Hampshire Regiment (Lt.-Col. Playfair),

7th Hampshire Regiment. (Lt.-Col. Parke), Bombay.

Field Artillery of Wessex Division.

First Wessex Brigade.

Commanding Lt.-Col. Choke.

1st Hampshire Battery (Major Flowers), Lahore.

2nd Hampshire Battery (Major M. House), Peshawar.

3rd Hampshire Battery (Major P. House), Lahore.

Second Wessex Brigade.

Commanding Lt.-Col. Powell.

4th Hampshire Battery (Major Malcolmson), Lucknow.

5th Hampshire Battery (Major Thompson), Lucknow.

Third Wessex Brigade.

Commanding Lt.-Col. Bedford Pim.

6th Hampshire Battery (Captain Carrell), Ambala.

Wiltshire Battery, (Major the Earl of Suffolk), Delhi.

Dorsetshire Battery (Major Livingstone Learmonth), Bareilly.

Fourth Wessex Brigade.

Commanding Lt.-Col. Talbot.

1st Devonshire Battery (Lt.-Col. Perowne), Allahabad.

2nd Devonshire Battery (Major Vickers). Dinapore.

3rd Devonshire Battery (Major Arden), Barrackpore.

Surrey Infantry Brigade.

4th Royal West Surrey Regiment, Secunderabad.

5th Royal West Surrey Regiment, Lucknow.

5th East Surrey Regiment, Cawnpore.

6th East Surrey Regiment, Fyzabad. Kent Infantry Brigade.

4th East Kent Regiment. Mhow.

5th East Kent Regiment, Kamptee.

4sh Royal West Kent Regiment, Jubbulpore.

5th Royal West Kent Regiment, Jhansi. Middlesex Infantry Brigade.

9th Middlesex Regiment, Dinapore.

10th Middlesex Regiment, Fort William.

4th Shropshire Light Infantry, Rangoon. 4th Border Regiment, Maymyo.

1st Home Counties Brigade. R.F.A.

1st Sussex Battery, Kamptee,

2nd Sussex Battery, Mhow. 3rd Sussex Battery, Mhow.

2nd Home Counties Brigade, R.F.A.

4th Sussex Battery, Ambala.

5th Sussex Battery, Multan.

6th Sussex Battery, Ferozepore.

3rd Home Counties Brigade. R.F.A.

1st Kent Battery, Jubbulpore.

2nd Kent Battery, Jubbulpore.

3rd Kent Battery, Jubbulpore.

Racing in India.

	35- Curaria Valorina (9at) A Formuon 9
Calcutta. The King-Emperor's Cup. Distance 1 mile.—	Mr. Gussy's Valerius (8st.), A Ferguson 2 Mr. Goculdas' Matchlock (7st. 11lbs.) A.
	Hoyt 3
Mr. Goculdas' Arthur B. (8st 13 lbs.), Ruiz 1 Mr. T. Scott's Cider (9st.) A. Khun	Mr. Harrison's Vancouver (7st.), Harrison . 4
H. H. The Kour Saheb of Patiala's Le	Prince of Wales' Plate.—
Soleil (9st 3lbs.) Templeman 3	Mr. Galstaun's Shining Way (7st. 13lbs., carried 8st. 1lb.), J. Trenoweth 1
Mr. R. S. Kempion (9st. 3lbs.) 4	carried 8st. 1lb.), J. Trenoweth 1 Mr. R. R. S'.s Criton (8st. 12lbs.), P.
The Viceroy's Cup. Distance 17 mile.—	Brown
Mr. R. R. S.'s Bachelor's Wedding (9st) P. Brown	Mr. Garda's Lumination (9st.) W. Southall . 3 Mr. Thaddeus' Watch Tower (8st.)
Mr. Goculdass' Arthur B. (8st 7lbs.) Ruiz 2	
Mr. Galstaun's Shiningway (9st 3 lbs.), J. Trenoweth	The Merchants' Plate. Distance 11 miles.—
Mr. Thaddeus' Spicy Bit (9st 3lbs.) A. Ferguson	Mr. Galstaun's Shining Way (8st. 12lbs.), J. Trenoweth
The Governor's Cup. Distance R. C. (1 mile	Mr. Chowdhury's Millner (9st. 2lbs.) Ames . 2
5 furlong 58 yards).— Mr. Goculdas Matchlock (8st. 7lbs.), A.	Mr. Thaddeus' Wayward and Wild (7st. 12lbs.) A. Ferguson 3
Hoyt 1	Mr. Bartlet's St. Andrews (6st. 12lbs. carried 7st. 3lbs.) Smyth 4
Mr. Galstaun's Shining Way	Burdwan Cup. Distance R. C. and a distance over seven flights.—
	Mr. Goculdas' Picnic (11st 3lbs.), A. Hoyt 1
13ibs.), Bullock J	Mr. Ray Chowdhary's Jemima (9st 10lbs.),
The Metropolitan. Distance 6 furlongs.— Mr. Goculdas' Primrose Morn (9st. 3lbs.)	Williamson 2
Ruiz 1 Mr. Thaddeus' Watchtower (8st. 11b)	Mr. Thaddeus' Wayward and Wild (9st 10lbs.), T. Ferguson 3
J. Trenoweth 2	International Pony Plate,—
Mr. Goculdas' Soultine (7st. 7lbs.), A. Hoyt	Mr. Goculdass' Refresher (9st 13lbs.), Ruiz 1
Mr. R. R. S'.s Criton (8st. 12lbs.), P.	Major Holden and Mr. J. D. Scott's Lad Marchmint (9st 7lbs.), P. Brown 2
The Macpherson Cup. Distance St. Leger Course. (1 mlnute 6 furlong 132 yards).—	Mr. Gussy's Spring Daisy (9st) 7lbs.). Templemar
Mr. R. R. S's Mayfowl (9st. 9lbs.), P.	Mr. Powell's The Flapper (late > Dead heat 3 Blue Duck) (9st 3lbs.),
Brown 1	Murdison.
	E GYMKHANA.
Governor's Cup. Distance—1 mile.—	Mr. D. Hunter's Gipsy King (10 st. 8 lbs.), 2
Mr. C. N. Donetil's Larkspur (11 st. 3 lbs.), Mr. Roddick	Money Down (10 st. 7 lbs.), Owner 3
Mr. E. C. Davi's Bioscope (11 st. 2 lbs.), Mr. Evers Mr. C. Kinnimouth's Prince Charlie (11 st. 2 lbs.) Mr. Padmers	r. Tanner's Cartridge (10 st. 11 lbs.), Owner
Mr. A. C. Saver's Cigarette (0 -t = 1)	Ballygunge Cup. Distance about one and a half miles.—
Mr. E. H. Sayers Club Stakes. Distance—5 furlongs.—	Mr. L. Edward's Ahduk (10 st. 3 lbs.), Mr. Walker
Mr. Donetil's Blackwell (11 st. 5 lbs.), Mr.	Mr. R. Hasluck's Stirling (9 st. 7 bs., carried
	TEEPLECHASES.
Indian Grand National Distance 2 metros	
Mr. Samond Walker's Tommy Daw (Oct	Tollygunge Plate.—
	Captain Astor's Sidbrooke (12st, 7lbs.) Hilliard
Captain Astor's Sidbrook (12st. 4lbs.) Mr. Hilliard	Mr. Walker's Tommy Daw (9st. 13lbs.) Mr. Roddick
Mr. J. D. Scott's Sea Lad (11 st.) Mr. Evers. 3	Dr. Taylor's Acons Tad (Ost.) McNeilage . 8
Doctor Taylor's Aconalad (9st. 7lbs.), Mac- neilage	Mr. J. Scott's Sea Lad (10st. 4lbs.). Mr.
	Evers 4

Bombay.
The Byculla Club Cup. Distance 1½ miles.—
Mr. M. Goculdass' Pretty Good Short (7st.
3 lbs.), Purtoo Singh 1
Mr. J. C. Galstaun's Shining Way (8st. 11lbs.), Ruiz
H. H. Kour Sahib's Hamara (6st. 7lbs.), Harrison
The Turf Club Cup. Distance 11 miles.—
Messrs. M. Goculdass and P. Mathuradass' Mexico (7st. carried 7st. 2lbs.) Hoyt 1
Mr. Ali bin Talib's Gowahajmer (7st. 5lbs.), Duller
Messrs. M. Goculdass and N. Mathuradass' Nakib (9st. 8lbs.), Ruiz
The Grand Western Handicap. Distance about 1 mile, 1 furlong.—
Mr. M. Goculdass' Soultline (7st. 2lbs.),
Mr. R. R. S's Mayfowl, (9st. 10lbs.), Brown. 2 Mr. M. Goculdass' Matchlock (8st. 5lbs.), Ruiz
Mr. M. Goculdass' Matchlock (8st. 5lbs.), Ruiz
The Bombay Derby. Distance 1½ miles.— Nawab Najaf Ali Khan's Sir Knight (8st.
3lbs.), A. Ferguson
Major F. B. Prideaux's Young Hyderi (6st. 10lbs.), Kaikhosroo
Mr. Ali bin Talib's Black Malik (8st.), Zam- mil
The Bombay City Plate. Distance 1½ miles.—
Mr. R. R. S's Kempion (9st. 10lbs.), Brown. 1 Mr. J. C. Galstaun's Shining Way (9st. 3lbs.)
Ruiz 2
Mr. Kelso's Hilarity (9st. 3lbs.), Sampson 3 The Mansfield Plate. Distance 6 furlongs.—
Messrs. Goculdass and Mathuradass' Forfeit (7st. 3lbs.), Purtoo Singh 1
Mr. R. R. S.'s Criton (8st. 9lbs.), Brown 2
Mr. T. M. Thaddeus' Watch Tower (7st.
The Willingdon Plate. Distance about 7
furlongs.— Mr. R. R. S.'s Kempion (10st. 7lbs.),
Brown
Purtoo Singh
The Malabar Hill Plate. Distance 6 fur-
Mr. R. R. S's Kempion (9st. 10lbs.), Brown. 1
Mr. M. Goculdass' Primrose Morn (9st. 3lbs.), Ruiz
Mr. M. Goculdass Polish (9st. 3lbs.), A. Hoyt
Poona.
The Governor's Cup. Distance—R. C. and
Distance.— Genl. Nawabzada Obaidulla Khan's Purity (8 st. 2 lbs.). Bowley
Genl. Nawabzada Obaidulla Khan's Haify
(6 st. carried 6 st. 8 lbs.), Japhet 2

Messrs. Goculdass and Mathuradass' Mexico (8 st. 2 lbs., carried 8 st. 4 lbs.), Ruiz .. 3 The Western India Stakes, Distance-11 mile.— Mr. Goculdass' Refresher (7 st. 4 lbs.). Purtoosingh Mr. Goculdass' Matchlock (8 st.), Sardar Singh . . Mr. Oomer's Dalmatia (9 st. 2 lbs.), Hill . . 3 The Turf Club Cup. Distance-11 miles .-Genl. Nawabzada Obaidulla Khan's Singer (8 st. 3 lbs.), Bowley Mr. Ali bin Talib's Gowahajmer (7 st. 7 lbs. carried 7 st. 10 lbs.' Zammil . . Capt. Egerton's Longboat (6 st.), Kamad . 3. The St. Ledger Plate, Distance-R. C. and Distance -H. H. the Kour Saheb of Patiala's Mil (6 st. 7 lbs.), Japeth H. H. the Kour Saheb of Patiala's Hamara (7 st. 7 lbs.), Purtoosingh Mr. Kelso's Cherrywood (8 st. 9 lbs.), Brown 3 The Aga Khan's Cup. - Distance 11 miles. Mr. Galstaun's Shining Way (9 st. 3 lbs.), A. Ferguson H. H. the Kour Saheb of Patiala's Jacamar (8st. 1 lb.), Pratt .. 2 Mr. Kelso's Cherrywood (8st 1 lb.) W. Sampson The Poona Derby. Distance-11 miles.-Mr. Mahomed's Beyrut (9 st.), Brown Mr. Ali bin Talib's Black Malik (8 st. 3 lbs.), Pratt.. Mr. R. R. S.'s Kayid (6 st. carried 6 st. 6 lbs.), Purtoosingh . . The Tria Plate. Distance-1 mile .-Mr. R. R. S.'s Kempion (9 st. 3 lbs.), Brown 1 H. H. the Kour Sahib of Patiala's Jacamar (8 st. 1 lb.), Pratt Mr. Garda's Lumination (8 st. 10 lbs.), . Ruiz Mr. Galstaun's Shining Way (9 st. 3lbs.), A Ferguson Lucknow. Great Oudh Handicap. Distance-6 furlongs.-Sirdar Jewan Singh's Hyrem (9 st. 3 lbs.), Mr. Rosco's Rupert II. (8 st. 10 lbs.), Ruiz, 2 Messrs. Lion and Skimmer's Brandy II. (7 st. 10 lbs.),

Sirdar Jewan Singh's Hyrem (9 st. 3 lbs.), Quinn
Mr. Rosco's Rupert II. (8 st. 10 lbs.), Ruiz. 2
Messrs. Lion and Skimmer's
Brandy II. (7 st. 10 lbs.),
A. Hoyt
Major Hebal Mahomed Khan's
Salisbury (7 st., carried 7 st. 4 lbs.), Andrews

Military Handicap Chase. Distance—2½ miles.—
Mr. Thomas' Councillor (9 st. 10 lbs.) Major Kearns
Mr. Campbell's Mimicry (9 st. carried 9 st. 2 lbs.), Thursby st. 2 lbs.)

Capt. Kenworthy's Sholto (12 st. 1 lb.),	Mr. Desuza's Boxer, Majeed 2
Owner	
Mr. Fleming's Simson (12 st.) Capt. Hilliard	
Civil Service Cup. Distance—6 furlongs.—	The Civil Service Purse. Distance—5 furlongs.— Horner's Denver, Willet1
Mr. Goculdass' Kiora (9 st. 3 lbs.), Ruiz 1 Mr. Alec's Village Girl (10 st. 5 lbs.), Bow-	Maharaja of Bhavnagar's Just, Meynell 2
ley	di anno di anggaran managaran di anggaran di
The Kour Sahib of Patiala's Alice (10 st. 2 lbs.), Murdison	
Mr. Goculdass' Beryl (10 st. 7 lbs.) A. Hoyt 4	Cooch Behar Cup. Distance—1 mile. (Presented by H. H. the Maharajah of Cooch
Army Cup.—Abandoned owing to the war. Delhi.	sented by H. H. the Maharajah of Cooch Behar).—
Indian Cavalry Grand Annual Chase, Dis-	Mr. Galstaun's, Convent Girl, (10 st. 5 lbs.),
tance—2½ miles.—	Ferguson
Mr. W. Coventry's Bayard (12 st. 4 lbs.), Owner	Mr. Ghose's, Healoya (7 st. 10 lbs.),
Capt. A. M. Daniel's Flying Hackle (10 st.	Mitchell 3
12 lbs. carried 11st. 10 lbs.), Owner 2 Capt. Caldwell's Caradof (late Gus) (11 st.	1
4 lbs. carried 11 st. 8 lbs.), Capt. Bradley 3	The Bareilly Gold Cup.—
Mr. G. Fellowe's Murgha (9 st. 8 lbs. carried 10 st. 8 lbs.), Owner 4	Messrs. Cheape and Wienholt's Needles (8 st. 5 lbs.), Trahan
Matheran.	Major Holme's Shamrock (8 st. 12 lbs.), Northmore
Willingdon Plate. Distance—6 furlongs.—	Mr. Sydney Smith's Sirenia (8 st. 4 lbs.), Durga
Mr. Ebrahim Mana's Ready Money (9 st. 3 lbs.), Mujeed	
Mr. Shaikh Esmail's Malayeb (9 st. 8 lbs.),	The Bareilly Grand National.— Mr. Fleming's Red Lucifer (12 st.), North-
oyeu 2	more 1
Mr. Ahmed Azami's Crisis (9 st. 13 lbs.), Nama	Mr. Fagan's Terra Firma (10 st. 12 lbs.),
Lahore.	Mr. Thursby 2
ieutenant-Governor's Cup.—	Major Barnard's Bright Metal (11 st. 4 lbs.), Mr. Doyle
Mr. Kennedy's Kader Beg (9st 11 lbs.) 1	Meerut.
Capt. White's Lazim (10st. 11lbs.) Owner 2	Meerut Gold Cup. Distance—8 furlongs.—
Mr. Muller's Narin (10st. 10 lbs.), Mr. Bernard	Mr. Binning's, Sahana (7 st. 7 lbs.), Melsom. 1
Lahore St. Leger. Distance—11 miles.—	Sirdar Jiwan Singh's, Ormy (10 st. 7 lbs.),
Mr. Flemming's Sabona (11 st. 7 lbs.).	Northmore 2
Lumby .	Captain Weinholt's, Needles, (7 st. 2 lbs.), Japeth
Mr. Sydney Smith's Adalina (8 st. 5 lbs. carried 8 st. 6 lbs.), Sackville	Jodhpur Cup. Distance—21 miles.—
Capt. Lee's Ringette (7 st. 9 lbs.), Jaffir 3	Major Walter's, Kesmeldon, (11 st. 7 lbs.),
Rawalpindi.	Mr. Cray 1
uniah Army Cun Dietanas Continu	Capt. Daniel's Flying Hackle (11 st.)
Filcher Arram (11 st. 7 lbs.), Capt.	Royal Calcutta Turf Club Steeplechase.
Major McGown's Peter Doody (11 st. 2 lbs.)	Distance—21 miles.—
Coventry Major McGown's Alexius (11 st. 8 lbs.), Capt. Doyle	Major Walter's, Kesmelden, (10 st. 5 lbs.), Williamson
reat Northern Plate, Distance—7 furlance	Sirdar Jiwan Singh's, Glenlyon, (11 st.), Northmore
Kour Sahib of Patiala's Housemaid (12 st.	Mysore.
Kour Saheb of Patiala's Vigour (11 st. 11	The Maharajah of Mysore Cup. Distance—11 miles.—
Capt. Odlum's Bit-O'-Sugar (10 st. 3 lbs.),	Mr. Kelso's Cherrywood (8 st. 3 lbs.), Kai- kooshroo
Capt. Lee's Interest (10 st. 3 lbs.), Co-	The Yuvaraja of Mysore's Little Speed (7
Mahableshwar.	The Kour Sahib of Patiala's Hamara (8 st.
he Governor's Cup. Distance—1 mile.—	9 10s.), Pratt 3
Sheik Ismail's Malayeb, Coaker 1	Col. J. Desaraj Urs' Five Crown (8 st. 5 lbs.), Melsom
	Meisoni

The Warrandels Com Distance 7 furlance	
The Yuvaraja's Cup. Distance—7 furlongs.—	Col. Beville's Mayourneen (11 st. 3 lbs.).
Mr. Ali Mahomed Saith's Aubrey (10 st. 7 lbs.), Pratt	Andui
Mr. A Sattar's Ismailia (10 st. 3 lbs.), Fer-	Secunderabad. The Grand Annual Hurdle Handicap. Dis-
guson 2 Col. Aubrey Jones' R. G. (7 st. 7.lbs.),	tance—1½ miles.—
Melsom 3	Major J. G. Rotton's Astrologer (10 st. 2 lbs.), Capt. Cairnes
Rangoon.	Mr. H. H. Buckley's the Ghost (11 st.), Capt. Denning
Rangoon Derby.—	Mr. S. A. Sandford's Paddy (10 st. 2 lbs.),
Mr. Saik Kee's Sein Nyun (late Butcha) (8 st. 1 lb.), Vincent	Owner 3
Hon, Chintrong's Golden Fly (8st. 3 lbs.), Mr. Gabell 2	Bangalore. Maharajah of Mysore's Cup. Distance—1 mile
Mr. Chintrong's That One (9 st. 2 lbs.), Mr.	and 640 yards.— The Kour Sahib of Patiala's Hamara (9
Billett 8 Mr. Burjorjee's Outlaw (8 st. 10 lbs.), Treno-	st.), Pratt 1
weth 4	Mr. M. Yunis' Glendook (7 st. 9 lbs.), Crowden
Won by two lengths. Time.—1 min., 43 1-5 secs.	Mr. A. Sattar's Vavasor (8 st. 2 lbs.), Ferguson
Ambala.	Mr. D. B. Captain's Sugar Loaf (9 st. 7
Royal Calcutta Turf Club Handicap. Distance—7 furlongs.—	The Bangalore Cup. Distance—11 miles.—
Mr. Manmohan's Lady Spring (9 st. 5 lbs.),	Mr. Kelso's Cherrywood (9 st. 9 lbs.), Pratt
Ruiz 1	Mr. D. B. Captain's Sugar Loaf (9 st.), W.
Mr. Hajee Ali Mahomed Saith's Aubrey (7 st.), Harrison 2	Southall 2
Mr. Rossco's Rococo (10 st. 9 lbs.), Trahan 3	Mr. R. R. S.'s Criton (9 st. 12 lbs.), Kaik- ooshroo
Capt. Makintosh's Rosy Guard (8 st. 11 lbs.), Northmore	Karachi.
Simla.	The Sind Club Cup. Distance—1 mile.—
The Hardinge Cup. Distance 7 furlongs.—	Mr. Woodward's, Sunspot (10 st. 7 lbs.) Hill 1
	75 70 (1.11 m.11) (m.11) (m.11)
Mr. Rossco's Uslan (9 st. 7)	Mr. Deverteiul's, Talib, (7 st.), Gumai 2
Mr. Rossco's Uslan (9 st. 7) lbs.), Colonel Mussenden Dead heat. 1 Mr. Bosworth Smith's Indore (8 st. 7 lbs.), Trahan	Mr. Deverteiul's, Talib, (7 st.), Gumai 2 Captain Meynell's, Good Success (8 st. 10 lbs.), Southall
Mr. Bosworth Smith's Indore (8 st. 7 lbs.), Trahan Mr. Ford Sackville's Kashmir (9 st. 10 lbs.),	Captain Meynell's, Good Success (8 st. 10
Mr. Bosworth Smith's Indore (8 st. 7 lbs.), Trahan Mr. Ford Sackville's Kashmir (9 st. 10 lbs.), Mr. Mulliner	Captain Meynell's, Good Success (8 st. 10 lbs.), Southall
Mr. Bosworth Smith's Indore (8 st. 7 lbs.), Tahan) Mr. Ford Sackville's Kashmir (9 st. 10 lbs.), Mr. Mulliner 2 Mr. Rossco's Rupert (11 st. 3 lbs.), Captain De Pass 3	Captain Meynell's, Good Success (8 st. 10 lbs.), Southall
Mr. Bosworth Smith's Indore (8 st. 7 lbs.), Tahan Mr. Ford Sackville's Kashmir (9 st. 10 lbs.), Mr. Mulliner Mr. Rossco's Rupert (11 st. 3 lbs.), Captain De Pass The Duff Cup. Distance—6‡ furlongs.— H. H. the Kour Sahib's Lucky Maid (11 st.),	Captain Meynell's, Good Success (8 st. 10 lbs.), Southall 3 The I. C. S. Cup. Distance—11 furlongs.— Mr. Brigstocke's Matdie, (10 st. 2 lbs.), Hill . 1 Capt. Meynell's, Miller's Daughter, (10 st. 7 lbs.), Hoyt 2 Mr. Muller's, All's well, (8 st. 10 lbs.), Bar-
Mr. Bosworth Smith's Indore (8 st. 7 lbs.), Tahan Mr. Ford Sackville's Kashmir (9 st. 10 lbs.), Mr. Mulliner 2 Mr. Rossoo's Rupert (11 st. 3 lbs.), Captain De Pass 3 The Duff Cup. Distance—6½ furlongs.— H. H. the Kour Sahib's Lucky Maid (11 st.), Colonel Mussenden 1	Captain Meynell's, Good Success (8 st. 10 lbs.), Southall 3 The I. C. S. Cup. Distance—11 furlongs.— Mr. Brigstocke's Matdie, (10 st. 2 lbs.), Hill . 1 Capt. Meynell's, Miller's Daughter, (10 st. 7 lbs.), Hoyt 2 Mr. Muller's, All's well, (8 st. 10 lbs.), Barossa 3
Mr. Bosworth Smith's Indore (8 st. 7 lbs.), Tahan Mr. Ford Sackville's Kashmir (9 st. 10 lbs.), Mr. Muller	Captain Meynell's, Good Success (8 st. 10 lbs.), Southall 3 The I. C. S. Cup. Distance—11 furlongs.— Mr. Brigstocke's Matdie, (10 st. 2 lbs.), Hill . 1 Capt. Meynell's, Miller's Daughter, (10 st. 7 lbs.), Hoyt 2 Mr. Muller's, All's well, (8 st. 10 lbs.), Bar-
Mr. Bosworth Smith's Indore (8 st. 7 lbs.), Tahan Mr. Ford Sackville's Kashmir (9 st. 10 lbs.), Mr. Mulliner	Captain Meynell's, Good Success (8 st. 10 lbs.), Southall
Mr. Bosworth Smith's Indore (8 st. 7 lbs.), Tahan Mr. Ford Sackville's Kashmir (9 st. 10 lbs.), Mr. Mulliner Mr. Rosso's Rupert (11 st. 3 lbs.), Captain De Pass The Duff Cup. Distance—6½ furlongs.— H. H. the Kour Sahlb's Lucky Maid (11 st.), Colonel Mussenden Captain Lee's Winkey (10 st. 3 lbs.), Jaffer Sirdar Jewan Singh's Fortunate Lady (10 st. 12 lbs.), Captain Holmes The Staff Cup. Distance—6 furlongs.— The Staff Cup. Distance—6	Captain Meynell's, Good Success (8 st. 10 lbs.), Southall
Mr. Bosworth Smith's Indore (8 st. 7 lbs.), Trahan Mr. Ford Sackville's Kashmir (9 st. 10 lbs.), Mr. Mulliner Mr. Rossco's Rupert (11 st. 3 lbs.), Captain De Pass Mr. Bossco's Lucky Maid (11 st.), Colonel Mussenden Colonel Mussenden Laptain Lee's Winkey (10 st. 3 lbs.), Jaffer Sirdar Jewan Singh's Fortunate Lady (10 st. 12 lbs.), Captain Holmes 3	Captain Meynell's, Good Success (8 st. 10 lbs.), Southall
Mr. Bosworth Smith's Indore (8 st. 7 lbs.), Tahan Mr. Ford Sackville's Kashmir (9 st. 10 lbs.), Mr. Mulliner Mr. Rosso's Rupert (11 st. 3 lbs.), Captain De Pass The Duff Cup. Distance—6½ furlongs.— H. H. the Kour Sahib's Lucky Maid (11 st.), Colonel Mussenden Captain Lee's Winkey (10 st. 3 lbs.), Jaffer Sirdar Jewan Singh's Fortunate Lady (10 st. 12 lbs.), Captain Holmes The Staff Cup. Distance—6 furlongs.— H. H. the Kour Sahib's Alice (11 st. 5 lbs.),	Captain Meynell's, Good Success (8 st. 10 lbs.), Southall
Mr. Bosworth Smith's Indore (8 st. 7 lbs.), Tahan Mr. Ford Sackville's Kashmir (9 st. 10 lbs.), Mr. Mulliner Mr. Rosso's Rupert (11 st. 3 lbs.), Captain De Pass The Duff Cup. Distance—6‡ furlongs.— H. H. the Kour Sahib's Lucky Maid (11 st.), Colonel Mussenden Captain Lee's Winkey (10 st. 3 lbs.), Jaffer Sirdar Jewan Singh's Fortunate Lady (10 st. 12 Jbs.), Captain Holmes The Staff Cup. Distance—6 furlongs.— H. H. the Kour Sahib's Alice (11 st. 5 lbs.), Col. Mussenden 1 Sirdar Jewan Singh's Birthday (12 st.),	Captain Meynell's, Good Success (8 st. 10 lbs.), Southall
Mr. Bosworth Smith's Indore (8 st. 7 lbs.), Tahan Mr. Ford Sackville's Kashmir (9 st. 10 lbs.), Mr. Mulliner	Captain Meynell's, Good Success (8 st. 10 lbs.), Southall

The Muttra Cup.-

Capt. R. W. Manderson, Capt. H. E. Medlecott, and Mr. G. C. G. Gray (3rd Skinner's Horse).

The Kadir Cup.-

Captain Medlecott (3rd Skinner's Horse).

Gujarat Cup.—

Mr. Gray (3rd Skinner's Horse).

Salmon Cup.-

Mr. Gray (3rd Skinner's Horse).

HOC	KEY.
All-India Tournament (Allahabad).—	Bangalore Tournament.—
North-Western Railway 5 goals	
1st Bn., Royal Scots 1 goal	7th Hussars 3 goals
Beighton Tournament (Calcutta).—	St. Joseph's College 1 goal
Aligarh College 3 goals	Ajmere Tournament.—
Jamalpore (E. I. Ry.) 2 goals	Loco. Department (R. M. Ry.) 6 goals
Aga Khan Tournament (Bombay).—	44th Infantry 2 goals
Grant Medical College 2 goals	Alderson Tournament (British Troops)
2nd Dorsets Nil.	2nd Dorsets 1 goal
Junior Aga Khan Tournament (Bom-	R. F. A. (Kirkee) Nü.
· bay)	Alderson Tournament (Indian Troops).—
St. Xavier's High School 1 goal	· · · · · · · · · · · · · · · · · · ·
Byculia E. S. School Nü.	95th Russell's Infantry 1 goal
Inter-Garrison Tournament (Bombay).—	105th Mahrattas Nil.
79th Coy., R. G. A 1 goal	Divisional Tournament (Poona).—
E. Coy. (Cyclists). B. V. R Nü.	95th Russell's Infantry 1 goal
Elton Tournament (Bombay).—	105th Mahrattas Nü.
Byculla E. S. School 5 goals.	Indian Army (Eastern Command)
St. Mary's School	Tournament.—
Madras Tournament.—	93rd Burma Infantry 4 goals
13th Brigade, B. F. A: 5 goals Madras Vol. Artillery	13th Rajputs 2 goals
Madras Vol. Artillery	Laver Tournament (Secunderabad).—
	King's Light Infantry 3 goals
Ath Worcestershire Regiment 2 goals	7th Dragoon Guards
Bechtler Tournament (Cawnpore).	Cognoor Tournament.
Oudh and Rohilkhand Ry 4 goals	04 7 11. 0.11 0
Cawnpore Sports Club 3 goals	"F." Coy. "The Buffs" Nil.
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	TBALL.
(Association.)	Punjab Tournament (Ambala).—
I. F. A. Shield (Calcutta).—	Connaught Rangers 1 goal
King's Own Regiment 1 goal Calcutta Football Club	King's Royal Rifles Nü.
	Murray Tournament (Lucknow).—
Rover's Tournament (Bombay).—	Seaforth Highlanders 1 goal
Abandoned owing to the War, Madras Tournament.—	Royal Scots
Toyol North Year	Harwood League (Bombay).—
Norfolis Dogimana	Senior—Sherwood Foresters
Notion Regiment Nü.	Junior—Bombay Gymkhana " A "
LAWN 1	ENNIS.
Punjab.	Ladies' Doubles.—
Men's Singles.—	I .
Atkinson beat Mahomed Naqi (6-0) (6-2)	Mrs. Gracey and Mrs. Muspratt Williams beat Mrs. Leslie Jokes and Bibi Amrit Kaur (6-2) (4-6) (6-2).
Ladies' Singles.—	Marker's Tournament.
Mrs. Gracey beat Bibi Amrit Kaur (6-2)	Juna (Lahore) beat Moula] Bux (Kapur- thala (6-0) (6-1) (6-1).
Mixed Doubles.—	
Mrs. Macintyre and Crawford beat Mrs. Gracey and Deane (6-4) (8-6).	Allahabad.
Men's Doubles.—	Gentlemen's Open Singles.—
Deane and Atkinson beat Crawford and Vickery (6-1) (4-6) (6-2) (6-2).	The Balrampur Challenge Cup and a Cup value Rs. 100 and Prize Cup value Rs. 75.— 1st, Atkinson; 2nd, Crawford,

. 1 goal

,	
Gentlemen's Open Doubles.— 1st, Atkinson and Gamble; 2nd, Graham and Bean.	Mixed Doubles-Shallow and Mrs. Maynard
Open Mixed Doubles.— 1st, Mrs. Leslie Jones and Atkinson; 2nd Mrs. Macmillan and Dillon.	beat Doury Davies and Mrs. Allisan. Gentlemen's Doubles—Kingscote and Deane beat A. W. Shallow and D. S. Shallow.
Ladies' Open Singles.— 1st, Mrs. Leslie Jones; 2nd, Mrs. Fremantle.	Singles—Kingscote beat Shunedzu. Matheran.
Ladies' Onen Doubles.— 1st, Mrs. Macintyre and Mrs. Leslie Jones; 2nd, Mrs. Gale and Miss Hugh Jones.	Gentlemen's Singles.—Mr. W. Reid. Mixed Doubles.—Lady Tata and Bottliwalla. Ladies' Doubles.—Mrs. Scott and Miss Gordon.
Gentlemen's Handicap Singles.— 1st. Condon (—15); 2nd S. K. Muukerji (Scr.).	Simla. Men's Singles.— Captain Rendall.
Gentlemen's Handicap Doubles.— 1st, Wright and Leapingwell; 2nd, Crawford and Vickery.	Men's Doubles.— Messrs. Gamble and Vickery.
Mixed Doubles Handicap.— 1st, Mrs. Macmullen and Dillon; 2nd, Mrs. Ingram and Jusher Singh. Cup, value Rs. 45, presented by Messrs. Becht-	Ladies' Singles.— Mrs. Gracey. Mixed Doubles.— Mrs. Gracey and Mr. Moore.
fer and Co.— D. J. M. Campion, R. A.	Coonoor.
Prize presented by the Committee.— W. T. M. Wright, I.C.S.	Men's Doubles, open.— Sambasiva Rao and Singarvelu beat Mouatt and Bolton.
Bombay.	Ladies' Singles, open.— Mrs. Molesworth beat Miss Cardew.
Marryatt Cup.— Nicholson beat England.	Men's Singles, open.— Mouatt beat Bolton.
Western India Tournament.— Singles.—Fyzee beat Rangarao.	Poona.
Gentlemen's Doubles.—England and Kidd beat Naoroji and Engineer.	Ladies' Singles.— Miss Gordon. Men's Doubles.—
Mixed Doubles.—England and Mrs. Reynolds , beat Fyzee and Lady Tata.	Captains Lucas and Dudley. Mixed Doubles.—
Gymkhana Handicaps.— Singles—Kilby (Scr.) beat England (—40). Doubles—Clayton and Latimer (Scr.) beat Simms and May (+2-6).	Mrs. Mangin and Capt. Lucas. Ladles' Doubles.— Mrs. Pratt and Miss Gordon.
PO	LO.
Indian Polo Championship (Calcutta). Viceroy's Staff 8 goals The Travellers 4 goals	Raja Venugopal Tournament (Madras).— 26th Cavairy 6 goals Government House Team Nil.
The Travellers	Connell Cup (Allahabad).— 17th Cavalry
12th Cavalry 5 goals 17th Cavalry 3 goals	Cheshire Regiment 2 goals Secunderabad (January) Tournament.—
Carmichael Tournament (Calcutta).— The Ditchers 5 goals The Spiders 3 goals	7th Dragoon Guards 6 goals Futteh Maidan Gymkhana 4 goals Secunderabad (February) Tournament.—.
Punjab Tournament.—	Secunderabad (February) Total and George 6 goals

61st Pioneers 7... 110th Mahrattas

.. 5 goals

.. 4 goals

Punjab Tournament.-

Rifle Brigade ...

21st Lancers ...

15th Hussars' Cup (Lucknow).—	Inter-Regimental Tournament (Meerut).—
The Tigers 5 goals	17th Lancers 7 goals
The Inniskilling Dragoons 1 goal	Inniskilling Dragoons 3 goals
Lucknow Monsoon Tournament.—	Meerut Autumn Tournament.—
King's Dragoon Guards 9 goals	18th Lancers12 goals
K. O. S. Borderers 4 goals	3rd Skinner's Horse 2 goals
Infantry Tournament (Bareilly)	Subalterns' Tournament (Meerut)
2nd Gurkhas 4 goals	17th Lancers 6 goals
2nd Rifle Brigade 8 goals	King's Dragoon Guards Nil.
Indian Cavalry Tournament (Delhi).—	Ambala Tournament.—
9th Hodson's Horse 4 goals	8th Hussars 8 goals
3rd Skinner's Horse 2 goals	9th Hodson's Horse 3 goals
Cawnpore Tournament.—	Rawalpindi Tournament.—
Jacob's Horse 5 goals	21st Lancers 8 goals
2nd Lancers 3 goals	19th Lancers
Rajputana Tournament (Ajmere).—	Beresford Tournament (Simla).—
Kishengarh 14 goal	
Ajmere Gymkhana (+6) 8 goals	The Magpies 8 goals
Idar Cup (Bombay).—	Mysore Birthday Tournament.—
20th Lancers 3 goals	7th Hussars
Royal Artillery	Bangalore Gymkhana 2 goals
Hyderabad (Deccan) Junior.—	1.
Golconda "B" Tream 7 goals	Bangalore Tournament.— 7th Hussars 3 goals
20th Deccan Horse 5 goals	Only G
o goals	26th Cavalry 2 goals
Ladies' Paperchase Cup (Calcutto)	I Tadion Develope (In / Dawbert) Man
Ladies' Paperchase Cup (Calcutta).— Miss Dods 1; Mrs. Godfrey 2; Mr. Lamor Walker 3.	I
Miss Dods 1; Mrs. Godfrey 2; Mr. Lamor Walker 3. POINT-TO	POINT RACES.
Miss Dods 1; Mrs. Godfrey 2; Mr. Lamor Walker 3. POINT-TO Bombay.	t Turner.
Miss Dods 1; Mrs. Godfrey 2; Mr. Lamor Walker 3. POINT-TO Bombay. The Bombay Hunt Cup. Distance about 4	POINT RACES.
Miss Dods 1; Mrs. Godfrey 2; Mr. Lamor Walker 3. POINT-TO Bombay. The Bombay Hunt Cup. Distance about 4 miles— Mr. A. K. Graham's Swivveller	POINT RACES. Lahore. Race for Horses— Mr. Penny's Pilgrims' Progress 1
Miss Dods 1; Mrs. Godfrey 2; Mr. Lamor Walker 3. POINT-TO Bombay. The Bombay Hunt Cup. Distance about 4 miles— Mr. A. K. Graham's Swivveller Mr. M. Rommel's Better Luck	POINT RACES. Lahore. Race for Horses— Mr. Penny's Pilgrims' Progress
Miss Dods 1; Mrs. Godfrey 2; Mr. Lamor Walker 3. POINT-TO Bombay. The Bombay Hunt Cup. Distance about 4 miles— Mr. A. K. Graham's Swivveller Mr. M. Rommel's Better Luck Mr. R. C. Lowndes' Kitty	POINT RACES. Lahore. Race for Horses— Mr. Penny's Pilgrims' Progress
Miss Dods 1; Mrs. Godfrey 2; Mr. Lamor Walker 3. POINT-TO Bombay. The Bombay Hunt Cup. Distance about 4 miles— Mr. A. K. Graham's Swivveller Mr. M. Rommel's Better Luck Mr. R. C. Lowndes' Kitty The Bombay Pony Hunt Cup. Distance	Turner. POINT RACES. Lahore. Race for Horses— Mr. Penny's Pilgrims' Progress
Miss Dods 1; Mrs. Godfrey 2; Mr. Lamor Walker 3. POINT-TO Bombay. The Bombay Hunt Cup. Distance about 4 miles— Mr. A. K. Graham's Swivveller Mr. M. Rommel's Better Luck Mr. B. C. Lowndes' Kitty The Bombay Pony Hunt Cup. Distance about 4 miles.— Mr. E. C. Reid's Flyaway	Turner. POINT RACES. Lahore. Race for Horses— Mr. Penny's Pilgrims' Progress
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RAC	QUETS.
Bombay.	Doubles-
Professional Finals (Handicap)	Slogett and Gull beat Birch and Macbeth.
Jamsetji (-3) beat Hormusji (scr.)	Mixed Doubles-
Singles—	Mixed Doubles-
Capt. Slogett beat Mr. Gull.	Macbeth and Hormusji.
G	OLF.
Bombay.	Lady Willingdon's Cup—
Wimbledon Cup— E. E. Coombs (85)	Mrs. Kelly (128); Mrs. Stranger Leathes (131).
J. L. Hamilton (86)	
	Captain's Prize-
T. N. Begbie	= -
Golfer's Cup—	I. C. McLuse 2
Margoliouth	1
Coombs	Gulmarg (Kashmir).
Poona.	Guimarg Tournament—
Governor's Cup— F. W. Bain (153); A. Stranger Leathe (156).	Captain Cook
CI	RICKET.
Lansdowne Shield (Calcutta)—	Lord Northcote Shields (Bombay)—
Scottish Churches College beat the Metro	St. Xavier's College.
politan College by a wicket.	Gaikwar Cup-
Quadrangular Contest (Bombay)— Final abandoned owing to heavy rains.	Gujarat College.

Chronicle of the year 1914.

JANUARY.

1st.—Indian New Year Honours List published. There were created two K.C.S.I. (the Services, sitting in Calcutta, heard witnesses Hon. Mr. Salyid Ali Imam and the Hon. Mr. representing the medical service in Bengal. D. C. Baillie); three C.S.I., nineteen C.I.E.; eight Knights; two K.C.B.; three C. B. Seven Gold Medals and twenty Silver Medals and one bar to a Silver Medal of the Kaiser-i-Hind were given.

The anniversary of the Proclamation of His Majesty the King-Emperor was celebrated with the usual ceremonial.

Sir Benjamin Robertson sailed from Bombay in the R.I.M.S. Hardinge for Natal, to represent the Government of India at the inquiry into Indian grievances there and the disturbances arising from them.

H. E. the Governor of Bombay and Lady Willingdon returned to Bombay on the con-clusion of their Christmas tour in Idar and

5th.—An official communique announced the selection and appointment of twenty-four ladies to the Women's Medical Service for India, the service membership being fixed at 25 in number and these ladies to be selected "either on account of their previous good service under the Dufferin Fund or of their special qualifi-cations and testimonials."

The Allahabad High Court confirmed the sentence of death passed upon a Hindu shoe-maker convicted of murdering Miss Murphy, a young European lady, while travelling in the

6th.—The Royal Commission on Public Services resumed its sittings after the Christmas holidays, meeting again in Calcutta, Messrs. Ramsay MacDonald and Gokhale not being present.

8th.—Earl Brassey arrived in Bombay from England on board his yacht Sunbeam, on a visit to H. E. the Governor of Bombay and Lady Willingdon, the latter being Earl Brassey's daughter.

Details were published of proposals submitted to the Bombay University by Sir Alfred Hop-kinson as a result of his inquiry into the working of the University, with a view to advising the Senate in regard to its development.

9th.-Imperial Legislative Council at Delhi, the Hon. Sir Harcourt Butler presiding. The Insect Pest Bill and Motor Vehicles Bill were referred to Select Committees .- The Hon. Sir William Meyer introduced a Bill to Consolidate and Amend the Law relating to grant of Loans to Local Authorities.—The Hon. Mr. Surendra-nath Bannerji moved a resolution calling for extensive amendment of the Press Act. There was considerable debate. The Hon. Sir Reginald Craddock showed that many of the opinions formed with regard to the Act were based on misapprehension. The resolution was rejected by 40 votes to 17.

The formation of a committee to start an Indian school in Calcutta to be run on the lines of the English Public Schools was announced.

The newly formed Bombay A. D. C. gave their first performance, presenting Mr. G. B. Shaw's "You Never can Tell".

13th.—Imperial Legislative Council.—The Bill further to amend the Indian Penal Code, for the protection of Minor Girls, was referred to Select Committee.—The Bill further to amend the Code of Civil Procedure was regarded as a non-contentious measure and passed.—The Hon. Raja Kushal Pal Singh moved that in all future settlements of land revenue any increase of assets due to the construction (otherwise than at the expense of the state) of wells, tanks and other artificial sources of irrigation be permanently exempted from assessment to revenue. The resolution was lost by 35 votes to 17.

Fire in Kidderpore docks, Calcutta, causing damage estimated at fourteen lakhs of rupees.

14th.—Imperial Legislative Council.—The Hon. Sir Ali Imam moved that the Repealing and Amending Bill be referred to Select Committee and this was agreed to.-The Hon. Mr. V. R. Rayaningar moved that that the report of the Nicholson Committee regarding the Army of India be laid on the table. After a speech by the Hon. General Birdwood, explainspeech by the Hon. General Birdwood, explaining the military difficulties of complying with the request, the resolution was withdrawn.—
The Hon. Mr. Rayaningar moved that the local Governments be consulted as to the desirability of the constitution of Advisory Boards to assist officials in income tax assessment. The pros and cons of the matter were discussed in a debate of considerable length and Government accepted the proposition, which was carried.

15th.—T. E. the Viceroy and Lady Hardings concluded a brief visit to Lucknow.

16th.—Imperial Legislative Council.—On the motion of the Hon. Sir R. Craddock, the Decentralisation Bill and the Local Authorities' Loan Bill were referred to Select Committee.—The Hon. Sir R. Carlyle presented the Select Committee's report on the Insects Pests Bill.—A motion by the Hon. Sri Ram Bahadur, recommondered the select Committee's report on the Insects Pests Bill.—A mending the extension of chapter 6 of the Civil Regulations relating to acting allowances to members of the Provincial service, judicial and executive, was rejected by 40 to 14.—An important discussion took place on a motion by the Hon. Sir Fazulbhoy Currimbhoy recom-mending the appointment of a committee with a view to the improvement of the mail service between Great Britain and India and the proposition was eventually withdrawn.-The Council was adjourned to February 3.

19th.—All-India Sanitary Conference opened tucknow, the Hon. Sir H. Butler making an important inaugural speech upon the sanitary awakening of India and the proper lines of Sanitary progress.

Death announced of Sir William Lee-Warner, 20th.—Inspector Nripendranath Ghose, C.I.D., Calcutta, was shot with a revolver by an anarchist in the Chitpore Road, Calcutta. Two passers-by were also shot by the murderer and one of them, a boy, was killed.

21st.—The trial of Jaffer Josub, lately Manager of the Credit Bank of India, Bombay, charged before the Chief Presidency Magistrate with criminal breach of trust, commenced.

22nd.—The Sessions Judge of Barisal, in the Barisal Conspiracy Case, sentenced two men to 12 years' transportation, 3 men to 10 years' transportation, 2 to 7 years' transportation, 3 to 4 years' and 2 to 2 years', the sentence in the last two cases to run concurrently with previous sentences in the Comilla Case.

23rd.—The Calcutta Port Facilities Committee, under Sir William Duke, commenced its examination of witnesses.

26th.—The Public Services Commission opened its sittings in Madras, meeting in the Senate Hall in two sections, under Lords Islington and Ronaldshay respectively.

At a mass meeting of Indians at Durban, addressed by Mr. Gandhi and other Indian leaders, it was decided to endorse the provisional agreement reached between Mr. Gandhi and the South African Union Government. Similar meetings at Pretoria and Johannesburg unanimously endorsed the agreement.

28th.—The Government of Bombay announced a gift of eight lakhs of rupees by Mr. Mahomed Yusuf Ismail for the furtherance of Mahomedan education in the Presidency.

H. E. the Governor and Lady Willingdon left Bombay by sea for a tour in Sind.

Rai Damodar Das, District Judge, Multan, issued orders directing the winding up of the Hindustan Bank.

29th.—The Hon. Sir Benjamin Robertson gave evidence on behalf of the Indian Government before the Commission of Inquiry investigating Indian grievances, at Durban.

FEBRUARY.

std.—Imperial Legislative Council, at Delhi. The Hon. Mr. Clarke introduced the Companies Bill, which was referred to Select Committee.—The Hon. Sir R. Carlyle presented the report of the Select Committee on the Bill to prevent the introduction into British India of any insect fungus or other pest which is or may be destructive to crops.—Mr. Clarke also presented the Select Committee's report on the Telegraph Bill.—The Hon. Sir William Meyer presented the Se ect Committee's report on the Negotiable Instruments and Local Authorities Loan Bills.—A resolution by the Maharaja of Cossimbazar calling for the publication of correspondence on the local self-government question was negatived.

4th.—Imperial Legislative Council. The Hon.

Mr. L. Porter presented the Select Committee's report on the Copyright Bill.—The Hon. Sir R. Craddock presented the Select Committee's reports on the Bill to amend the Provincial Small Cause Court Act, 1888, and the Decentralisation Bill.—The Hon. Mr. Wheeler presented the Select Committee's report on the Motor Vehicles Bill. The Hon. Sir Fazulbhoy Currimbhoy moved for the institution of Conciliation Boards for the purpose of conciliation and arbitration between the Hindu and Moslem communities. The Hon. Sir Reginald Craddock expressed Government's full sympathies with the desires of the Hon. Sir Fazulbhoy Currimbhoy but pointed out that his proposition was impracticable and it was withdrawn.

6th.—Eight lives lost and damage to the extent of over one lakh of rupees caused by a fire in the bazaar at Bhuleshwar, in Bombay.

Papers presented to Parliament by the Secretary of State for India relating to the recording of the confessions of persons accused of criminal charges were published in Simia.

7th.—T. E. the Viceroy and Lady Hardinge arrived at Jodhpur on tour.

Death announced of Mr. Louis Pitman Russell, formerly Judge of the Bombay High Court.

The British Medical Association, at the request of Lord Crewe, forwarded a statement on the Indian Medical Service, warning the India Office that the service was on the verge of a catastrophe owing to various causes, among which were the extensive absorption of private practice by the Indian practitioner, the great increase in the work, the reduction in allowances, the rise in the cost of living and the Government's interference with the right of private practice by limiting fees and encouraging abuse in hospitals, while it was believed, they said, that the present limitations were to be made still more stringent.

8th.—Death announced of Mr. J. G. Lorimer, C.I.E., I.C.S., Political Resident in the Persian Gulf, as the result of the accidental discharge of a pistol.

9th.—The Public Services Commission opened its sittings in Bombay, Lord Islington presiding over one section and Lord Ronaldshay over another.

H. E. the Governor and Lady Willingdon returned to Bombay on the conclusion of their tour in Sind.

The case filed against Jaffer Josub, lately manager, N.R. Mistry, auditor, and R. C. Aranha, accountant, of the Credit Bank of India, Bombay, by the Official Liquidator, for falsifying the balance sheets of the profit and loss account of the Bank, came on for hearing before the Chief Presidency Magistrate.

10th.—Death announced of Major-General Sir Stuart Brownlow-Beatson, of the Indian Army, in England.

16th.—Quinquennial review by the Government of India of education in India (1907-1912) published. It showed that the numbers under instruction had risen from 5\(\frac{1}{4}\) to 6\(\frac{1}{4}\) millions, the percentage of those of a school-going age

who are at school from 14.8 to 17.7; the total on Government buildings in Delhi would amount expenditure from nearly 33 millions sterling to 54 millions and the expenditure from public funds from over a crore of rupees to nearly \$2,700,000, while the Imperial grants allocated during the period totalled over three millions sterling non-recurring, and over £766,000 annuallyrecurring.

H. H. Sir Harvey Adamson. Lieutenant-Governor of Burma, opened the new river training works at Soikgyi, the headquarters of the works, two miles from Rangoon.

17th .-- H. E. the Governor presided as the Chancellor at the Convocation of the Bombay University.

Lord Gladstone, Governor-General South Africa, speaking at a lecture by the Rev. C. F. Andrews at Capetown, on the subject of Rabin-dranath Tagore, appealed to South Africans to study India, with a view to learning to appreciate its civilisation and the aspirations of its peoples.

22nd.-An Indian Chamber of Commerce for the United Provinces founded at Cawnpur.

28rd.—Imperial Legislative Council.—The Select Committee's reports on the following were presented:—The Repealing and Amending Bill, the Companies Bill, and the Copyright Bill.—The Copyright Bill, as amended, was passed.—The Select Committee's report on the Decentralisation Bill was presented and discussed and the Bill wassed.—The Negotiable Instruments Bill was passed.—The Hon. Mr. Rayaningar moved the appointment of a committee to inquire into jail administration. The Government accented the resolution, which was Select Committee's reports on the following Government accepted the resolution, which was carried.—The Hon. Mr. Achariar moved for the institution of Government inquiries with a view to the diminution of strikes on railways and to ascertain the comparative advantages of State and company railway management. Both resolutions were lost.—The Hon. Mr. Surendranath Bannerji moved the appointment of a committee to consider the advisability of revising the system of Provincial Settlements now in vogue. The discussion had not been concluded when the Council rose for the day.

to £2,800,000.

24th.—The new Indo-Ceylon railway and ferry route, via Dhanushkodi and Manaar, formally opened. The Governors of Madras., Pondicherry and Ceylon met at Dhanushkodi as guests of the railway companies.

25th .- Annual Meeting of the Bombay 25th.—Annual alecting of the Domoay Chamber of Commerce. Sir Charles Armstrong presided and made an interesting speech on his retirement from Bombay after having been Chairman of the Chamber for 17 years. Mr. Marshall Reid was elected Chairman for the ensuing year.

Imperial Legislative Council.—The Mr. Surendranath Bannerji's resolution re-Settlements was rejected. garding Provincial -The Hon. Sir G. M. Chitnavis moved the appointment of a committee to inquire into the recent bank failures. After a long discussion the resolution was withdrawn.

Annual meeting of the Bombay Trades Association.

26th.—Sir Alfred Hopkinson, Adviser to the Bombay University, delivered an address before the University Senate which indicated directions in which the University could be extended and developed.

27th.—Imperial Legislative Council.—Select Committees' reports on the Motor Vehicles Bill and Local Authorities Loans Bills presented and the Bills passed.—The Hon, Raja Kushal Pal Singh moved for the extension of the period of settlement of land revenue for twenty or thirty to fifty years. The Resolution was negatived.—The Hon. Sri Ram Bahadur moved that the annual grant allowed by the Imperial Government to the Government of the United Provinces out of the heads of revenue by those Provinces for provincial expenditure be increased by a sum equivalent to one-eighth of their land revenue. The motion was negatived.—The Council adjourned to March 2nd.

28th .- A deputation of the Sikh community waited upon H. E. the Commander-in-Chief, Sir O'Moore Creagh, at his residence at Delhi, and presented to him an address of farewell The Under Secretary of State for India stated in the House of Commons that according to engineers' and architects' estimates, the outlay Panth appearing for the whole Sikh community.

MARCH.

1st .- Death announced of the Earl of Minto, late Vicerov of India. *

2nd.—Imperial Legislative Council, Delhi, —The Hon. Sir William Meyer, Finance Minister, presented the annual Budget and made an elaborate and important review of Indian financial policy.

3rd .- A Conference of Indian Chiefs on the proposed higher education college for chiefs's onthe sons, met at Delhi. H. E. the Viceroy opened the proceedings and there was a large gathering of Ruling Chiefs.

Sir O'Moore Creagh issued an Army Order of farewell.

5th.—Report of the Royal Commission regarding Indian Finance and Currency issued in London.

6th.—General Sir Beauchamp Duff, the new Commander-in-Chief in India, arrived at Bombay from England.

7th.—Sir O'Moore Creagh, on relinquishing the command of the army in India, sailed for England.

8th.—Imperial Legislative Hon. Sir Harcourt Butler read a message of condolence which the Council had sent to Lady Minto regarding the death of the Earl of Minto and a telegram received from Lady Minto in reply.—The Council proceeded to the discussion of the Budget in committee.

9th.—Imperial Legislative Council—Budget discussion continued.—The Council adjourned till the 17th March.

The subscriptions opened for the proposed higher college for Chiefs reached the sum of Rs. 10,55,700, with additional recurring subscriptions, bringing the total capital value up to Rs. 12,50,000.

13th.—Bombay Legislative Council, at Bombay.—The proceedings opened with an expression of regret by H. E. the Governor, who presided, at the death of Earl Minto.—The Hon. Sir Richard Lamb presented the revised financial statement for 1914-15 and said that in the course of revision no change had been made in the Budget for the ensuing year.—The Hon. Mr. Claude Hill moved the second reading of the Bill to amend the Karachi Port Trust Act, 1886. After considerable discussion in which two amendments were rejected, the Bill was finally passed into law.

15th.—Bombay Legislative Council.—The Hon. Sir Richard Lamb moved the first reading of the Bill to amend the Bombay Land Revenue Code, 1879. The Bill was agreed to and referred to Select Committee, with instructions to report by the 20th of June.—The Hon. Mr. G. M. Bhurgri obtained permission to withdraw his Bill to provide for the levying of a cess from the Mahomedan landholders in Sind for the promotion of education in that community.—The first reading of the Bill further to amend the Bombay Tramways Act was agreed to and the Bill referred to Select Committee, with instructions to report in six weeks.—The Hon Mr. Claude Hill moved the first reading of the Town Planning Bill, which was agreed to, and the Bill was referred to Select Committee, with directions to report by the 18th of May.

16th.—Bombay Legislative Council.—It was agreed that the Bill for the amendment of the Bombay Improvement Trust Act, to provide additional revenue for the Board, should not be taken up at the present sessions, but should be adjourned to the next sessions, so as to allow the Council to give consideration to representations by the Bombay Municipal Corporation on the subject..—The Hon. Sir Richard Lamb moved the second reading of the Bill to amend the Irrigation Act of 1879. Discussion lasted throughout the day.

H. E. Lady Hardinge laid the foundation stone of the Medical College and Hospital for Women, in new Delhi.

Imperial Legislative Council.—Select Committee's report on the Repealing and Amending Bi'l presented and the Bill passed.—Select Committee's report on the Protection of Minor Girls Bill presented. The report bore five minutes of dissent. Select Committee's report on the Companies Bill taken into consideration and the Bill passed.—H. E. the Viceroy made an important speech on the South African question, outlining the report of the Commission of inquiry.

17th.—Bombay Legislative Council.— The Irrigation Act Amendment Bill was finally passed.—The Hon. Mr. P. D. Pattani moved the second reading of the Bill to amend the District Municipal Act. The debate continued throughout the day.

18th.—Imperial Legislative Council.—The Hon. Sir E. Craddook introduced a Bill further to amend the Indian Penal Code and the Clvil Procedure Code, 1898, (dealing with contempt of court by newspapers) giving an assurance that the Bill would be referred to the High Courts, legal profession and journalists for their opinions.—A long debate took place on the Special Committee's report on the Bill for the Protection of Minor Girls, and a motion for republication, moved by the Hon. Sir R. Craddock, was carried. The Hon. Mr. Surendranath Bannerij moved for the adoption of various recommendations of the Decentralisation Commission in regard to provincial and local government.

Bombay Legislative Council.—First reading of the Bill to amend the District Municipal Act agreed to and the Bill referred to Select Committee .- On the motion of the Hon. Sir R Lamb, a Committee was appointed to inquire into the question of a Punchayat Bill on the lines of the Mysore Punchayat Regulations in regard to small irrigation works, the committee being directed to report by the 15th mittee being directed to report by the 15th November.—The Hon. Mr. Claude Hill made a statement of Government's policy with regard to the admission of students to the Poona Engineering College, from other provinces, promising to make further inquiries into the matter.—The Council adopted a motion by the Hon. Mr. Patel recommending the Governor-in-Council to consider whether the time had not arrived to rescind certain notifications issued from time to time under Section 8 of the Bombay Local Boards Act, 1884, whereby an exceptional constitution had been given to the various local boards in the Panch Mahal —The Council adopted a motion submitted by the Hon. Mr. J. A. D. McBain recommending Government to appoint a committee to inquire into the prevalence of malaria in the compound of the St. George's Hospital, Bombay.

20th.—Their Excellencies the Viceroy and Lady Hardinge arrived in Bombay on a visit His Excellency received an address of welcome from the Municipal Corporation at the Town Hall at noon, when there was a remarkable demonstration of popular enthusiasm, and H. E. the Governor of Bombay and Lady Willingdon gave a garden party in honour of their Excellencies at the Government House in the evening. There was a large dinner party at Government House.

21st.—Their Excellencies the Viceroy and Lady Hardinge entered the new Alexandra Dock from the harbour in the British India S. N. Co.'s steamer Lhasa, thereby formally opening the docks. The Viceroy read messages of congratulation from H. M. the King Emperor and H. M. Queen Alexandra, after whom the dock is named, and an address was presented to their Excellencies by the Port Trustees.

Her Excellency Lady Hardinge sailed for England by the P. & O. steamer Macedonia in the afternoon, being conducted on board the steamer by H. E. the Viceroy.

Addresses were presented to H. E. the Viceroy at Government House in the afternoon by the Bombay Chamber of Commerce and the Indian Chamber and Bureau. Merchants' Hardinge subsequently visited the bacteriolo-gical laboratory at Parel. There was a dinner party at Government House in the afternoon and the Viceroy afterwards left for Delhi.

22nd.—Thirteen of the 14 Indians charged with public violence in connection with an affray at Esperanza (on the south coast of Natal) in the preceding November were sentenced at Umzinto to six months' hard labour. The fourteenth Indian was acquitted.

23rd.—The most destructive cotton fire that had ever occurred in Bombay broke out on the Colaba Cotton Green in the early morning, the damage being estimated at 65 lakhs of

24th.—Imperial Legislative Council at Delhi. The Budget for 1914-15 came under discussion and the Hon. the Finance Member, Sir William Meyer, was the recipient of general congratulations upon both his statement of financial policy and his budget.—H. E. the nnancial policy and his budget.—H. E. the Viceroy, in winding up the Council made an important speech, reviewing the building proposals and project estimates regarding the new Delhi. His Excellency stated that the latest estimate was for £5,113,620 for the cost of the council including packs lighting irrigation. new city, including parks, lighting, irrigation, and roads, but excluding military cantonments and railway developments. He stated that Government would hold an additional one million in reserve for unforseen expenses and

necessary buildings would cost 360 lakhs, the cost of Government House being half a million sterling and that of the Secretariat three-quarters of a million sterling. The outlay would be spread over at least eight years, starting from 1912.

H. E. the Governor laid the foundation stone of the Bombay Sanitary Institute which is intended to be the home of the Bombay sanitary association and the centre of progressive sanitary activity throughout the Presidency.

Death announced of Sir Thomas Edward Gordon, an Indian mutiny veteran.

25th.-H. E. the Viceroy received an address from a large Mahomedan deputation, who waited on him at the Viceregal Lodge, Delhi, protesting the unimpeachable loyalty of the Indian Mahomedans and saying that all recent statements to the contrary should be treated as gross calumnies.

The Calcutta Port Facilities Commission's report, stating their conclusions with regard to the development of the port, was published.

29th.-It was announced that Lord Haldane and accepted the presidency of an unofficial committee of English people being formed in England to show hospitality to Indian students. Sir Frederick Robertson, formerly Judge of the Chief Court of the Punjab, was alogsed Cheirment of the Punjab, was alogsed Cheirment of the Punjab, was studge of the Court of the Fullac, which also included the Lord Chief Justice, Lord Inchcape, Lord Kinnaird, Mr. Justice Vaughan Williams, Vicountess Churchill, the Vice-Chancellors of Oxford and Cambridge Universities Six J. Dunles Smith, end others. contingencies. The Viceroy stated that the sities, Sir J. Dunlop-Smith and others.

APRIL.

3rd.—It was announced that a silver syndi-cate in London, headed by the Hongkong and Shanghai Bank, had completely disposed of the great silver holdings accumulated by the Indian Specie Bank, recently gone into liqui-

6th.—Further outbreaks of fire on Colaba Cotton Green, Bombay, causing damage amounting to nearly fifteen lakks of rupees.

First report of the Official Liquidator of the Indian Specie Bank Ltd., issued. The report showed that there had been losses of Rs. 1,11,41,894 in silver speculation, Rs. 36,43,195 in advances on pearls, Rs. 14,31,167 in share badli operations, and Rs. 4,43,237 on imprudent loans. The total loses under these four heads amounted to Rs. 1.66,64,494. The bank lost The bank lost Rs. 1,30,000 in 1913 by speculating in its own 163. 1,33,000 in 1913 by speculating in its own shares. Although the annual balance showed that large profits were carned, as a matter of fact no profits were made after the beginning of 1909, and dividends amounting to Rs. 22,87,500 had been paid out of capital. The Liquidator showed that the immediate cause of the failure of the hank was "the stoppage of the People's Bank and the Credit Bank, with all their ugly disclosures, and the consequent panic in the commercial and financial quent panic in the commercial and financial world and entire loss of public credit and confidence," and that "the proximate cause... was the frenzied speculation in which the Managing Director indulged and the imprudence recklessness with which loans were given by the Table!" by the Bank."

7th.-Delivering judgment in the case in which Mr. Channing Arnold, editor of the Burma Critic, appealed to the judicial committee of the Privy Council against his conviction for defaming Mr. J. P. Andrew, District Magistrate of Mergue, Burma, and sentenced to one year's imprisonment, by the Chief Court of Lower Burma, Lord Shaw said that the Committee had listened to lengthy arguments and had gone into the entire history of the case so that nothing should interfere with the course of justice, and the appeal was dismissed.

13th.—The Government of Bombay appointed a special Committee of Inquiry regarding the Bombay Cotton Fires.

A Mahsud servant of Major G. Dodd, C.I.E., Political Agent, Waziristan, shot dead Lieutenant G. W. C. Hickie, B.A., of the 32nd Mountain Battery, and two men of the Frontier Construction bulary; fatally wounded Major Dodd, Captain Brown, of the Waziristan Militia, another man of the constabulary and a chuprassi. He was finally shot dead by the Frontier Constabulary. It appeared that the cause of the murder was the stoppage of a cheque for Rs. 250 due to a cousin of the murderer, owing to the cousin being under suspicion of being concerned in a robbery.

14th.—Annual meeting of the Bombay Millowners Association. Mr. J. F. Bradbury, Chairman, reviewing the year, stated there had been an increase in both looms, and spindles, in India. The first half of the year was undiminished preparently but the second helf was not shed prosperity but the second half was unfavourable, owing to the bad season in the United Provinces and to the collapse of credit consequent upon the Bank failures. Credit seemed to be reviving slowly, but the overstocked condition of the piece-goods market afforded no signs of material reduction. Mr. Jehangir Petit urged the necessity for the development of the home market. Mr. D. E. Wacha urged that the millowners should find the means to improve the industry so as to compete more fully with the mills of other countries.

17th.—Sir Henry Belfield, Governor of the Bast African Protectorate, gazetted High Commissioner for Zanzibar in addition to his present appointment, Major Pearse, Deputy Governor of Nyassaland, being appointed Resident in Zanzibar.

18th.—Death announced of General Sir George Barker, an Indian mutiny veteran.

19th.—H. M. the King Emperor appointed the Sultan of Zanzibar honorary K.C.M.G.

services in the Bombay and central circles and announcing that they had decided to adopt it, subject, particularly in Burma, to certain modifications, with effect from April 1st, 1914.

28th.—A tornado swept over Calcutta and part of Bengal and caused extensive damage. The steamer Naira (2,627 tons) was blown ashore opposite the Kidderpore docks and two other steamers broke from their moorings.

20th.-Death announced of General Sir

Henry Brackenbury, who was Private Secretary to Lord Lytton during the latter's Indian Vice-

royalty and Military Member of the Council of the Viceroy of India from 1891 to 1896.

24th.—The Government of India published

resolution concerning the success of the experimental amalgamation of the Post and Telegraphs

Four German and seven Indian employees in the steel furnace department of the Tata Iron & Steel Works Co. at Sakchi were severely scalled as the result of an overflow of molten steel and one Indian and Lone German were fatally injured.

MAY.

2nd.—Sir T. Wynne, President of the Indian Railway Board, left India on retirement.

Seven water-colour drawings of the preminary designs of the principal buildings, at New Delhi, including the Viceregal residence and the Council Chamber, placed on view at the Royal Academy.

11th.—Lord Curzon, in the House of Lords, drew attention to "the excessive expenditure" on new Delhi and moved for papers. He criticised the policy embodied in the establishment of the new capital and the expenditure upon it. The debate was chiefly note worthy for the speech which Lord Crewe made in reply. Lord Crewe declined to re-argue the question whether the change of capital was wise. He emphasised the approval with which the change was regarded in India. He stated that the Government of India intended to be in residence at Delhi seven months each year.

17th.—The Oriental Studies Committee of the India Office, the London Chamber of Commerce and the Sir Montagur Turner's Committee issued a joint appeal on behalf of an Oriental Lang ages School, pointing out that in adition to the grants of £4,000 and £1,250 per annum promised by the Government and the India Office respectively and £2,000 per annum expected from the London County Council, a further sum of at least £ 6,700 a year was required. They asked for an endowment fund of not less than £10,000.

18th.—A further cotton fire in Bombay destroyed 3,000 bales and the godown in which they were stored, the cotton bales being valued at Rs. 14 lakhs.

19th.—Madras Legislative Council meeting at Ootacamund. There were 17 resolutions on the agenda. An interesting discussion took place on a resolution for the appointment of a committee of officials and non-officials to investigate the question of arrears of work at the Madras High Court, the resolution eventually being withdrawn.

22nd.—The Japanese steamer Komagata Maru arrived at Vancouver, having on board a large number of Indian passengers, chiefly Sikhs, whom a Sikh named Gurdit Singh, the owner of extensive timber forests in Western Canada, was endeavouring to introduce into the Doninions,

It was announced that the British Government was taking up £22,00,000 worth of shares in the Anglo-Persian Oil Co., in order to secure the maintenance of a large supply of oil for the Admirativ at reasonable prices.

The Government of India Issued an important resolution on the condition of sanitary development and progress of India. The resolution laid down a number of principles on which sanitary work must proceed and was similar in its character to that previously Issued on the subject of education.

The amalgamation of the Peninsular and Oriental and British India Steam Navigation Companies was officially announced. The agreement provided for the exchange of staff between the two companies and for the fusion of their Boards, so that the interests of both would be identical, though the companies would continue to work separately.

25th.—Lord Crewe formally introduced the Council of India Bill in the House of Lords and it was read the first time.

Lord Lamington initiated a debate in the House of Lords on the proposed Trans-Persian Railway. Lord Crewe, in an important speech, stated that the Government had made it quite clear that whatever railways were made, any continuation towards India remained an absolutely reserved question and that they had also made it quite clear that they were bound to exercise control in the ports of the Persian Guif. "The most vital factor in the whole situation is the necessity for ensuring the defence of India."

26th.—Another serious fire occurred on the through Behar and Orissa for the purpose of Bombay Cotton Green, causing damage esticollecting mammals for the Bombay Natural mated at Rs. 15 lakhs; this fire was the 37th Historical Society's Mammal Survey of India, outbreak among cotton stored in Bombay during the season. The total damage caused by all these fires up to date amounted to over Rs. 82 lakhs.

30th.—Mr. M. C. A. Crump, in a letter to the press, announced that in the course of a tour was surprising.

JUNE.

Sir 4th.-Death announced of Straight, who was Judge of the Allahabad Court from 1879-1892.

5th.-H. E. the Governor of Bombay and Lady Willingdon arrived at Government House, Octacamund, on a visit to H. E. the Governor of Madras and Lady Pentland.

10th.—The Governor of Bombay and Lady Willingdon left Ootacamund for Mysore, en route to Bombay.

13th.—The committee of the International Federation of Master Cotton Spinners' and Manufacturers' Associations has opened a series of meetings in Paris. Sixteen countries, including India and Japan, were represented. Sir Charles Macara emphasised that it was the duty of the members to continue their efforts until all the nations recognised the utility of international collaboration in cotton growing.

It was announced that the Federation were promoting a special company, with a capital of £60,000, to work an estate of 7,500 acres in the Punjab, granted by the Government rent-free "not on purely commercial lines, but in order to give an object lesson to Indian cotton cultivators."

16th.—The Government of Madras announced that they had decided to establish a Women's College at Madras as a temporary measure for one year..

The Chief Presidency Magistrate, Bombay, the Ciner Presidency Magistrate, nomony, and his wife were assassinated at Serajevo. bound over the fathers of three boys, namely, two Eurasians, aged 11 and 12½ respectively, and one Hindu, aged 11, found guilty of setting of the India Council Bill in the House of Lords, fire to bales of cotton on the Bombay Cotton Lord Curzon moved the rejection of the Bill Green on the 14th instant. The damage done by the fire amounted to Rs. 100. It was be- was adjourned till July 6.

Douglas | lieved that the boys caused the fire for mischief and were not instigated to start them.

collecting mammals for the Bombay Natural Historical Society's Mammal Survey of India,

Burma and Ceylon, he visited the Singar estate, in the Gaya district, and found that a commencement had been made for the mining of pitch

blende, which is the chief source of radium. He stated that the radio-activity of the sample

of pitch-blende with which he experimented

18th .- On the eve of H. E. the Viceroy's Birthday, a movement to petition H. M. the King Emperor, through the Secretary of State, to extend Lord Hardinge's term of office was simultaneously inaugurated in Lahore, Simla and Bombay by prominent non-official gentlemen.

22nd.—The Honour Lists issued in connection with H. M. the King Emperor's Birthday contained the following decorations of special tained the following decorations of special interest to India:—One Earldom (Lord Kitchener); 3 K.C.S.I.; 11 C.S.I.; 22 C.I.E., 4 Knights (Mr. Justice Miller, of the Madras High Court, Mr. F. L. Sprott, Chairman of the Bombay Port Trust, Mr. Justice Batchelor of the Bombay High Court, and Lieut-Col R. Rogers, I.M.S., Calcutta); 2 K.C.B. and 8 C. B. besides migned decorations 6 C. B., besides minor decorations.

23rd.—An International Conference on Tropical Agriculture was opened in London, thirty-three countries being represented. It was announced that H. M. the King-Emperor had consented to be the patron of the congress. The general point of interest was the discussion of a proposal for the institution of a college of Tropical Agriculture at Peradaniya in Ceylon. There was general agreement in favour of the project, and it was stated that the funds required would be £50,000.

28th.—The Archduke Francis Ferdinand, heir-apparent to the Austro-Hungarian throne,

JULY.

1st.—Death announced of Major-General Scrase-Dickins, an Indian mutiny veteran.

The closing meeting of the International Congress of Tropical Agriculture passed a resolution to support the proposed establishment of an Imperial College of Agriculture in the British tropics.

2nd.—The delegates of the Indian National Congress in London issued a statement expressing regret at the motion in the House of Lords to reject the India Council Bill.

6th.—The Bombay High Court commenced hearing two charges against Jaffer Josub, lately Manager of the Credit Bank of India, of criminal breach of trust in respect of two sums of Rs. 48,588 and Rs. 16,000 respectively.

The twenty-first annual conference of the United Planters' Association in Southern India opened at Bangalore.

The trial of Bishen Dutt, a Brahmin, and Motichand, a Jain, for the murder of Bhagvan-dass, Mahunt at the Nimei temple, and of a boy Bansidhar, the mahunt's servant, and for robbery, was commenced by Mr. T. S. Mao-pherson, Sessions Judge of Shahbad, with two Assessors, one Hindu and the other Mahomedan.

7th.—Correspondence published between the Government of the Union of South Africa and Mr. Gandhi, giving details of the Indian settle-ment in South Africa, showing that the Government promised to adopt all the recommendations enumerated at the end of their Commission's

report and not included in the Relief Bill. Mr. Gandhi, in a letter to the Government, stated that the passage of the Bill and the correspondence finally closed the Passive Resistance Struggle.

Debate on the India Council Bill resumed in the House of Lords. Lord Ampthill support-ed the rejection. Lord Morley supported the Bill in a remarkable speech, which was chiefly distinguished by his assertion, with reference to Lord Ampthill's desire for the views of the Government of India, that the Bill did not directly concern the Government of India, and urrectly concern the Government of India, and for his defence of the practice of private correspondence between the Secretary of State and the Viceroy arranging the control of Indian affairs. The motion for the second reading was, after further debate, rejected by 96 votes to 38.

The Conference of British, Tibetan and Chinese representatives in Simla, concerning the settlement of the Tibetan and Chino-Tibetan questions, broke up, as the delegates were unable to agree on several points, including the Tibetan claim that the Kokonor district, namely, the country south of the Kuen-Lun Mountain, should be included in autonomous outer Tibet, against which the Chinese contended that Konkonor had always been a part of Kansu. The status of Chiamdo was also disputed. The Chinese pointed out that when the conference began they considered Giamda to be the limit of the Tibetan boundary but that they gave way six times, giving up 800 miles of territory, until at present they were willing to accept the Salween River.

8th.—H. E. Lady Hardinge underwent "a serious but successful operation" in London and her condition was reported to be satisfac-

9th.—The British India steamer Dwarka, with mails from Karachi, arrived at Bombay under her own steam, after being helpless at sea, off the Kathiawar coast, for four days, with a broken rudder. The first officer, Mr. Wilkinson, and second officer, Mr. Hartford, with lascars assisting them, were reported to have performed a highly courageous feat in repairing the rudder.

Sir Charles Macara, interviewed with regard to the situation of the cotton trade, said the outlook was gloomy owing to diverse circumstances in various parts of the world.

10th.—During a statement on foreign affairs in the House of Commons, Sir Edward Grey emphasised the satisfactory results of the agreement reached regarding the navigation of the Euphrates and the Tigris and further emphasised that the Agreement with the Anglo-Persion Oil Company and subscription for their shares in no way altered the political situation of Persia.

11th.—H. E. Lady Hardinge died without having recovered after her recent operation.

by the East India section of the London Chamber of Commerce, protesting against certain proposals in the new Finance Bill, particularly the double taxing (in India and in England) of incomes arising from English capital Invested in India. Lord Crewe received a deputation nominated by the East India section of the London Cham-

14th .-- A Manchester telegram 'reported that it was anticipated there that the curtailment of working days in the United States cotton mills would be followed by a similar policy in Lancashire, and probably also on the Continent

The House of Commons discussed the Chan-cellor of the Exchequer's Finance Bill, in Committee, Mr. Worthington Evans moved an amendment exempting income re-Invested in the Overseas -Dominions from payment of British income-tax. Sir John Rees dwelt upon the unfortunate effect of the Bill as regards India. Sir John Simon, replying for the Government, stated that this double tax "hit the classes which most deserve to be hit "and the amendment was rejected by 268 votes to 197.

15th.—Funeral of late Lady Hardinge, at Penshurst. A Memorial Service was held by permission of H. M. the King in the Chapel Royal, St. James' Palace. Queen Alexandra the Dowager Empress of Russia, Princess Victoria and other members of the Royal family were present. Magnificent wreaths were sent to Penshurst by Queen, Alexandra, the Empress-Dowager of Russia, the Queen of Norway and Princess Victoria.

16th.—An accident was reported to have occurred in the P. & O. steamer Salsette en route from Aden to Bombay with the Home mails. Water obtained ingress to the coal bunkers, with the result that many tons of small coal and water suddenly slid down into the stokehold and the pumps became choked with small coal.

19th.-The mail steamer Salsette reached Bombay.

At a mass meeting at Manchester of the American spinning section of the International Federation of Master Cotton Spinners, the recommendation of the curtailment of production, made by the General Committee of the Federation, was approved, and it was decided to issue a circular to ascertain whether firms owing the necessary number of spindles were willing to curtail in accordance with the recommendation.

One man was killed, Basanta Kumar Chatterjee, Deputy Superintendent of Police, fired upon and a constable wounded, by a political assassins at Dacca. The man killed was described as "a political suspect connected with the Kedarpur dacotty, who is believed the control of the control o to have made disclosures to the police. The crime was committed in the street by a party of five, several shots being fired. Nine people, including six students, were arrested the six students subsquently being discharged.

20th.—The Finance Member of the Govern-ment of India, the Hon. Sir William Meyer, had informal discussions upon financial ques-tions in Bombay with the Chamber of Commerce and the Indian Merchants' Chamber.

22nd .- A telegram from Vancouver reported

Servia.

25th.-The Gazette of India contained a Resolution from the Department of Commerce and Industry urging on all officers the necessity of maintaining the present attitude of vigilance and restriction and of safeguarding the interests of temperance and enclosing correspondence between the Secretary of State and the Government of India as the result of questions raised by Sir Herbert Roberts, Bart, M.P., and other members of a temperance deputation that waited upon the Secretary of State on July 18, 1912,

27th.—Bombay Legislative Council meeting at Poona, H. E. the Governor presiding. Lord Willingdon, Sir Pherozshah Mehta, Sir Ibrahim Rahimtulla and the Hon. Mr. Manmohandas Ramji made feeling references to the death of H. E. Lady Hardinge and a resolution expressing the Council's profound sorrow and their deep sympathy with H. E. the Viceroy was silently carried.—The Hon. Sir R. Lamb presented a statement showing the revised budget proposals and the debate upon this continued throughout the day.

28th.-Austria declared war on Servia.

Bombay Legislative Council.—The Bill further to amend the Bombay Tramways Act, 1874, was read the second and third times and finally passed.—The Hon. Mr. W. D. Sheppard movel. the first reading of a Bill to amend the Aden Port Trust Act, 1888, and the measure being of a non-contentious nature was put through all its stages and passed.—The Hon. Mr. P. D. Pattani moved the first reading of a Bill further to amend the Bombay Civil Courts Act, 1869,

24th.—Austrian ultimatum presented to and the Standing Orders being suspended this Bill was also finally passed.—The Hon. Mr. P. D. Pattani moved the second reading of the Bill further to amend the District Municipal Act, which was necessitated by the growing improvement of certain towns in the Presidency, the main feature of the Bill being a provision for the appointment of Municipal Commissioners. Debate continued until the Council rose.

> 29th.—Bombay Legislative Council. The whole day was occupied by discussion of the District Municipal Bill.

30th .- All leave to officers in the British Army in India and in the Indian Army stopped, owing to the situation in Europe.

Council.-The Dis-Bombay Legislative trict Municipal Bill was discussed throughout the whole day and finally read the third time.

Council,-The 31st.—Bombay Legislative Council.—The Hon. Sir R. Lamb moved the second reading of the Bill further to amend the Bombay Land Revenue Code, 1879, and the Bill passed through both second and third readings.—The Hon. Mr. W. D. Sheppard introduced a Bill further to amend the Bombay Port Trust Act 1879, the main point of the amending measure being to provide for the addition of a military member to the Board of Trustees of the Port. And the Bill was passed through all its stages.—
The Council proceeded to the discussion of resolutions moved by members, there being ten of them on the agenda paper.

Correspondence between the Government of India and the Secretary of State on the subject of the restriction of the growth of Indian Medical Service and the employment of non-official medical practitioners in India was published in Simla.

AUGUST.

1st.—Germany presented an ultimatum to and declared war on Russia.

2nd,-Italy announced her neutrality.

Germany invaded France at Circy and marched troops through the independent State of Luxemburg, on the French frontier.

3rd.—Germany sent an ultimatum to Belgium, proposing an entente to facilitate German operations against France through Belgium.

It was announced in Simia that H. E. the Vicercy had cabled to His Malesty's Secretary of State that the people of England could count of State that the people of England could count on every man and every gun of the Army in India, whether British or Indian, if need arose, and that England might remain confident in the loyalty of the people of India to cope with any enemy that might arise.

4th.—Great Britain, after long previous negotiations, sent an ultimatum to Germany, allowing her until mid-night to give a surrances that she would not infringe the neutrality of Belgium. Germany having rejected the ultimatum, Great Britain declared war.

5th.—The Germans began the bombardment of Liege.

7th .- H. E. the Governor of Bombay announced his intention immediately to resume his residence in Bombay, owing to the situation arising from the war.

8th.—British Expeditionary Force began to arrive in France.

12th.—The Mediterranean Sea reported to be clear of the enemy.

Great Britain declared war against Austria.

13th.—Great public meeting presided over by the Hon. Sir Pherozeshah Mehta held in the Town Hall, Bombay, to pass resolutions supporting the Government in connection with the war. The Chairman stated he had never taken part in the proceedings of a meeting of the citizens of Bombay with a stouter heart and more willing and impetuous soul than he was proud to do on the present occasion. The was proud to do on the present occasion. The Town Hall was crowded to overflowing and the meeting was one of the most remarkable demonstration. demonstrations that has ever taken place in the city. The meeting was typical of similar gatherings taking place in all parts of India.

16th.—German cruiser Emden in the Bay of Bengal sank five British merchant ships.

17th.—Japanese ultimatum to Germany, expiring on August 23rd.

H. E. the Viceroy, in a letter, appealed for Indian Relief Fund in connection with the

H. E. the Governor of Bombay, in a letter to the Press, inaugurated a Relief Fund for the Presidency in connection with the war.

21st.—Meeting of the women of Bombay, A German force from Germ representative of all communities, in the Town attempted to cut the railway Hall, presided over by Lady Willingdon, to East Africa and was repulsed.

inaugurate a Women's Branch of the Indian Relief Fund for the purpose of contributing comforts and necessaries for British and Indian troops at the front.

26th.—Provincial Co-operative Conference opened at Poona,

A German force from German East Africa attempted to cut the railway line in British

SEPTEMBER.

3rd.—The Germans made a second attempt to cut the railway line in British . East Africa. One African soldier of the British side was killed, and all the camp equipment, and three revolvers and ammunition belonging to the enemy were captured.

4th.—A German force of three hundred infantry with two pompoms and three maxims was encountered fifteen miles from Tsavo. British East Africa, and retired after receiving a severe handling. The British losses were one native officer and one man killed, and nine men wounded.

Ninetieth birthday of Mr. Dadabhoy Nowroji. 6th.—The Indian Imperial Relief reached a total of 19 lakhs.

The Bombay Branch War Relief Fund reached a total exceeding 10 lakhs.

8th.—Imperial Legislative Council meeting at Simla, H. E. the Viceroy presiding.—His Excellency read a message to India from H. M. the King-Emperor in reference to the war. His Majesty emphasised the carnest efforts of his Ministers to preserve peace and his obligation to enter the war because of that paramount regard for the treaty faith and pledged word of rulers and peoples which is the common heritage of England and India. His Majesty declared his heart touched by the prodigious loyal offers of support and assistance made by the Princes and peoples of India.—H. E. the Viceroy addressed his Council on the subject of the war and announced that an Indian Contingent was being sent to the front, His Excellency further made an important speech on the question of Indian emigration to other parts of the British Empire and advocated the adoption of a policy of co-operation, as between India and the Dominions, leading to negotiation with the Colonies on a basis of complete reciprocity .- The Hon. Sir G. M. Chitnavis asked for and obtained suspension of the rules of business and moved a resolution expressing on behalf of the members of the Council, as voicing the feeling that animates the whole of the people of India, feelings of un-swerving loyalty and enthusiastic devotion to the King-Emperor, and giving an assurance of unflinching support to the Government and expressing the opinion that the people of India, in addition to the military assistance being afforded to the Empire, "would wish to share in the heavy financial burden now imposed by the war on the United Kingdom....."
Non-official members representing all communifies unanimously spoke in terms of firm loyalty and support. The resolution was carried and H. E. the Viceroy, in responding, announced that India was sending a military force of over 70,000 combatants to the front and that several of the Ruling Chiefs, whom

he mentioned, had, in accordance with their desire, been selected to accompany it. Excellency stated that in pursuance of the terms of the resolution the Government of India felt disposed to recommend to the Secreportion of the cost of the Expeditionary Force as would have fallen upon India had the troops continued to be employed in this country under normal circumstances. So far as a rough estimate can be formed at present, said His Excellency, the net amount which the Government of India would in this way contribute to His Majesty's Government, assuming that the war lasted till the end of the current financial year, would be about one million sterling. His Excellency expressed his confidence in the Indian troops and his feeling that as a sequence of their participation in the war, better relations would be promoted amongst the component parts of the British Empire. The resolution was put and accepted.

9th .- In the House of Lords, the Secretary of State for India read an important statement from H. E. the Viceroy describing the great outburst of loyalty in India in connection with the war and describing the practical manner in which the Indian Empire was giving effect to this feeling. Lord Crewe, Lord Lansdowne representing the Unionist Lords, and other Peers, expressed their grateful admiration and their Lordships unanimously passed a resolution expressive of their thanks to India. The Under-Sceretary of State read the Vice-regal message in the House of Commons, where it was received with the greatest enthusiasm, the scene in the House being described as the most remarkable in its history.

10th.—The Secretary of State for the Colonies issued an account of a heroic affair in Nyas-saland, where a small British force drove off a body of 400 German invaders, while subsequently one British officer and 50 men of the South Africa Rifles, with eight civilians, resisted for three hours a German attack in the early morning and eventually, by repeated bayonet charges, dislodged the Germans, captured two field guns and two machine guns. The enemy

20th.--British light cruiser Pegasus disabled at Zanzibar by German cruiser Kocnigsberg. 21st.—German cruiser Emden bombarded Madras.

26th.-Passengers in the s.s. Komagata Maru, who were being repatriated by the Government of India, arrived in the Hugli.

30th.—The passengers in the s.s. Komagata Maru were landed at Budge Budge, Government

party of 60 entrained and left for the Punjab. (missioner of Police, Calcutta, was wounded in The remainder, who proved to be armed with revolvers, swords, knives and staves, began serjeants were wounded. The Punjab police marching to Calcutta. Eventually, they came into conflict with the police, upon whom they on the mob, of whom 16 were killed and several made a sudden attack. Mr. Lomax, Assistant wounded. The rest scattered among the Traffic Superintendent, E. B. S. Ry., was surrounding villages and the police instituted fatally shot, Sir Frederick Halliday, Com-

OCTOBER.

2nd .- It was officially announced in London that part of the Indian Expeditionary Force to Europe had landed in France. It was un-officially reported that the landing place was Marseilles. Lively accounts were published of the march of the Indian troops, through the city where they landed, the people pelting the soldiers with flowers and giving them in many ways a warm welcome.

5th.—The Special Session Judge at Delhi delivered judgment in the Delhi conspiracy case, agreeing with the findings of the Assessors. He sentenced Amirchand to twenty years' transportation for an offence under Section 4 of the Explosives Act and Abad Behari to twenty years' transportation for abetment. In connection with the charges of conspiracy to murder, Basant Kumar was found guilty, but in consideration of his youth was only sentenced to transportation for life; Abad Behari, Amirchand and Balmokand were all found guilty and sentenced to death; Balraj was found guilty, but the Judge found some distinction between his case and that of the others and sentenced him to transportation for life. Hanwant Sahai received a similar sentence. Khusiram, Raghobar Sharma, Manulal and Ramlal were acquitted. The approvers Dinanath and Sultanchand were discharged.

The Sessions Judge at Arrah delivered judgment in the Mahant murder case. Both the two Assessors had found Motichand, a Jain. guilty of the murder of the Mahant Bhagwanguinty of the murder of the manant Dingwandass and of his servent, and Bishen Dutt, a Brahmin, guilty of robbery. Motichand was sentenced to death for murder and Bishen Dutt to ten years' transportation for abetment of robbery. The judgment occupied 135 of robbery. The judgment occupied 135 typed pages of foolscap and showed that the crime was committed to obtain funds for the promotion of "swaraj."

16th.—An official communique issued in Simla stated that H. E. the Viceroy had learnt with great regret of the serious affray at Budge Budge on 29th September and had decided, in view of the regrettable loss of life and of the fact that matters were involved which concerned the two local Governments of Bengal and the Punjab, to appoint a committee to inquire into the circumstances connected with the voyage of the Komagata Maru to British Columbia, its return to India, the riot at Budge-Budge on the return to India, the rior at Budge-Budge and the subsequent arrest of those concerned, the Committee to consist of the Hon. Sir W. Vincent (President), the Hon. Mr. Hagan (Punjab), Sirdar Daljit Singh and Mr. H. Walmsey (Bender) and the Committee of Sirdar Daljit Singh and Mr. H. Walmsey (Bender) and M gal), and to assemble in Calcutta at once,

Death announced of Sir William Markby, K.C.I.E., who was Judge of the Calcutta High Court for 12 years and died in his 86th year.

18th.—Great Britain decided to maintain a gunboat at Mahommera.

The Indian Troops' Comforts Fund in London reached £50,000.

20th.-Lord Crewe issued in London a long statement bringing to the notice of the public the steps being taken in England and India to utilize offers of assistance for the welfare and comfort of the Indian Expeditionary Force, the care of their dependants in India, and details of the working of the Indian Soldiers Fund and the Indian Imperial Relief Fund. Lord Crewe mentioned that the Viceroy suggested to him that in view of the warm feelings with which the public at Home welcomed the despatch of the Indian force, the latter fund should commend itself to the generosity of the British as well as the Indian public.

Lord Crewe received the new appointces to the Indian public services and addressed them.

21st.—News received that the light cruiser Emden had sunk five steamers and a Govern-ment dredger (bound for Tasmania) about 100 miles east of Colombo and captured two Government colliers.

22nd.—A Mahratta and two Brahmins were placed before the Assistant Collector of Poona charged under Sec. 124A, I.P.C. with attempted publication of a "liberty" pamphlet of a seditious nature.

Death announced of Lieut.-Col. K. D. Erskine, C.I.E., Resident at Baghdad, who was for many years in the Indian Political Department.

25th.—Death announced of General Sir Charles Douglas, G. C. B., K.C.B., Inspector General of the Forces. He saw much service in Indian Frontier campaigns.

26th.—It was reported from Constantinople that with the increasingly favourable military situation of the Allies, combined with the Russian victory, the German pressure to Induce Turkey to participate in the war was becoming greater. The Porte, however, continued to assure the Entente Ambassadors that Turkey would not abandon her neutrality.

would not abandon her neutrality.
Unofficial reports from the battle-front in
Belgium contained the first mention of the
appearance of Indian troops in action. The appearance of Indian troops in action. The reports spoke of the Indians workmanlike manner and their bravery and dash.

29th.—Turkish warships, including two German cruisers, bombarded open Russian Black Sea ports, no previous declaration of war by Turkey having been made.

The Government of India issued a Press Note regarding Turkey, showing that the Germans had insinuated themselves into 8 position of control of Turkish policy and that covert acts, with a view to hostilities against England and Russia, had long been taking place in the Turkish Empire.

NOVEMBER.

1st.—The Turkish authorities summarily intercepted telegraphic communication with the British Embassy in Constantinople.

2nd.—It was officially notified by the British authorities that war had broken out between Great Britain and Turkey.

H. H. the Nizam issued a farman exhorting Indian Musalmans to remain firm and whole-hearted in their loyalty and obedience to the British Government, this being their bounden duty "especially when there is no Moslem or non-Moslem Power in the world under which they enjoy such personal and religious liberty as they do in India."

H. E. the Viceroy was authorised by His Majesty's Government to issue a proclamation announcing that the Moslem Holy Places and Shrines in Arabia and Mesopotamia, and also Jedda, would be immune from attack or molestation by the British naval and military forces, so long as there was no interference with pilgrims from India to the Holy Places and Shrines in question. The same proclamation announced that at the request of His Majesty's Government the Governments of France and Russia had given similar assurances.

Expressions of loyal support of the British Government were received from Mahomedans in all parts of India.

4th.—Publication was given to a message from H. H. the Aga Khan exhorting all Mahomedans "to remain loyal, faithful and obedient to our temporal and secular alleriance" to the British Government, pointing out that no Islamic interest was threatened by the war between Great Britain and her Allies and Turkey, whereas Germany had long been plotting to become the suzerain of Asia Minor and Mesopotamia and that "if Germany succeeds, which Heaven forbid, Turkey will become a vassal of Germany and the Kaiser's Resident will be the real ruler of Turkey and will control the Holy City."

It was officially reported that H.M.S. Minerva had bombarded Akaba, at the head of the Gulf of Akaba, and driven out the Turkish military force which was there, accompanied by German officers.

5th.—It was announced that the Indian Fund in London was making itself responsible for a supplementary hospital of five hundred beds in the New Forest, together with the equipment and maintenance for the first six months at a cost of £35,000 sterling. It would be possible to convey the wounded from the ship to the hospital in motor cars. A number of wounded were already at Netley, attended by the Indian Ambulance Corps.

It was reported that a military force from India and a naval brigade had occupied Fao, at the mouth of the Shatel-Arab, at the head of the Persian Gulf, after an hour's resistance.

6th.—Official reports were received of a strong Russian advance across the Caucasian frontier into Asiatic Turkey.

7th.—The German fortress of Tsing-tau, protecting their port of Kiau-Chao, surrendered to a British, Indian and Japanese force.

9th.—A large body of Territorial troops arrived in Bombay for duty in India.

The German cruiser Emden was caught off the Cocos Islands by the Australian cruiser Sydney. The Sydney's third shot set her on fire and she ran ashore. The Sydney then did all that was possible to rescue their officers and crew. The Captain of the Emden and Lieut, Prince Franz Joseph of Hohenzollern were both taken prisoners unwounded, and it was unofficially stated that the Emden's total losses were 200 killed and 30 wounded. The Emden had attempted to reach the Cocos Islands wireless station in disguise, but was detected by the islanders, who sent a wireless message to the Sydney.

10th.—A White Paper of seventy-seven pages was issued by the British Government dealing with the events leading to the war with Turkey and exposing an amazing record of efforts by Germany to corrupt the loyalty of Moslems and the neutrality of Turkey.

11th.—It was announced from Delhi that the principal officers commanding the Indian Expeditionary Force under Sir James Wilcocks were as follows:—Brigadier-General Havelock Rudson, Chief of Staff, Major-Generals C. A. Anderson, H. B. Watkins, P. M. Carneey, Brig.-Gen. R. G. Egerton, Major-Generals F. Macbean, J. M. S. Brunker, H. D. U. Keary and F. E. Johnson, all infantry commanders, with Brigadier-Generals F. W. G. Wadeson, H. D. Fanshawe, Major-General G. A. Cookson, Brigadier-General S. P. W. Pirle, Lieut.-Colonel S. M. Edwardes, Brigadier-General H. P. Leader and Major-General C. U. M. Fasken as cavalry commanders.

14th.—Death of Field-Marshai Earl Roberts. Lord Roberts went to France on the 12th to greet his "dear Indian troops," saying "I cannot remain quietly at Home when my old comrades are fighting for our existence." Lord Roberts refused to wear an overcoat while inspecting the Indians on the 12th and insisted on seeing the fighting of the 13th from the top of an exposed hill, in spite of heavy rain and bitter wind. He was seized with illness a few minutes after his return to Headquarters, developed pneumonia and passed away peacefully in his sleep on the evening of the 14th.

17th.—H. R. H. the Prince of Wales went to the front in Belgium, being appointed to Field-Marshall Sir John French's Staff.

Eloquent tributes were paid to the memory, of Earl Roberts in both Houses of Parliament, and the House of Commons, on the motion of the Premier, voting funds for the erection of a monument in his honour.

The Chancellor of the Exchequer presented a financial statement regarding the war in the House of Commons and showed that the cost of the war for a full year would be at least 450 millions sterling.

19th.—The Madras hospital ship "Madras" sailed from Madras to proceed West.

The mortal remains of the late Earl Roberts were buried in St. Paul's Cathedral. H. M. the King-Emperor attended and the funeral was conducted with full military ceremonial,

soldiers from all parts of the Empire, including | the Military authorities, through His Excel-India, being present in the procession and in the Cathedral.

20th.-The Bikaner Camel Corps fought a successful action with Bedouins in the desert country eastwards of the Suez Canal and 70 Bedouins were killed, including three important Sheikhs, one of whom was the brother of the Turkish Commander, Sinfi Pasha.

22nd .- A British Indian force operating in Mesopotamia, under Lt.-General A. Barrett, drove the Turks out of Basra and occupied that place.

26th. - Warm appreciation on the co-operation of India in the war was expressed in both Houses of Parliament when resolutions sanctioning payment from the Indian revenues of the cost of the troops despatched to Europe were presented and passed.

27th .- It was announced that the Committee of the Bombay Presidency Branch of the Imperial Indian War Relief Fund had offered to a visit to the troops at the front.

lency the Viceroy, to provide a 500 bed hospital for Indian troops engaged in the war and that the offer had been accepted, the hospital to be called "the Bombay Presidency Hospital," equipped by, and staffed by men from the Bombay Presidency, including Sind, and locat-ed probably at some convenient place in Egypt. The Bombay Government appealed for volunteers for the hospital staff.

29th.—The hospital ship "Loyalty," presented by a number of Indian Ruling Chiefs, was inspected by H. E. the Governor and Lady Willingdon in dock at Bombay and afterwards sailed for the Persian Guli.

30th.—A memorial to Lieut. H. R. Bowers, R.I.M., who lost his life with Captain Scott and his comrades in the Antarctic, having been provided by his fellow officers in the Royal Indian Marine, was unveiled by H. E. the Governor in Bombay Cathedral.

H. M. the King-Emperor landed in France on

DECEMBER.

2nd.—Celebrations of the centenary of the landing in Calcutta of Bishop Middleton, the first Anglican Catholic Bishop to come to India, were held in the Anglican Churches throughout India.

3rd.—Dr. S. B. Sarvadhikary, President of the Bengal Medical Association, received from medical authorities of the Government of India a communication acknowledging the receipt from the Association of 25 names of medical men willing to fill temporary vacancies in the I. M. S. cadre, and stating that Lieutenant's commissions had been given to eight of the nominees. The communication also offered to accept the formation of a united corps of medical men and ambulance bearers.

5th.—The Frankfurter Zeitung, a semi-official German newspaper, published a communication from the front stating that at first the Germans spoke with contempt of the Indian troops, but that they had learnt to respect them, the writer expressing his appreciation of their fighting qualities by saying: "The devil knows what the English have put into these fellows: they stormed our lines, as though they possessed an evil spirit."

H. M. the King-Emperor handed the V. C. H. M. the king-imperor handed the V. C. to Naik Darwan Singh Negi, of the 1st batta-lion, 39th Garwal Rifles, and it was announced that Sepoy Khudadad, of the 129th Duke of Connaught's Own Baluchis, then in hospi-tal had also been awarded the V. C., these being the first two Indian soldiers to receive the coveted decoration.

7th .-- An official account of H. M. the King-Emperor's visit to the front was published. It showed that His Majesty's tour began with a visit to the Indian troops, with the General Officer Commanding, who presented the Indian Princes at the front and the officers of his staff. During the week's visit, the King visited all the troops at the front, visited the hospitals, in-

the Belgians. His Majesty conferred the Order of Merit upon Field-Marshal Sir John French and bestowed upon King Albert the Order of the Garter, the most ancient order of knighthood in existence.

8th.—The Bombay Legislative Council met at Bombay, H. E. the Governor presiding. The Hon. Moulvie Rafinddin Ahmad, at the outset, moved: "That this Council begs to express its deep conviction of the righteousness of the current of Council between of the cause of Great Britain in its participation in the present war and assures His Majes-ty's Government of the unswerving loyalty and devotion of all communities and classes to the British Throne and offers its humble service to Government during the crisis, and prays that the Governor in Council will be pleased to convey this expression of opinion to His Majesty's Government." The Hon. Moulvie, the Hon. Government." The Hon. Moulvie, the Hon. Shaikh Ghulam Hussain Hidayat Allah, the Hon. Syed El Edroos and thirteen other nonofficial members, representing all communities, in all parts of the Presidency, spoke in terms of cordial support of the resolution, which was carried, H. E. the Governor making a speech in response. The Hon. Mr. Claude Hill moved in response. the second reading of the Bombay Town Planning Bill and the debate upon this measure continued throughout the day.

9th.—Bombay Legislative Council. The de-bate on the Town Planning Bill was continued and the Bill passed through its final stages. The Hon. Sir Richard Lamb moved the first reading of a Bill to provide for the survey of the Town and Island of Bombay and the firstreading was passed and the Bill referred to Select Committee. The Hon. Mr. P. D. Pattani moved the first reading of a Bill to Decentralise and otherwise to facilitate the administration of certain enactments in force in the Presidency of Bombay, and the first reading was carried and the Bill referred to Select Committee. The Hon. Mr. Hill moved the first reading of a cluding those accommodating German wounded, he Hon. Mr. Hill moved the first reading of a and exchanged State visits with the President Bill to authorise the levying of dues on vessels of the French Republic and H. M. the King of for the provision of Lights on the Coast of the

Province of Sind. This also was carried and the Bill referred to Sciect Committee. This concluded the business of the Council.

10th,-An official announcement was made that, in addition to the 103,000 acres already reserved in the Lower Bari Doab Canal area, for distribution by the Military authorities as rewards to pensioned Indian officers and men, a further 75,000 acres would be reserved for the same purpose, in view of the war and of the large proportion of officers and men from the Punjab in the Indian Army.

15th.-The Government of India issued a press commusique detailing special measures taken to repatriate Indian pilrims at Jeddah and to patrol the routes with warships to ensure their safety.

17th.—The portrait of Surgeon-General H. W. Stevenson who lately retired from the Surgeon-Generalship to the Government of Bombay was unveiled by His Excellency Lord Willingdon in the hall of the College of Physicians and Surgeons, Bombay.

19th.—Reception by Their Excellencies the Governor and Lady Willingdon at Government House, Bombay, this owing to the war, being the only one of the usually numerous public functions at Gevernment House to be held this year.

21st.—The King and Queen inspected in London the motor ambulances presented by the Maharajah of Gwalior.

22nd.—The Bombay Municipal Corporation passed a resolution of profound sorrow at the death of Lieutenant the Houble Edward Charles Hardinge, the gallant son of His Excellency the Viceroy, whose death from blood-poisoning after being wounded in battle lad just been reported, and requested the President to send a suitable message of condolence to His Excellency expressive of the universal feeling of grief evoked by the sad event and conveying gree evoked by the sau event and conveying to him the heartfelt sympathy of the Corpora-tion in his bereav ment. This resolution is given in this chronicle as a type of thousands of expressions of feelings of the same character which were received by His Excellency the Viceroy from all parts of the Indian Empire.

25th.—The Tenth Indian Industrial Conference met at Madras under the presidency the statue of the late Lord Ripon in Madras.

of the Hon'ble Mr. Munmohandas Ramji. Among the resolutions passed was one conveying loyalty of the people to the throne and their willingness to serve the Empire.

Seven naval scaplanes escorted by a large cruiser and destroyer force with submarines raided Cuxhaven.

26th.—The Governor-General-in-Council sanctioned the admission of five Indian soldiere into the Indian Order of Merit, and the award of the Indian distinguished service medal to a sepoy of the Bikaner Camel Corps.

27th.—The official report on the accident on the Ghat Section of the G. I. P. Railway on October 15 was published. The Sonlor Go-vernment Inspector stated:—"The accident in my opinion was entirely due to the action of the pointsman in wrongly manipulating the spring cross over the points."

The s.s. Syria arrived in Bombay from Sonthampton bringing about 320 wounded and sick Îndian soldiers.

The 28th session of the Indian National Social Conference met at Madras under the Presidency of the Yuvaraja of Mysore.

The All-India Mahomedan Educational Conference began at Rawalpindi when the Commissioner of Rawalpindi made a speech expressing sympathy with the Mahomedans in their present difficulties.

28th .-- About 1,300 prisoners of war arrived in Bombay from Basra.

The 30th Session of the Indian National Congress opened in Madras, Sir Subrahuanya Lyer being the Chairman of the Reception Committee and Mr. Bhupendranath Basu, the President. Loyal resolutions were passed and the meeting of the Congress was, for a short time, attended by the Governor of Madras.

The first All India Conference of Indian Christians was held at Bishop's College, Calcutta.

Under-trial convicts in the Belgaum Jali attempted to escape and were fired upon by the armed police guard. Eighteen were killed and six wounded.

INTEREST TABLE.

FROM 5 TO 12 PER CENT. ON RUPEES 100.

Calculated for 1 Year, 1 Month (Calendar), 1 Week, and 1 Day (365 Days to Year), the Decime Fraction of a Pie for the Day being shown for the Day.

Per cent.	1 Day.	1 Week.	1 Month.	1 Year.
5 6 7 8 9 10 11	Rs. A. P. 0 0 2:630 0 0 3:156 0 0 3:682 0 0 4:208 0 0 4:734 0 0 5:786 0 0 6:312	Rs. A. P. 0 1 6 0 1 10 0 2 1 0 2 5 0 2 9 0 3 0 0 3 4 0 3 8	Rs. A. P. 0 6 8 0 8 0 6 9 4 0 10 8 0 12 0 0 13 4 0 14 8 1 0 0	Rs. A. F 5 0 0 7 0 0 8 0 0 9 0 0 10 0 0 11 0 0 12 0 0

Table of Exchange, No. 1—Rupees into Pounds Sterling. For values of Rupees from 1s. 3½d. to 1s. 3½d.

Rupees:	1s. 3½d.	1s. 3 od.	1s. 34d.	1s. 3 11 d.	1s. 3≩d.	1s. 313d.
1 3 5 10 20 30 40 50 60 70 80 90 100 250 400 500 750 1,000	£ s. d. 0 1 3½ 0 3 10½ 0 6 5½ 0 12 11 1 5 10 1 18 9 2 11 8 9 2 11 8 7 3 17 6 4 10 5 5 16 3 4 5 16 2 11 25 16 8 32 5 10 48 8 9 64 11 8	£ s. d. 0 1 3½ 0 3 10½ 0 6 5½ 0 12 11¼ 1 18 10½ 2 11 10½ 2 11 10½ 3 4 10 3 4 10 3 4 10 3 4 10 3 4 10 3 4 10 3 4 10 3 4 10 4 10 9½ 5 3 9 5 16 8½ 16 4 2½ 25 18 9 22 18 12 7 48 12 7 48 12 7 46 10 10 46 10	£ s. d. 0 1 3½ 0 3 10½ 0 6 6 0 13 0½ 1 6 0½ 1 19 0½ 2 12 1 1 1 13 5 1¼ 3 18 1½ 4 11 1 ½ 5 17 2½ 16 5 6½ 26 0 10 32 11 0½ 48 16 6½ 48 16 6½ 65 22 1	£ s. d. 0 1 3½ 0 1 1 6 0 13 0½ 1 66 1½ 1 67 1½ 2 12 3½ 3 18 5½ 4 11 6 10 8 9½ 26 2 11 26 2 17 49 0 7 5½ 65 7 5½	£ s. d. 0 1 32 0 3 114 0 6 63 1 1 9 41 2 12 6 3 15 7 3 18 9 4 11 10 5 18 1 6 11 3 16 8 11 3 49 4 4 65 12 6	£ s. d. 0 1 3 0 -8 11 0 6 7 0 13 2 1 6 6 2 12 8 3 5 10 3 19 0 4 12 5 5 5 18 7 6 11 9 5 26 7 1 32 18 10 49 8 3 55 13

For values of Rupees from 1s. $3\frac{7}{8}d$. to 1s. $4\frac{1}{16}d$.

Rupees.	1s. 3 7 d.	1s. 315d.	1s. 334d.	1s. 4d.	1s. 432d.	1s. 416d.
1	£ s. d. 0 1 33	£ s. d. 0 1 32	£ s. d. 0 1 34	£ s. d. 0 1 4	£ s. d. 0 1 4	£ s. d. 0 1 4
. 3	0 8 11 2	0 3 114	0 3 114	0 4 0	0 4 0	0 · 4 · 0 0 · 6 · 8 1
5 10	0 6 71 0 13 2	$\begin{array}{cccc} 0 & 6 & 7\frac{1}{2} \\ 0 & 13 & 3\frac{1}{2} \end{array}$	0 6 7 1 0 13 31	0 6 8 0 13 4	0 6 8	0 13 41
20	1 6 54	1 6 6	1 6 71	168	1 6 84	1 6 9½ 2 0 1½
30 40	1 19 8½ 2 12 11	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 19 11 2 13 23	$\begin{smallmatrix}2&0&0\\2&13&4\end{smallmatrix}$	2 0 0 2 2 13 5 2	2 12 6
50	3 6 14	3 6 4	3 6 6	3 6 8	3 6 9	3 6 11 4 0 3 1
60 70	3 19 41 4 12 71	3 19 8½ 4 12 11¾	3 19 10 4 13 14	4 0 0 4 13 4	4 0 13 4 13 6	4 0 3 4 4 13 8 2
80	5 5 10	5 6 3	5 6 5∄	568	5 6 10½	5 7 1 6 0 54
90 100	5 19 07 6 12 31	5 19 6 1 6 12 9‡	5 19 9 6 13 0#	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6 0 21	6 13 102
250	16 10 84	16 12 0 1	16 12 8	16 13 4	16 13 114	16 14 7½ 26 15 5
400 500	26 9 2 3 33 1 5½	26 11 3 33 4 02	26 12 3½ 33 5 4½	26 13 4 33 6 8	26 14 41 33 7 111	26 15 5 33 9 34
750	49 12 2	49 16 1	49 18 0	50 0 0	50 1 111	50 3 103 66 18 64
1,000	66 2 11	66 8 1½	66 10 84	66 13 4	66 15 111	00 10 05

For values of Rupees from 1s. 432d. to 1s. 43d.

Rupees.	1s. 432d.	18. 4½d.	18. 4 ₃₅ d.	1s. 43 d.	1s. 4 ₃ 7 ₂ d.	1s. 41d.
1 3 5 10 20 30 40 50 60 70 80 90 100 250 400 750	£ s. d. 0 1 4 04 0 6 84 1 6 92 2 0 23 1 7 05 4 13 103 5 7 05 4 13 103 6 14 14 16 15 32 28 16 52 33 10 52 28 16 52 33 10 52 35 10 52 36 10 52 36 10 52 37 12 38 10 52 38 10 52 58 10 58 10 58 10 52	£ s. d. 0 1. 4 0 4 04 0 18 50 1 6 10 1 8 10 2 0 3 8 2 13 8 3 7 2 4 0 7 2 14 4 04 5 7 6 6 14 4 16 15 11 10 16 17 6 33 11 10 16 7 3 9 6 7 3 9	£ s. d. 0 1 4 0 4 8½ 0 13 5½ 1 6 11 2 0 4 4½ 2 13 10½ 3 7 3½ 4 14 2½ 5 7 8½ 4 14 2½ 5 16 14 7 7 26 18 6½ 16 16 7 7 26 18 6½ 5 9 9 9 6 6 4½	£ s. d. 0 1 4 0 4 8 2 0 13 5 2 1 1 1 1 2 1 3 1 1 4 2 1 3 1 1 4 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1	£ s. d. 0 1 4 4 0 9 0 13 6 1 2 0 6 2 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1	£ 8. d. 0 1 4½ 0 4 6 9½ 0 1 7 1 1 2 0 7 2 1 4 2 3 7 8 4 1 4 9½ 5 8 4 1 1 0½ 6 15 6 18 5 6 1 1 0½ 6 15 6 18 5 6 1 1 5 6 15 6 15 6 15 6 15

Table of Exchange, No. 2—Pounds Sterling into Rupees.

For values of Rupees from 1s. 31d. to 1s. 31d.

Sterling.	at 1s. 3½d. at 1s. 3½d.	at 1s. 3§d. at 1s.	. 311d. at 1s. 33d	. at 1s. 315d.
£ s. d. 0 0 1 0 0 4 0 0 6 0 0 9 0 1 0 0 2 6 0 5 0 1 0 0 5 0 0 25 0 0 75 0 0 75 0 0 100 0 0	0 6 2 0 6 2	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	a. p. Rs. a. j 1 0 0 1 4 0 0 4 6 1 0 6 9 2 0 9 12 2 0 12 14 6 1 14 13 2 3 12 1 10 4 7 9 1 4 9 15 3 7 10 76 3 15 9 152 6 7 5 380 15 5 15 0 761 14 5 6 5 1,142 13	Rs. a. p. 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 1 0 9 1 1 2 0 1 1 1 4 3 1 2 8 1 1 1 1 5 1 1 2 5 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

For values of Rupees from 1s. 33d. to 1s. 41d.

Sterling.	at 1s. 37d.	at 1s. 3½d.	at 1s. 331d.	at 1s. 4d.	at 1s. 4 _{3'j} d.	at 1s. 4%d.
£ s. d.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p. 0 0 11
0 0 4	0 4 0 0 6 0	0 4 0	0 4 0 0 6 0	0 4 0 0 6 0	$\begin{array}{cccc} 0 & 3 & 11 \\ 0 & 5 & 11 \end{array}$	0 3 11 0 5 11
0 0 9	$\begin{array}{cccc} 0 & 9 & 0 \\ 0 & 12 & 1 \\ 1 & 14 & 2 \end{array}$	$\begin{smallmatrix}0&9&0\\0&12&0\end{smallmatrix}$	0 9 0 0 12 0 1 14 0	$\begin{array}{cccc} 0 & 9 & 0 \\ 0 & 12 & 0 \\ 1 & 14 & 0 \end{array}$	$\begin{array}{cccc} 0 & 8 & 11 \\ 0 & 11 & 11 \\ 1 & 13 & 10 \end{array}$	0 8 11 0 11 11 1 13 9
0 2 6 0 5 0 0 7 6	1 14 2 5 3 12 5 5 10 7	$\begin{array}{cccc} 1 & 14 & 1 \\ 3 & 12 & 2 \\ 5 & 10 & 3 \end{array}$	3 12 1	3 12 0 5 10 0	3 11 10 5 9 9	3 11 9 5 9 7
0 10 0	7 8 11 15 1 10	7 8 5 15 0 11	7 8 2 15 0 5	7 8 0 15 0 0	7 7 9 14 15 6	7 7 6 14 15 0
5 0 0 10 0 0 25 0 0	75 9 5 151 2 10 377 15 2	75 4 8 150 9 4 376 7 5	75 2 4 150 4 8 375 11 8	75 0 0 150 0 0 375 0 0	74 13 7 149 11 3 374 4 2	* 74 11 3 149 6 7 373 8 6
30 0 0 50 0 0	453 8 8 755 14 5	451 12 2 752 15 0	450 14 1 751 7 5	450 0 0 750 0 0	449 1 11 748 8 7	448 3 11 747 1 3
75 0 0 100 0 0	1,133 13 8 1,511 12 11	1,129 6 6 1,505 14 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1,125 0 0 1,500 0 0	1,122 12 10 1,497 1 2	1,120 9 10 1,494 2 7

For values of Rupees from 1s. 43d to 1s. 41d.

Sterling.	at 1s. 432d.	at 1s. 4 d.	at 1s. 454d.	at 1s. 4 3 d.	at 1s. 457ed.	at 1s. 4\d.
£ s. d. 0 0 1 0 0 4 0 0 6 0 0 9 0 1 0 0 2 6 0 5 0 0 7 6 0 10 0 1 0 0 1 0 0 2 0 0 1 0 0 2 0 0 1 0 0 2 0 0 3 0 0 0 4 0 0 0 5 0 0 0 9 0 1 0 9 0 0 0 9 0 0 0 0 9 0 0 0 0 9 0 0 0 0	Rs. a. p. 0 0 11: 0 3 11: 0 5 11: 0 8 11: 1 1 13: 9 3 11: 7 7 7 3 14: 14: 0 2 14: 2 2 3	Rs. a p 0 0 111 0 3 11 0 5 111 0 11 10 1 1 13 8 3 11 6 5 9 3 7 7 0 14 14 17 174 6 8 148 13 4 372 1 5	Rs. a. p. 0 0 11 0 3 11 0 5 11 0 8 10 0 11 10 1 13 8 3 11 5 5 9 1 7 6 10 14 13 4 4 14 148 8 9 371 5 10	Rs. a. p. 0 0 11	Rs. a. p. 0 0 11 0 3 11 0 5 11 0 8 10 0 0 11 10 1 13 7 7 3 11 2 5 8 9 7 6 4 14 12 9 74 15 7 369 15 0 443 14 10 0 443 14 10	Rs. a. p. 0 0 11 0 3 11 0 5 10 0 8 10 0 0 11 9 1 13 5 5 8 C 7 6 1 14 12 3 73 13 6 147 11 0 369 3 7443 1 2
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Indian Stamp Duties.

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In any other case 1 0
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The same duty as is payable on the
original. In any other case 1
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Delivery Order Entry in any High Court of an Advocate
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In the case of the second
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Other than Will, recording an adoption
or conferring or purporting to come
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more than 3 years, same as Bond 102
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(b) Of any Stock or marketable Security exceeding in value Rs. 20—
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rity exceeding in value Rs. 20— Subject to a maximum of Rs. 10 a. 1 for every Rs. 10.000, or part. Note of Protest by a Ship's Master 0 8 Partnership—Where the capital does not exceed Rs. 500
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Rs. a.	Rs. 3.
If drawn in duplicate, for each part:-	When given for consideration and
Half the above rates, for Sea and	authorising the Attorney to sell any im-
Time.	movable property—The same duty as a
(3). Fire—When the sum insured does	Conveyance for the amount of the consi-
not exceed Rs. 5,000 0 8	deration.
In any other case 1 0	In any other case, for each person
(4). Accident and Sickness—Against	authorised 1 0 Protest of Bill or Note 1 0
Railway accident, valid for a single	Proru 0 1
journey only 0 1 In any other case—for the maximum	Receipt for value exc. Rs. 20 0 1
amount which may become payable	Shipping Order 0 1
in the case of any single accident or	Surrender of Lease—When duty with
sickness where such amount does not	which lease is chargeable does not exceed Rs. 5:—The duty with which
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fically provided for, per Rs. 1,000 0 6 In case of a re-insurance by one Com-	a consideration equal to the value of
nany with another—1 of duty nav-	the share.
pany with another————————————————————————————————————	Transfer of any Interest secured by a
rance, but not less than 1 anna, or	Bond, Mortgage-deed, or Policy of Insurance—If duty on such does not
more than 1 R.	exceed Rs. 5—The duty with which
Power of Attorney-	such Bond, &c., is chargeable.
For the sole purpose of procuring the	In any other case
registration of one or more documents	Transfer of Lease by way of assignment
in relation to a single transaction or	Transfer of Lease by way of assignment and not by way of under-lease—The
for admitting execution of one or more such documents 0 8	same duty as a conveyance for a const-
	deration equal to the amount of the con-
Authorising 1 person or more to act in a single transaction other than that	sideration for the transfer. Trust, Declaration of—Same duty as a
mentioned above 1 0	Bond for a sum equal to the amount or
Authorising not more than 5 persons	value of the property concerned, but
to act jointly and severally in more	not exceeding 15 0
than 1 transaction, or generally 5 0	Revocation of—Ditto, but not exceed-
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The Calendars.

				~•			
A fu	II Ca	lendar will be found at the beginning	Dec. 2	Dedicatio	on of Templ	e Kislev	25
		ok. Below are given details of the ndars in use in India.	,, 8		••	Tebet	1
The	.Te	wish Calendar is in accordance with	,, 17	Fast, Sie	ge of Jeru	•• ,,	10
the sy	ster	n arranged A.D. 358. The Calendar n the Creation, which is fixed as s and 3 months before the beginning	м	ohame	dan Cal	ender.	
dates	fror	n the Creation, which is fixed as	1915.	· · · · · · · · · · · · · · · · · · ·	Julia Cui	1333.	
of the	Chr	stian Era; the year is Luni-solar.	January	17		. Rabia I.	1
		hammedan, or era of the Hejira,	February	16			1
dates	froi	n the day after Mahomet's flight	March	17		. Jomada I.	1
from .	Mece	ea, which occurred on the night of 22 A.D. The months are Lunar.	April	16		. Jomada II. . Jomada II.	_
			May	15		. Rajab	1
tion o	ras f ti	i year was derived from a combina-	June	14		. Shaaban	1
order .	of A	e Hejira and Samvat years by the kbar; it is Luni-solar. The Bengali	July	13		. Ramadan	ī
year s	ceni	s also to have been related at one	August	12		. Shawall	ī
Solar r	nade	e Hejira, but the fact of its being it lose 11 days each year.	September	10		. Dulkaada	1
		avat era dates from 57 B.C., and is	October	10		. Dulheggia	ī
T.11Di-9	niar	The months are divided into two	Coloner	10		1334.	
fortnig	zhts	-sudi, or bright, and badi, or dark.	November	9		. Muharram	1
the da	tes o	ight contains 15 tithis, which furnish f the civil days given in our calendars.	December	9		. Saphar	1
						-	
		Jewish Calendar.	[•	Fasli (N. W. In	dia).	
1915	i.	5675.	1915.			1322.	
Jan.	16	Sebat 1	January	1		. Pausha	30
Feb.	15	Adar 1	" ້	. 2		. Magha	1
,,	25	Fast of Esther ,, 11	February	1		. Phalguna	1
,,	28	Purim ,, 14	March	2		. Chaitra	1
Mar.	1	Shushan Purim ,, 15	April	1	,	. Vaisakha	1
,,	16	Nisan 1	¯,,	30		.• Jyaistha A	d. 1
**	30	Fest, of Passover ,, 15	May	29		. ,,	1
**	31	" ., 2nd Day " 16	June	28		. Ashada	1
April	5	,, ,, 7th ,, ,, 21	July	27		. Sravana	1
**	6	" " 8th "., " 22	August	25			1
,,,	15	Yiar 1	İ			1323.	
May	2	Fest. 33rd of Omer ,, 18	September	24		. Asvina	1
**	14	Sivan 1	October	23	••	Karttika	1
"		Pentecost, 1st Day ,; 6	November	22		Marga	1
June	20 13	" 2nd " " 7	December	22	••	. Pausha	1
V dile		Fast of Tamuz	ľ	F	Bengali.		
July	12		1915.	_	, cubarre	1321.	
"		Foot of Ab	l			Pous	17
Aug.	11		January	1		. Fous . Magha	1
		5676.	,, February	14			ī
Sept.	a		March	18 15		Chaitra	ī
De 100.	10		March	15		1322.	•
"		Fast of Guadaliah	Amail	14		Vaisakha	1
"		Day of Atonoment	April May	14		·	1
**		Fenst of Taharnaslas	June	15 16	•••	4-4-4-	î
•,	24	,, ,, 2nd Day ., , 16	July		••	Sravana	ī
,,	29	Hosana Raba	August	17	••	Bhadra	î
"	30	Feast of 8th Day , 22	September	18		Asvina	ī
Oct.		Rejoicing of the Law 23	October	18			1
,,	9	Hesvan 1	November	17		Marga.	. 1
Nov.	8	Kislev 1	December	17		Pous	1

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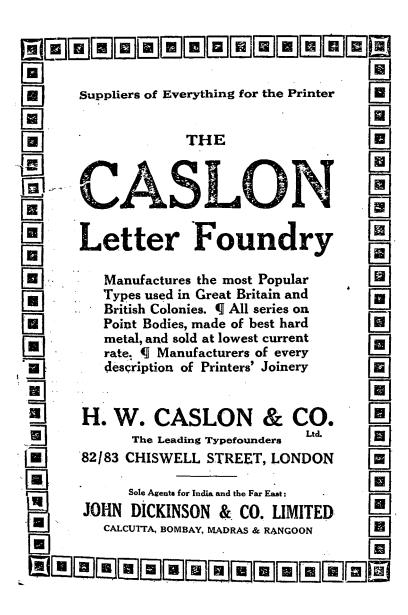
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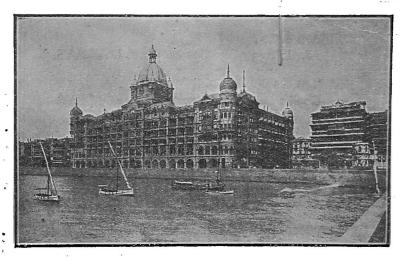


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    - DISCOUNT ACCOUNTS—Opened and approved Mercantile Bills discounted.
    - GOVERNMENT AND OTHER SECURITIES—Received for safe custody, Purchases and Sales effected and Interest and Dividends collected.

Copies of Rules, Powers of Attorney, &c., may be had on application at the Head Office and at any of the Branches.

J. BEGBIE,

Secretary and Treasurer.

#### THE

## **BRITISH DOMINIONS**

General Insurance Co., Ltd.

(Incorporated in England.)

Authorised Capital	 	 Rs.	90,00,000
Paid-up Capital	 •••	 ,,	45,00,000
Reserves Funds	 	 	48.64.425

HEAD OFFICE:—I, Royal Exchange Avenue, London, E.C. BANKERS:—The Bank of England, The London City and Midland Bank, Ltd.

Insurances effected on Bungalows, Factories and Property of all descriptions.

Furniture, Personal Effects and every class of Risk at current rates.

MARINE. All classes of Insurance covered at the lowest current rates; Fire and Theft in transit, etc.

WAR RISKS. A special feature of the Company's business.

All claims settled without reference to Head Office

A. M. TOD, Manager for India and Burma, Standard Buildings, Hornby Road, BOMBAY.

Chief Agents in India and Burma:

	0
	S. J. David & Co., 7, Esplanade Road, BOMBAY
	Shaw Wallace & Co.,
,,	Beaumont & Co., Marine Agents KARACHI
. ,,	Macdonald & Co., Fire & Marine Agents . ,,
"	Yusafali Alibhoy Karimji & Co., (Marine Agents) H. Md. Badsha Sahib & Co.,
**	H. Md. Badsha Sahib & Co., MADRAS
,,	Harperink Smith & Co., RANGOON
11	Henderson Bros MOULMEIN

Full particulars on application to the Manager or any of the Company's Agents

OR TO

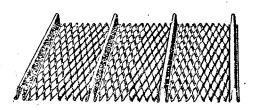
Messrs. Grindlay & Co., Bombay.

## Marsland, Price & Co.,

LIMITED.

Reinforced Concrete Specialists, Sanitary and Constructional Engineers & & &

Nesbit Road, Mazagon, BOMBAY.



#### Agents for-

Twyford's Sanitary Fittings.
Adam's Sewage Installations.
Lammit Asbestos Slates.
Lammit Asbestos Sheets.
Lammit Corrugated Asbestos Sheets.
Congo Never Leak Roofing.
John Williams' Malleable Sashes.
Fenner & Alder's Paints and Distempers.
Trussit Reinforcement.
Expanded Metal.
Twisted Bars.