



INDIAN MINES ACT, 1923

ANNUAL REPORT

OF THE

CHIEF INSPECTOR OF MINES IN INDIA

FOR THE YEAR ENDING

31st DECEMBER 1931



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STATISTICS OF MINES.

Table

Number of workers and output of minerals during the

Province.	District and Mineral field.	Total Output.	Average number of							
			Underground.							
			Males.						Females.	Total Males and Females.
			Overmen and Sirdars.	Coal-cutters.	Loaders.	Other skilled labour.	Other unskilled labour.	Total Males.		
Assam	Lakhimpur, Makum coalfield	Tons. 236,965	87	281	251	252	655	1,470	...	1,476
	Naga Hills, Nazira "	84,963	23	51	64	51	190	384	...	384
	Sibsagar	850	1	3	2	...	2	8	...	8
	Total	274,378	110	285	317	303	853	1,868	...	1,868
Baluchistan	Quetta-Pishin Sor Range coalfield.	9,051	8	33	70	1	...	112	...	112
	Sibi Khoet coalfield . . .	3,821	5	20	33	...	...	57	...	57
	Total	13,472	13	53	102	1	...	169	...	169
Bengal	Bankura	7,230	7	30	17	1	15	70	13	83
	Birbhum	1,019	3	5	3	1	1	13	2	15
	Burdwan	5,901,935	743	12,300	4,374	3,468	4,626	25,508	5,581	31,089
	Total	5,910,184	753	12,335	4,394	3,468	4,642	25,591	5,596	31,187
Bihar and Orissa.	Manbhum—Raniganj coalfield (part of)	tons. 622,454	108	2,015	300	329	950	3,607	824	4,631
	Jharis "	9,699,511	1,165	17,839	6,761	4,545	5,962	36,282	7,907	44,249
	Hazaribagh—Jharis coalfield (part of)	55,528	7	113	56	20	24	220	45	265
	Bokaro "	1,666,597	38	643	305	163	224	1,572	203	1,775
	Girdih "	713,133	161	3,363	480	231	686	4,370	844	6,728
	Karanpura "	461,608	36	631	64	69	74	1,074	268	1,387
	Ranehi—Karanpura coalfield (part of)	70	...	6	...	2	4	14	5	19
	Palamanu—Dalkonganj coalfield	411	...	...	...	...	...	...	...	...
	Carried over	13,216,310	1,515	25,001	8,024	5,358	7,050	47,648	10,151	57,999

DIX I.
AND MINERALS.

No. I.
year 1931 at mines under the Indian Mines Act.

persons employed daily in and about the mines.

Overmen and Bharas.	Open workings:							Total - Underground and Open workings.	Surface.						Grand Total.
	Males.								Males.						
	Coalmen.	Loaders.	Other skilled labour.	Other unskilled labour.	Total Males.	Females.	Total Males and Females.		Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.	Females.	Total Males and Females.	
A.L. Coal 14	77	116	77	314	598	131	719	2,195	46	123	388	566	110	676	2,871
...	...	...	...	...	...	...	...	384	15	80	180	385	5	240	624
...	...	1	1	...	...	...	...	11	...	...	...	...	...	10	21
15	77	117	78	314	601	131	732	2,590	63	196	551	811	115	926	3,516
...	...	...	...	...	...	...	...	113	1	...	28	21	...	21	133
1	4	3	...	...	...	...	...	65	...	...	...	...	...	...	68
1	4	3	...	...	...	...	...	177	1	...	20	21	...	21	198
1	6	...	1	2	10	4	14	97	13	5	3	20	10	30	127
...	...	...	...	...	...	...	...	15	1	6	4	8	6	14	29
8	141	9	54	800	573	456	1,029	32,117	1,410	3,100	4,071	9,490	2,870	12,360	42,487
9	127	9	55	383	533	490	1,043	33,539	1,432	3,108	4,973	9,518	2,905	12,413	44,642
4	32	11	5	16	66	31	97	4,728	160	356	742	1,268	468	1,736	6,464
47	513	100	90	318	1,023	533	1,015	45,884	1,789	3,936	10,329	10,024	5,268	21,297	67,181
...	...	...	...	...	...	...	...	265	17	29	98	154	71	225	490
102	2,001	680	115	1,804	5,402	3,108	8,510	10,235	264	645	1,580	2,450	1,280	3,730	14,024
3	70	17	5	2	97	43	139	5,862	101	141	1,062	1,384	390	1,694	7,555
1	294	168	77	336	666	167	1,033	2,370	79	189	253	560	163	713	2,082
...	...	...	...	...	...	...	...	19	5	...	15	20	11	31	50
1	6	...	...	...	7	2	9	9	...	...	...	...	...	...	9
128	3,611	535	202	2,822	7,620	3,853	11,406	63,401	3,335	5,306	14,118	21,50	7,606	29,115	98,917

APPEN
STATISTICS OF MINES

Table
Number of workers and output of minerals during the

Province.	District and Mineral field.	Total Output.	Average number of								
			Underground.								
			Males.							Pumps.	Total Males and Females.
			Ovemen and Sirdars.	Coal-cutters.	Loaders.	Other skilled labour.	Other unskilled labour.	Total Males.			
		Tons.								CO	
Bihar and Orissa—contd.	Brought forward	13,315,310	1,515	35,001	8,094	5,348	7,950	47,843	10,151	57,999	
	Sambalpur— Hingir Rampur coalfield	81,320	5	40	30	15	5	95	22	117	
	Sonthal Parganas— Jainty coalfield	50,178	17	171	88	88	30	343	23	365	
	Raniganj coalfield (part of).	92,075	14	317	4	51	28	449	67	516	
	Total	13,398,763	1,551	35,439	8,144	5,443	8,068	48,734	10,263	59,997	
Central Provinces.	Chanda	233,035	23	359	402	84	208	1,646	152	1,798	
	Chhindwara, Pench Valley coalfield.	750,015	64	1,374	647	323	239	3,707	621	4,328	
	Total	973,040	96	2,233	1,049	407	568	5,353	773	6,126	
Panjab	Jhelum, Salt Range coalfield	27,389	27	154	74	64	88	425	...	425	
	Misrawal "	22,551	7	43	41	6	23	124	...	134	
	Shahpur "	4,628	3	26	...	3	27	88	...	88	
	Total	54,540	36	223	115	63	141	607	...	607	
	Grand Total (Coal) for 1931.	30,514,507	2,558	41,657	14,121	9,714	14,372	82,322	16,623	98,944	
	Ditto of preceding year.	22,683,861	2,841	40,333	12,646	10,450	15,495	81,635	15,227	96,862	
	Difference	-2,169,264	-283	+1,424	+1,475	-736	-1,223	+687	-1,655	-206	

DIX I—contd.

AND MINERALS—contd.

No. I—contd.

year 1981 at mines under the Indian Mines Act—contd.

persons employed daily in and about the mines.

Overmen and Sirdars.	Open workings.							Total Underground and Open workings.	Surface.						Grand Total.	
	Males.						Total Males and Females.		Males.					Total Males and Females.		
	Coal-cutters.	Loaders.	Other skilled labour.	Other unskilled labour.	Total Males.	Females.			Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.	Females.			
AI—contd.	168	3,611	935	293	2,524	7,520	3,683	11,403	69,402	2,385	5,306	14,118	21,909	7,006	29,415	98,817
...	...	...	...	...	...	...	...	...	117	...	39	9	88	20	58	175
...	...	...	...	...	...	...	...	...	365	37	61	37	195	19	214	579
...	...	...	...	...	...	...	...	...	516	30	51	75	157	58	215	781
158	3,611	935	293	2,524	7,520	3,683	11,403	70,400	2,442	5,467	14,390	22,199	7,703	29,902	100,302	
...	...	...	...	...	...	...	...	...	1,798	53	104	376	533	110	643	2,441
...	...	...	2	...	3	3	5	4,333	86	531	708	1,315	535	1,850	6,183	
...	...	...	2	...	3	3	5	6,131	130	625	1,084	1,848	645	2,493	8,624	
...	...	...	...	...	...	...	...	...	425	21	67	156	255	...	355	680
...	...	...	...	...	...	...	...	...	124	7	8	65	80	5	84	309
...	...	...	...	...	...	...	...	...	59	5	5	36	38	...	38	96
...	...	...	...	...	...	...	...	...	607	34	80	259	373	5	378	985
183	3,639	1,064	427	3,500	8,713	4,467	13,180	112,184	4,110	9,478	31,122	34,770	11,363	46,133	158,367	
144	4,577	1,666	523	4,333	11,163	5,637	16,779	116,731	4,367	10,593	24,346	39,308	12,963	52,270	169,001	
+89	-738	-523	-96	-1,122	-2,439	-1,160	-2,599	-4,567	-257	-1,115	-8,16	-4,538	-1,599	-6,187	-10,734	

DIX I—contd.

AND MINERALS—contd.

No. I—contd.

year 1931 at mines under the Indian Mines Act—contd.

daily in and about the mines.

Open workings.							Total Underground and Open workings.	Surface.					Grand Total.	
Males.					Females.	Total Males and Females.		Males.				Females.		Total Males and Females.
Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.			
ORE														
62	1,779	195	155	2,191	1,101	3,292	3,292	88	170	967	1,225	430	1,655	4,947
...	...	...	7	7	...	7	7	...	...	...	...	...	...	7
...	...	...	...	...	...	...	...	8	5	26	34	...	34	34
4	...	2	158	164	14	178	178	1	1	11	13	...	13	191
4	...	2	165	171	14	185	185	4	6	87	47	...	47	232
66	1,779	197	820	2,362	1,115	3,477	3,477	92	176	1,004	1,372	430	1,702	5,179
101	2,259	354	467	3,161	1,526	4,707	4,707	131	168	921	1,220	359	1,579	6,286
-35	-480	-157	-147	-819	-411	-1,230	-1,230	-39	+8	+83	+52	+71	+123	-1,107
ORE														
8	236	8	10	262	97	359	359	5	3	33	41	35	96	455
1	...	...	28	29	16	45	45	...	...	...	...	...	...	45
30	512	16	...	538	393	933	933	14	24	202	240	54	294	1,247
31	512	16	28	567	411	998	998	14	24	202	240	54	294	1,392

APPEN
STATISTICS OF MINES

Table

Number of workers and output of minerals during

Province.	District and Mineral field.	Total Output.	Average number of persons employed							
			Underground.							
			Males.						Females.	Total Males and Females.
			Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.			
		Tons.	MANGANESE							
Central Provinces	Balaghat . . .	119,466	17	981	1	122	521	...	521	
	Bhandara . . .	82,999	..	..	..	..	..	..	..
	Chhindwara . . .	16,404	4	30	16	5	55	..	55	
	Nagpur . . .	83,475	5	116	5	1	127	..	127	
	Total	302,344	26	527	22	128	703	..	703	
Madras . . .	Bellary . . .	44	..	..	..	..	..	..	..
	Vizagapatam . . .	5,389	..	..	..	..	..	..	..
	Total	5,433	..	..	..	..	..	..	..
Grand Total (Manganese ore) for 1931.		347,373	26	527	22	128	703	..	703	
Grand Total (Manganese ore) for preceding year.		623,678	39	729	50	171	969	..	969	
Difference . . .		-276,305	-13	-202	-28	-43	-266	..	-266	

DIX I—*contd.*AND MINERALS—*contd.*No. I—*contd.*the year 1931 at mines under the Indian Mines Act—*contd.*

daily in and about the mines.

Open workings.					Total Males and Females.	Total Males and Females.	Total Underground and Open workings.	Surface.					Total Males and Females.	Grand Total.
Males.				Females.				Males.				Females.		
Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.					Total Males.	Clerical and supervising staff.	Skilled labour.	Unskilled labour.				Total Males.
ORE— <i>contd.</i>														
53	753	2	138	941	945	1,886	2,407	28	84	240	302	290	592	2,999
42	392	9	210	1,193	1,195	2,388	2,388	20	11	153	184	126	310	2,698
6	49	8	1	64	70	134	189	7	24	55	86	51	137	328
101	1,272	29	65	1,467	1,269	2,736	2,863	45	36	331	412	210	622	3,485
202	3,006	48	409	3,665	3,479	7,144	7,847	100	105	779	984	677	1,661	9,508
...	...	4	2	6	4	10	10	2	...	2	4	...	4	14
7	423	1	1	432	224	656	656	7	15	35	57	...	57	718
7	423	5	3	438	228	666	666	9	15	37	61	...	61	727
248	4,177	77	450	4,952	4,215	9,167	9,870	128	147	1,051	1,326	786	2,112	11,982
412	5,969	219	741	7,341	5,810	13,151	14,140	224	384	1,639	2,197	1,321	3,518	17,658
164	1,792	142	291	2,389	1,595	3,984	4,270	96	187	588	871	535	1,406	5,676

APPEN
STATISTICS OF MINES

Table
Number of workers and output of minerals during the

Province.	District and Mineral field.	Total Output.	Average number of persons employed						
			Underground.					Females.	Total Males and Females.
			Males.						
			Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.		
		Tons.							TIN
Burma	Amherst	8½	...	...	...	...	...	...
	Mergui	497	4	37	...	16	57	57	
	Tavoy	2,045	10	811	90	696	1,607	1,607	
	Thaton	1	...	...	...	...	...	...
	Grand Total (Tin Ore) for 1931.	3,551½	14	848	90	712	1,684	1,684	
	Grand Total (Tin Ore) for preceding year.	3,001	16	1,047	80	26	1,119	1,119	
Difference	-449½	-2	-199	+60	+686	+545	+545		
		Tons.							WOLFRAM
Burma	Mergui	98						Figures included	
	Tavoy	671							
	Grand Total (Wolfram Ore) for 1931.	969	...	...	...	...	...	...
	Grand Total (Wolfram Ore) for preceding year.	1,509	...	...	...	...	...	...
Difference	-540	...	...	...	...	...	...
		Tons.							CHROMITE
Baluchistan	Zhob	12,189	6	39	...	...	45	45

DIX I—contd.

AND MINERALS—contd.

No. I—contd.

year 1931 at mines under the Indian Mines Act—contd.

daily in and about the mines.

For men and Males.	Open workings.						Total Underground and Open workings.	Surface.						Grand Total.
	Males.				Females.	Total Males and Females.		Males.			Females.	Total Males and Females.		
	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervising staff.	Skilled labour.	Unskilled labour.			Total Males.	
ORE.														
...	...	58	24	82	40	122	122	...	...	...	...	...	...	122
27	708	204	452	1,481	20	1,501	1,558	34	70	16	120	...	120	1,678
34	694	94	1,466	2,238	74	2,362	3,069	97	32	58	167	...	187	4,156
...	...	3	...	3	...	3	3	...	1	...	1	...	1	4
61	1,492	359	1,942	3,854	134	3,988	5,652	131	103	74	308	...	308	5,960
73	3,705	594	1,775	6,147	281	6,878	7,497	166	124	431	731	7	738	8,225
-12	-2,213	-235	+167	-2,293	-97	-2,390	-1,845	-35	-21	-357	+413	-7	-420	-2,285
ORE.														
in those for Tin Ore.														
...
...
...
ORE														
8	64	...	...	72	...	72	117	8	...	72	78	...	78	195

APPEN
STATISTICS OF MINES

Table
Number of workers and output of minerals during the

Province.	District and Mineral field.	Total Output.	Average number of persons employed							
			Underground.					Females.	Total Males and Females.	
			Males.							
			Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.			
Bihar and Orissa	Singhbhum . . .	Tons. 2,749	...	...	...	...	...	...	...	CHROMITE
	Grand Total (Chromite Ore) for 1931.	14,938	6	89	...	...	45	...	45	
	Grand Total (Chromite Ore) for preceding year.	30,488	8	161	...	...	169	...	169	
	Difference . . .	-15,550	-2	-122	...	...	-124	...	-124	
Bihar and Orissa.	Manbhumi Singhbhum . . .	Tons. 153,686	2 3	10 16	...	367 885	12 1,271	...	12 1,371	COPPER
	Total . . .	153,686	5	26	367	885	1,283	...	1,363	
	Burma . . .	Henzada . . .	...	...	...	...	...	...	...
	Grand Total (Copper Ore) for 1931.	153,686	5	26	367	885	1,283	...	1,363	
	Grand Total (Copper Ore) for preceding year.	123,749	4	11	232	476	723	...	723	
	Difference . . .	-29,887	+1	+15	+135	+409	+560	...	+560	

DIX I—*contd.*AND MINERALS—*contd.*No. I—*contd.*year 1931 at mines under the Indian Mines Act—*contd.*

daily in and about the mines.

Open workings.							Total Underground and Open workings.	Surface.						Grand Total.	
Males.					Females.	Total Males and Females.		Males.				Females.	Total Males and Females.		
Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervis- ing staff.	Skilled labour.	Unskilled labour.	Total Males.				
ORE—<i>contd.</i>															
29	238	26	25	318	337	655	655	5	23	2	30	27	57	712	
37	302	26	25	390	387	727	723	8	23	77	108	27	135	907	
41	327	82	56	506	403	909	1,078	20	30	105	155	35	190	1,268	
-4	-25	-56	-31	-116	-66	-182	-306	-12	-7	-23	-47	-8	-55	-361	
ORE.															
...	...	...	...	...	...	...	12	...	...	12	12	16	28	40
...	...	...	...	...	...	...	1,271	19	108	229	356	192	468	1,759
...	...	...	...	...	...	...	1,263	19	108	241	368	148	516	1,799
...	...	...	7	7	...	7	7	...	...	...	...	...	...	7
...	...	...	7	7	...	7	1,290	19	108	241	363	148	516	1,506
...	...	...	9	9	...	9	782	15	100	184	299	67	366	1,098
...	...	...	-2	-2	...	-2	+558	+4	+8	+57	+69	+81	+150	+708

APPEN
STATISTICS OF MINES

Table

Number of workers and output of minerals during the

Province.	District and Mineral field.	Total Output.	Average number of persons employed						
			Underground.						
			Males.					Females.	Total Males and Females.
			Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.		
Burma	Northern Shan States.	Tons. 13,437						COPPER Figures included	
	Total of preceding year.	17,146	...	...	...	...	...	...	...
	Difference	-3,709	...	...	...	...	...	...	...
Burma	Northern Shan States.	Tons. 2,911						NICKEL Figures included	
	Total of preceding year.	3,150	...	...	...	...	...	...	...
	Difference	-239	...	...	...	...	...	...	...
Burma	Northern Shan States.	Tons. 51,455						ZINC CON Figures included	
	Total of preceding year.	57,620	...	...	...	...	...	...	...
	Difference	-6,165	...	...	...	...	...	...	...
Burma	Katha	Value.							GB
		Rubies Sapphires	Rs. 40,364 Rs. 2,500	...	...	...	...	...	...

DIX I—contd.

AND MINERALS—contd.

No. I—contd.

year 1931 at mines under the Indian Mines Act—contd.

daily in and about the mines.

Open workings.					Females.	Total Males and Females.	Total Underground and Open workings.	Surface.					Females.	Total Males and Females.	Grand Total.
Males.								Males.							
Foremen and Matees.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.				
MATTIE.															
in those for lead ore.															
...	
...	
SPEISS.															
in those for lead ore.															
...	
...	
CENTRATES.															
in those for lead ore.															
...	
...	
MS.															
120	550	670	...	670	670	26	...	...	26	...	26	696	

APPEN
STATISTICS OF MINES

Table
Number of workers and output of minerals during the

Provinces.	District and Mineral field.	Total Output.	Average number of persons employed						
			Underground.						
			Males.					Females.	Total Males and Females.
			Foremen and Mistes.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.		
		Cwt.						MI	
Bihar and Orissa.	Gaya	6,051	37	945	325	265	1,592	...	1,592
	Hazaribagh	25,677	293	4,205	224	988	5,660	...	5,660
	Monghyr	92	8	44	27	21	100	...	100
	Total	31,720	338	5,194	576	1,244	7,352	...	7,352
Madras	Nellore	6,893	45	391	86	478	995	...	995
	Nilgiris	65	1	8	1	6	16	...	16
	Total	6,958	46	399	87	479	1,011	...	1,011
Rajputana	Ajmer-Merwara	185	6	34	...	17	57	...	57
	Grand Total (Mica) for 1931.	38,863	390	5,627	663	1,740	8,420	...	8,420
	Grand Total (Mica) for preceding year.	52,519	568	6,415	1,100	2,121	10,284	...	10,284
	Difference	-13,656	-168	-788	-527	-381	-1,864	...	-1,864

DIX I—*contd.*AND MINERALS—*contd.*No. I—*contd.*year 1931 at mines under the Indian Mines Act—*contd.*

daily in and about the mines.

F o r e m e n a n d M a t e s.	Open workings.							T o t a l U n d e r g r o u n d a n d O p e n w o r k i n g s.	Surface.						G r a n d T o t a l.	
	Males.					F e m a l e s.	T o t a l M a l e s a n d F e m a l e s.		Males.				F e m a l e s.	T o t a l M a l e s a n d F e m a l e s.		
	M i n o r s.	O t h e r s k i l l e d l a b o u r.	O t h e r u n s k i l l e d l a b o u r.	T o t a l M a l e s.	T o t a l M a l e s.				C l e r i c a l a n d s u p e r v i s i n g s t a f f.	S k i l l e d l a b o u r.	U n s k i l l e d l a b o u r.	T o t a l M a l e s.				T o t a l M a l e s a n d F e m a l e s.
CA.																
42	1,810	460	115	1,927	30	1,957	3,549	81	335	65	481	26	507	4,056		
60	791	1	76	928	33	961	6,621	139	315	452	916	290	1,206	7,827		
4	41	1	...	46	2	48	148	18	4	12	34	3	37	186		
106	2,142	462	191	2,901	65	2,966	10,318	248	654	529	1,431	319	1,750	12,068		
33	125	189	175	473	519	991	1,956	56	112	140	308	385	693	2,679		
...	...	...	...	...	...	...	16	1	3	3	7	2	9	25
33	125	189	175	473	519	991	2,002	57	115	143	315	387	702	2,704		
7	40	2	11	80	18	98	155	...	28	...	28	...	28	178		
146	2,327	603	377	3,458	602	4,055	12,475	305	732	672	1,769	706	2,475	14,950		
176	1,638	317	778	2,909	1,634	4,543	14,827	431	734	930	2,095	1,144	3,239	18,066		
-30	+689	-286	-401	+544	-1,032	-488	-2,352	-126	+58	-268	-326	-438	-764	-3,116		

DIX I—*contd.*AND MINERALS—*contd.*No. I—*contd.*year 1951 at mines under the Indian Mines Act—*contd.*

daily in and about the mines.

Foremen and Mates.	Open workings.						Total Underground and Open workings.	Clerical and supervising staff.	Surface.						Grand Total.
	Males.					Females.			Males.				Females.	Total Males and Females.	
	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.	Total Males and Females.				Skilled labour.	Unskilled labour.	Total Males.	Total Males and Females.			
LT.															
1	14	...	...	15	...	15	741	1	48	199	245	1	246	987
...	...	...	...	...	...	...	78	...	...	70	70	...	70	143
...	...	...	...	...	...	...	178	...	7	55	62	...	62	235
1	14	...	...	15	...	15	987	1	55	321	377	1	378	1,865
1	10	...	...	11	...	11	1,281	1	50	328	379	1	380	1,661
...	+4	...	...	+4	...	+4	-294	...	+5	-7	-2	...	-2	-296
SITE.															
10	88	...	43	141	53	224	224	11	110	...	121	3	124	348	
31	286	...	185	452	292	744	744	16	141	9	166	31	197	941	
-21	-176	...	-92	-311	-209	-520	-520	-5	-31	-9	-45	-28	-73	-593	

DIX I—contd.

AND MINERALS—contd.

No. I—contd.

year 1931 at mines under the Indian Mines Act—contd.

daily in and about the mines.															
Open workings.								Total Underground and Open workings.	Surface.						Grand Total.
Males.					Females.	Total Males and Females.	Males.				Females.	Total Males and Females.			
Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.			Clerical and supervis- ing staff.		Skilled labour.	Unskilled labour.			Total Males.		
TITE.															
4	20	...	9	33	46	79	103	2	6	10	18	16	34	137	
1	26	...	9	36	34	70	92	2	4	2	8	22	30	123	
...	...	12	...	12	...	12	12	1	...	4	5	...	5	17	
1	27	...	...	28	...	28	28	...	...	...	...	...	...	28
..	...	46	50	96	...	96	273	...	6	...	8	...	6	279	
6	73	58	68	205	80	285	508	5	16	16	37	38	75	583	
9	61	42	84	196	121	317	471	3	8	7	18	42	60	531	
-3	+12	+16	-16	+9	-41	-32	+37	+2	+8	+9	+19	-4	+15	-52	
TE.															
12	39	46	43	140	28	166	166	...	...	...	...	...	...	166
3	...	42	...	45	18	63	63	1	...	...	1	...	1	64
15	39	66	43	165	44	229	229	1	...	...	1	...	1	230

DIX I—contd.

AND MINERALS—contd.

No. I—contd.

year 1930 at mines under the Indian Mines Act—contd.

daily in and about the mines.

Open workings.							Total Underground and Open workings.	Surface.					Grand Total.	
Males.				Females.	Total Males and Females.	Males.				Females.	Total Males and Females.			
Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.			Total Males.		Clerical and supervis- ing staff.	Skilled labour.			Unskilled labour.		Total Males.
TE—contd.														
3	67	26	25	121	...	121	129	3	..	3	5	...	5	134
36	55	...	...	91	...	91	210	...	...	...	...	...	...	216
39	122	26	25	212	...	212	339	3	...	3	5	...	5	344
54	161	114	68	397	44	441	568	3	...	3	6	...	6	574
70	146	123	96	457	68	505	586	1	10	4	15	...	15	601
-16	+15	-9	-30	-40	-24	-64	-18	+2	-10	-1	-9	...	-9	-27
STONE.														
97	396	110	648	1,191	203	1,396	1,396	83	63	104	250	14	264	1,660
3	...	...	12	15	8	23	23	2	...	5	7	4	11	34
100	896	110	660	1,206	213	1,419	1,419	35	63	109	257	18	275	1,694
33	60	2	245	340	...	340	340	1	2	4	7	...	7	347
8	15	14	75	107	12	119	119	5	...	...	5	...	5	124
...	...	...	6	6	...	6	6	...	...	...	...	...	...	6
1	...	3	139	143	...	143	143	...	...	...	...	...	...	143
4	15	17	220	256	12	268	268	5	...	...	5	...	5	273
14	193	8	403	618	551	1,169	1,169	10	28	102	140	42	182	1,351
28	169	192	472	861	1,156	2,017	2,017	21	31	110	162	169	331	2,348
...	48	10	...	58	39	97	97	5	2	18	25	11	36	133
4	...	...	53	57	2	59	59	1	...	55	56	...	56	95
46	410	210	928	1,594	1,748	3,342	3,342	37	61	265	363	222	586	3,927

APPENDIX
STATISTICS OF MINES.

Table
Number of workers and output of minerals during the

Province.	District and Mineral field.	Total Output.	Average number of persons employed						
			Underground.						
			Males.					Females.	Total Males and Females.
			Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.		
Punjab	Attock	Tons. 138,491	...	...	...	...	...	LIME
	Jhelum	31,530	...	...	...	...	...
	Rawalpindi	71,086	...	...	...	...	...
	Shahpur	3,200	...	...	...	...	...
	Total	244,107	...	...	...	...	...
	Grand Total (Limestone) for 1931.	562,226	...	...	...	...	...
	Grand Total for preceding year.	1,148,812	...	...	...	...	...
	Difference	-281,066	...	...	...	...	...
Bengal	Birbhum	Tons. 58,790	...	...	...	...	...	STONE (CHIEFLY IGNEOUS)
Bihar and Orissa	Gaya	32,066	...	...	...	...	...
	Monghyr	11,111	...	...	...	...	...
	Shahabad	37,163	...	...	...	...	...
	Singhbhum	51,387	6	15	...		21
	Sonthal Parganas	320,092	...	...	...	...	...	...
	Total	451,839	...	...	6	15	...	21
Bombay	Bombay	43,800	...	...	...	...	...	...
	Bombay Suburban	15,325	...	...	...	...	...	...
	Hyderabad	4,152	...	...	...	...	...	...
	Kaira	20,333	...	...	...	...	...	...
	Karachi	5,707	...	...	...	...	...	...
	Nasik	2,400	...	...	...	...	...	...
	Suktur	327,571	...	...	...	...	...	...
	Surat	53,488	...	...	...	...	...	...
Thana	51,738	...	...	...	...	...	...
	Total	524,494	...	...	...	...	...	...

DIX I—contd.

AND MINERALS—contd.

No. I—contd.

year 1931 at mines under the Indian Mines Act—contd.

daily in and about the mines.

Open workings.								Total Underground and Open workings.	Surface.						Grand Total.	
Males.				Females.	Total Males and Females.	Males.				Females.	Total Males and Females.					
Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.			Total Males.	Clerical and supervising staff.		Skilled labour.			Unskilled labour.	Total Males.			
STONE—contd.																
27	46	...	189	262	...	262	262	11	6	250	267	...	267	529		
2	50	...	...	52	...	52	52	2	...	60	68	...	68	120
6	77	30	40	155	...	155	155	7	3	225	235	...	235	390		
3	10	27	...	40	...	40	40	2	2	1	6	...	6	40		
40	188	57	229	509	...	509	509	23	11	542	576	...	576	1,065		
228	1,004	396	2,282	3,906	1,973	5,879	5,876	131	137	920	1,208	240	1,448	7,826		
259	1,662	223	2,360	4,504	2,712	7,216	7,216	147	188	1,347	1,682	217	1,899	9,115		
-86	-658	+173	-76	-599	-739	-1,338	-1,338	+4	-51	-427	-474	+28	-451	-1,789		
ROCK)																
1	155	3	40	199	10	209	209	14	46	230	290	58	348	557		
23	267	...	...	310	165	475	475	...	...	...	...	...	...	475
2	...	8	60	70	52	122	122	...	4	...	4	...	4	126		
6	...	209	18	233	155	388	388	...	...	...	...	...	...	388
12	80	122	123	337	155	522	543	8	47	129	164	86	220	763		
13	190	211	394	807	47	854	854	60	289	596	945	354	1,299	2,153		
55	557	550	595	1,757	604	2,361	2,362	68	340	725	1,133	390	1,523	3,905		
14	7	11	56	88	...	88	88	10	21	98	129	24	153	241		
...	...	...	25	25	...	25	25	2	13	31	46	...	46	71
...	...	...	32	32	...	32	32	...	...	...	...	...	...	32
2	...	10	...	12	...	12	12	5	3	60	68	10	78	90		
...	...	29	...	80	...	80	80	...	...	20	20	...	20	100
...	...	...	100	100	100	200	200	...	...	...	...	...	...	200
31	87	104	590	808	10	818	818	22	2	45	69	45	114	332		
9	19	51	180	259	173	432	432	6	1	...	7	...	7	439		
15	30	...	200	245	141	386	386	9	...	3	17	...	17	403		
71	143	193	1,243	1,649	424	2,073	2,073	54	40	292	356	79	435	2,508		

APPEN
STATISTICS OF MINES

Table
Number of workers and output of minerals during the

Province.	District and Mineral field.	Total Output.	Average number of persons employed						
			Underground.						
			Males.					Females.	Total Males and Females.
			Foremen and Mate.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.		
			STONE (CHIEFLY IGNEOUS)						
Burma	Bassien	1,500	..	..	..	..	..	..
	Lower Chhindwin	21,785	..	..	..	..	..	..
	Meiktila	480	..	..	..	..	..	..
	Taroy	6,840	..	..	..	..	..	..
	Thaton	170,517	..	..	..	..	..	..
	Toungoo	12,306	..	..	..	..	..	..
	Total	213,978	..	..	..	..	..	..
Central Provinces.	Akola	18,506	..	..	..	..	..	..
	Amrohi	7,562	..	..	..	..	..	..
	Chanda	2,408	..	..	..	..	..	..
	Saugor	3,532	..	..	..	..	..	..
	Total	29,008	..	..	..	..	..	..
Madras	Chingleput	88,413	..	..	..	..	..	..
	East Godavari	2,518	..	..	..	..	..	..
	Guntur	1,354	..	..	..	..	..	..
	Madura	450	..	..	..	..	..	..
	Ramnad	200	..	..	..	..	..	..
	Tinavelly	705	..	..	..	..	..	..
	Total	93,640	..	..	..	..	..	..
Punjab	Jhelum	33,528	..	..	..	..	..	..
	Mianwali	45,640	..	..	..	..	..	..
	Bawalpindi	8,000	..	..	..	..	..	..
	Shahpur	22,000	..	..	..	..	..	..
	Sheikhupura	23,004	..	..	..	..	..	..
	Total	137,170	..	..	..	..	..	..
United Provinces.	Allahabad	1,991	..	..	..	..	..	..
	Banda	6,643	..	..	..	..	..	..
	Jhansi	28,620	..	..	..	..	..	..
	Saharanpur	63,020	..	..	..	..	..	..
	Total	99,273	..	..	..	..	..	..
	Grand Total (Stone) for 1931.	1,607,592	..	..	6	5	..	21
	Grand Total (Stone) for preceding year.	2,207,497	..	..	..	..	..	..
	Difference	-659,905	..	..	+6	+15	..	+21

DIX I—*contd.*AND MINERALS—*contd.*No. 1—*contd.*year 1931 at mines under the Indian Mines Act—*contd.*

daily in and about the mines.

Open workings.						Total Males and Females.		Total Underground and Open workings.		Surface.						Grand Total.
Males.					Females.					Males.					Females.	
Foremen and Males.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.						Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.	Total Males and Females.		
...	...	...	46	46	...	46	46	...	...	...	...	...	...	46
...	...	...	281	281	...	281	281	22	...	...	22	...	22	303
...	...	10	...	10	5	15	15	...	...	...	...	...	...	15
...	...	...	90	90	70	160	160	...	...	...	...	...	...	160
8	1,150	73	473	1,704	40	1,744	1,744	27	10	40	77	...	77	1,821		
1	...	5	197	205	...	205	205	5	...	...	5	...	5	210
9	1,152	88	1,067	2,336	115	2,451	2,451	54	10	40	104	...	104	2,555		
9	...	...	210	219	141	360	360	6	...	...	6	...	6	366
4	...	...	90	94	60	154	154	12	...	...	2	...	2	156
2	...	...	40	42	40	82	82	...	...	...	...	...	...	82
...	...	...	20	20	...	20	20	...	...	...	...	...	...	20
15	...	...	363	375	241	616	616	8	...	...	8	...	8	624
...	...	234	121	355	175	530	530	29	...	230	259	338	592	1,122		
1	...	49	14	64	99	93	93	...	...	...	...	...	...	96
...	...	53	3	56	3	59	59	...	...	...	...	...	...	59
...	...	...	16	16	...	16	16	...	...	...	...	...	...	16
...	...	10	...	10	...	10	10	...	...	...	...	...	...	10
...	...	...	40	40	1	41	41	...	...	...	...	...	...	41
1	...	346	194	541	208	749	749	29	...	230	259	333	592	1,341		
8	63	...	118	190	9	199	199	8	5	14	22	...	22	221		
10	...	...	150	160	80	240	240	...	...	...	...	...	...	240
12	75	...	...	87	...	87	87	...	...	32	32	...	32	119
10	100	...	100	210	...	210	210	...	...	...	...	...	...	210
...	...	64	122	166	...	166	166	1	8	8	12	...	12	198		
40	238	65	490	833	89	922	922	4	8	54	66	...	66	988		
...	18	...	...	18	...	18	18	...	...	8	8	...	8	21
3	2	9	91	105	45	150	150	6	8	...	14	36	50	200		
16	258	55	331	331	18	349	349	37	51	145	233	172	347	636		
9	...	108	174	291	121	412	412	4	4	150	158	...	158	570		
28	273	172	267	740	184	924	924	47	63	308	418	150	563	1,487		
220	2,518	1,416	4,276	8,430	1,875	10,305	10,326	278	507	1,644	2,629	1,010	3,639	13,965		
257	3,818	994	4,987	10,058	1,893	11,449	11,449	253	514	2,164	2,931	649	3,580	15,029		
-37	-1,300	+422	-711	-1,626	+482	-1,144	-1,123	+25	-7	-320	-302	+361	+59	-1,064		

DIX I—contd.

AND MINERALS—contd.

No. 1—contd.

year 1931 at mines under the Indian Mines Act—contd.

daily in and about the mines.														
Open workings.							Total Underground and Open workings.	Surface.						Grand Total.
Males.					Females.	Total Males and Females.		Males.					Total Males and Females.	
Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.	Females.		
STONE.														
4	68	...	20	87	7	94	94	2	...	...	2	...	2	96
...	...	18	...	18	13	26	26	...	...	...	...	...	...	26
2	2	3	10	17	8	25	25	2	...	...	2	...	2	27
...	...	2	5	7	4	11	11	...	2	...	2	...	2	13
2	2	5	15	24	12	36	36	2	2	...	4	...	4	40
6	65	18	85	124	32	156	156	4	2	...	6	...	6	...
13	86	91	493	588	193	755	755	6	8	18	27	16	43	...
-7	+29	-63	-397	-438	-161	-599	-599	-2	-6	-13	-21	-16	-37	-636

APPEN
STATISTICS OF MINES

Table

Number of workers and output of minerals during the

Province.	District and mineral field.	Total Output.	Average number of persons employed						
			Underground.						
			Males.					Females.	Total Males and Females.
			Foremen and Matos.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.		
Burma	Thaton	Tons 49,866	...	...	...	...	...	...	LATE
	Toungoo	448	...	...	...	...	...	...	...
	Total	50,314	...	...	...	...	...	...	...
Central Provinces.	Jubbulpore	2,462	...	...	...	...	...	...	...
	Grand Total (Late-rite) for 1931.	52,776	...	...	...	...	...	...	...
	Grand Total for preceding year.	43,771	...	...	...	...	...	...	...
	Difference	+9,005	...	...	...	...	...	...	...
Bihar and Orissa. Madras	Singhbhum	7,197	}						GRA
	Chingleput	18,504							Figures inclu
	Grand Total (Gravel) for 1931.	25,701							...
	Grand Total for preceding year.	3,500							...
	Difference	+22,201							...

DIX I—contd.

AND MINERALS—contd.

No. 1—contd.

year 1931 at mines under the Indian Mines Act—contd.

daily in and about the mines.

Open workings.							Total Underground and Open workings.	Surface.					Grand Total.	
Males.				Females.	Total Males and Females.	Males.			Females.	Total Males and Females.				
Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.			Total Males.		Clerical and supervis- ing staff.			Skilled labour.	Unskilled labour.		Total Males.
RITE.														
...	...	1	10	11	...	11	11	1	...	...	1	...	1	13
...	...	...	28	28	...	28	28	...	...	...	...	...	...	28
...	...	1	38	39	...	39	39	1	...	...	1	...	1	40
2	3	...	43	43	20	63	63	1	...	3	4	...	4	
2	3	1	81	87	20	107	107	2	...	3	5	...	5	112
6	255	7	62	330	34	364	364	5	1	7	13	...	13	377
-4	-252	-6	+19	-243	-14	-257	-257	-3	-1	-4	-8	...	-8	-265
VEL.														
ded in those for stone.														
...
...

DIX I—*contd.*AND MINERALS—*contd.*No. 1—*contd.*year 1931 at mines under the Indian Mines Act—*contd.*

daily in and about the mines.

		Open workings.					Total Males and Females.	Total Underground and Open workings.	Surface.					Grand Total.		
		Males.							Females.	Males.					Females.	Total Males and Females.
		Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.			
RUM.																
Stone.																
...	...	4	215	219	180	349	349	1	7	...	8	...	8	357		
Stone.																
...	...	4	215	219	180	349	349	1	7	...	8	...	8	357		
Stone.																
...	...	4	215	219	180	349	349	1	7	...	8	...	8	357		
24	...	...	762	766	487	1,223	1,223	4	51	9	64	1	65	1,288
-24	...	+4	-547	-567	-307	-374	-374	-3	-44	-9	-56	-1	-57	-961		
CLAY.																
1	3	3	10	16	15	81	81	...	...	...	...	...	...	81
4	87	...	14	55	5	60	60	1	2	21	24	15	80	99		
1	16	4	...	23	18	41	41	1	18	12	26	7	83	74		
1	16	...	3	19	3	21	21	1	1	11	18	14	27	48		
6	71	4	16	97	25	123	122	3	16	44	63	36	99	221		

APPEN
STATISTICS OF MINES

Table

Number of workers and output of minerals during the

Province.	District and Mineral field.	Total Output.	Average number of persons employed						
			Underground.						
			Males:					Females.	Total Males and Females.
			Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.		
Central Provinces.	Jubbulpore	Tons. 19,399	...	...	...	...	...	...	FIRE
	Grand Total (Fire Clay) for 1931.	27,500	...	...	...	...	...	...	...
	Grand Total for preceding year.	61,909	...	4	4	...	8	...	8
	Difference	-34,409	...	-4	-4	...	-8	...	-8
Bihar and Orissa.	Bhagalpur	115	2	8	...	15	25	...	25
	Singhbhum	14,816	...	...	...	...	...	...	...
	Total	14,931	2	8	...	15	35	...	25
Delhi	Delhi	2,553	2	16	...	28	44	...	44
Rajputana	Ajmer-Merwara	400	...	...	...	...	...	...	...
	Grand Total (China Clay) for 1931.	17,884	4	24	...	41	69	...	69
	Grand Total for preceding year.	18,512	1	32	...	17	50	...	50
	Difference	+4,372	+8	-8	...	+24	+19	...	+19

DIX I—contd.

AND MINERALS—contd.

No. 1—contd.

year 1931 at mines under the Indian Mines Act—contd.

daily in and about the mines.

Open workings.								Total Underground and Open workings.	Surface.						Grand Total.		
Males.					Females.	Total Males and Females.	Males.					Total Males and Females.					
Foremen and Matos.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.			Total Males and Females.		Total Underground and Open workings.	Clerical and supervising staff.	Skilled labour.		Unskilled labour.	Total Males.		Females.	Total Males and Females.
CLAY—contd.																	
10	...	...	125	135	474	609	609	1	4	23	23	5	33	642	
17	74	6	151	248	514	762	762	4	20	67	91	41	132	694			
18	213	34	120	380	263	643	651	15	23	100	138	59	197	846			
+8	-139	-26	+31	-132	+251	+119	+111	-11	-3	-39	-47	-18	-65	+46			
CLAY.																	
1	...	...	20	21	7	28	53	4	2	11	17	...	17	70	
18	191	11	20	235	353	588	588	11	22	94	127	109	236	894			
14	191	11	40	256	360	616	641	15	24	105	144	109	253	894			
...	...	...	...	...	...	...	44	...	...	7	7	2	9	53
1	3	2	...	6	1	7	7	...	...	...	...	...	...	7
15	194	13	40	262	381	623	692	15	24	112	151	111	262	954			
11	116	3	62	192	220	412	462	16	25	49	92	65	157	619			
+4	+76	+10	-22	+70	+141	+211	+230	-3	-1	+63	+59	+46	+105	+335			

DIX I—*contd.*AND MINERALS—*contd.*No. 1—*contd.*year 1931 at mines under the Indian Mines Act—*contd.*

daily in and about the mines.

Open workings.							Total Underground and Open workings.	Surface.						Grand Total.
Males.					Females.	Total Males and Females.		Males.					Total Males and Females.	
Workmen and Matee.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervis- ing staff.	Skilled labour.	Unskilled labour.	Total Males.	Females.		
AY.														
2	...	...	10	12	4	16	16	...	...	...	...	...	...	16
1	...	28	66	95	62	157	157	8	...	...	8	...	8	165
3	...	8	4	15	8	23	23	1	...	...	1	...	1	24
for Limestone.														
6	...	36	80	122	74	196	196	9	...	...	9	...	9	205
3	46	...	18	67	54	121	121	1	...	...	1	...	1	122
+3	-46	+36	+62	+55	+20	+75	+75	+8	...	...	+8	...	+8	+83
TES.														
2	12	5	23	42	...	49	42	3	...	24	27	20	47	89
...	..	...	53	53	...	53	53	...	...	...	...	7	7	60
2	12	5	76	95	...	95	95	3	...	24	27	27	54	149
...	79	...	121	200	49	249	249	...	...	...	...	...	...	249
+2	-67	+5	-45	-105	-49	-154	-154	+3	...	+24	+27	+27	+54	-100

APPEN
STATISTICS OF MINES

Table

Number of workers and output of minerals during the

Provinces.	District and mineral field.	Total Output.	Average number of persons employed						
			Underground.						
			Males.					Females.	Total Males and Females.
			Foremen and Hates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.		
Burma	Tavoy	lb. 42	...	...	...	...	...	...	BIS Figures included in those
	Total for preceding year.	112	...	...	...	...	...	...	...
	Difference	-70	...	...	...	...	...	...	...
Rajputana	Ajmer-Merwara	Tons. 333	...	...	...	...	...	...	FELDS ...
	Total of preceding year.	39	1	...	...	7	8	...	8
	Difference	+294	-1	...	...	-7	-8	...	-8
Bihar & Orissa	Monghyr	lb. 100	...	...	...	...	...	...	COLUM ...
	Total of preceding year.	...	...	...	...	...	...	...	...
	Difference	+100	...	...	...	...	...	...	...
	Grand Total (Metal-liferous Mines) for 1931.	...	566	8,922	1,536	5,539	16,568	209	16,772
	Grand Total for preceding year.	...	826	12,492	1,909	4,755	19,994	397	20,381
	Difference	...	-262	-3,570	-373	+784	-3,421	-188	-3,609
	Grand Total (all Mines) for 1931.	...	...	...	...	...	93,585	16,841	115,726
	Grand Total for preceding year.	...	...	...	...	...	101,649	18,684	120,333
	Difference	...	...	...	...	...	-2,764	-1,843	-4,607

DIX I—contd.

AND MINERALS—concl'd.

No. 1—concl'd.

year 1931 at mines under the Indian Mines Act—concl'd.

daily in and about the mines.

Foremen and Males.	Open workings.					Females.	Total Males and Females.	Total Underground and Open workings.	Surface.					Grand Total.		
	Males.								Females.	Total Males and Females.	Males.				Females.	Total Males and Females.
	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.							Clerical and supervising staff.	Skilled labour.	Unskilled labour.				Total Males.
MUTH. for Tin.	
PAR.	1	...	6	8	1	9	9	9	
...	8	8	
+1	+1	...	+6	+8	+1	+9	+1	+1	
BITE.	1	28	...	8	37	...	37	37	8	...	4	7	26	83	70	
...	
+1	+28	...	+8	+37	...	+37	+37	+3	...	+4	+7	+26	+83	+70		
1,250	14,407	3,320	11,134	30,120	11,612	41,732	58,504	1,255	2,413	6,719	10,357	3,624	14,011	72,515		
1,511	21,348	3,108	18,289	39,244	15,559	54,803	75,184	1,531	2,888	8,982	13,401	4,081	17,482	92,666		
-261	-6,941	+226	-2,148	-9,124	-3,947	-18,071	-16,660	-276	-475	-2,268	-3,014	457	-3,471	-20,151		
...	...	...	...	38,888	16,079	54,912	170,688	...	...	...	45,157	14,967	60,144	280,782
...	...	...	...	50,896	21,166	71,582	191,915	...	...	...	52,709	17,043	69,752	23,167
...	...	...	...	-11,563	-5,107	-16,670	-21,277	...	...	...	-7,552	-3,086	-9,606	-30,882

DIX I—contd.

No. 2.

each important mining field during the year 1931.

Open workings.						Surface.			
Overmen and Sirdars. — Foremen and Mates.	Miners.	Loaders.	Skilled Labour.	Un-skilled Labour.	Females.	Clerical and Supervising Staff.	Skilled Labour.	Un-skilled Labour.	Females.
43	43	44	47	45	44	54	52	51	50
48	43	47	44	45	43	53	51	50	49
44	44	44	45	48	37	49	46	46	45
37	40	40	41	37	37	50	44	44	44
...	...	...	...	...	...	43	45	44	24
48	48	48	...	...	...	36	36	30	...
...	48	...	60	...	60	54	52	52	51
43	42	...	46	43	37	51	50	51	51
46	45	...	43	42	45	45	44	45	44
48	44	...	51	48	45	48	45	46	45
47	45	...	47	47	46	46	45	47	46
48	48	...	46	49	46	48	48	48	48
48	...	...	...	48	...	53	53	50	...
47	43	...	43	43	45	47	46	48	...
54	54	...	...	...	...	54	46	46	54
43	43	...	42	42	44	45	44	44	43
52	43	...	52	52	...	48	...	48	...
44	40	...	42	45	43	45	41	40	41

Table

Analysis of figures relating to

Province.	Coalfield.	Coal.					
		Opening stock.	Raisings.	Total.	Despatches.	Colliery consumption.	Coal delivered for coking.
		Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Assam	Makum . . .	...	238,965	238,965	219,409	16,121	3,485
	Nasira . . .	1,388	34,963	36,351	33,703	1,847	...
	Sibsagar . . .	...	350	350	26	...	...
Baluchistan	Baluchistan . . .	1,325	13,472	14,797	13,906	...	...
Bengal (and part of Bihar and Orissa).	Raniganj . . .	238,812	6,530,713	6,814,525	5,918,279	501,418	60,483
Bihar and Oris	Jharia . . .	377,254	9,755,037	10,332,291	7,797,318	534,705	1,026,772
	Bokaro . . .	1,338	1,656,597	1,657,935	1,589,288	45,118	15,915
	Karanpura . . .	1,404	461,678	463,082	438,050	18,216	17
	Giridih . . .	21,646	713,133	734,779	640,995	26,960	...
	Jainty . . .	512	50,178	50,690	40,302	8,965	...
	Daltonganj . . .	...	411	411	...	411	...
	Hutar . . .	101	...	101	...	...	...
	Hingir-Rampur . . .	704	31,220	31,924	32,846	8,937	...
Central Provinces.	Fench Valley . . .	8,788	750,015	758,758	711,975	36,355	...
	Chanda . . .	9,350	223,025	232,275	206,093	22,091	...
Punjab	Salt Range . . .	2,916	54,840	57,756	54,639	1,385	...
	Total 1931 . . .	910,408	20,514,597	21,425,005	17,631,474	1,222,569	1,106,622

DIX I—contd.

No. 3.

output of Coal and Coke, 1

Coal despatched to coke factories.	Closing stocks.	Coke.									
		Opening stocks.		Coke made.		Despatches.		Colliery consumption.		Closing stocks.	
		Hard.	Soft.	Hard.	Soft.	Hard.	Soft.	Hard.	Soft.	Hard.	Soft.
Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
...	...	...	...	685	...	661	...	24	...	...	...
...	801	...	...	...	...	...	...	...	...	...	...
...	324	...	...	...	...	...	...	...	...	...	...
...	891	...	...	...	...	...	...	...	...	...	...
...	339,350	24	680	...	43,639	22	41,966	2	471	...	1,852
1,526,957	978,496	4,817	7,232	49,499	676,976	45,845	677,040	275	934	8,196	6,234
10,519	7,644	12	...	5,300	3,544	4,968	3,544	61	...	233	...
...	6,790	...	...	...	17	...	17	...	...	...	...
34,553	66,824	...	...	...	...	...	...	...	...	...	...
...	1,523	...	...	...	...	...	...	...	...	...	...
...	101	...	...	...	...	...	...	...	...	...	...
...	591	...	...	...	...	...	...	...	...	...	...
...	10,423	...	...	...	...	...	...	...	...	...	...
...	4,091	...	...	...	...	...	...	...	...	...	...
...	1,482	...	...	...	...	...	...	...	...	...	...
1,572,028	1,414,340	4,858	7,912	55,484	724,176	51,496	722,597	362	1,405	8,479	8,086

APPENDIX I—contd.

Table No. 4.

Number of mines opened, closed and inspected, during the year 1931.

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.	
			Worked under mechanical power.	Not worked by mechanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspections.
COAL.								
Assam .	Lakhimpur—Makum Coalfield .	7	6	1	...	1	7	20
	Naga Hills—Nazira „ .	1	...	1	...	...	1	4
	Sibsagar	1	...	1	1	...	...	...
Baluchistan .	Baluchistan Coalfield . . .	18	...	18	2	1	9	18
Bengal (and part of Bihar and Orissa).	Raniganj Coalfield	206	162	44	11	22	201	792
Bihar and Orissa.	Jharia Coalfield	247	181	66	19	30	247	1,027
	Bokaro „	5	5	...	...	...	5	30
	Karanpura Coalfield	5	3	2	2	1	3	11
	Giridih Coalfield	9	4	5	1	3	6	20
	Jainty „	5	1	4	1	...	5	6
	Daltonganj Coalfield	1	1	...	...	1	...	...
	Hingir-Rampur Coalfield	1	1	...	...	...	1	2
Central Provinces.	Pench Valley Coalfield	18	12	6	4	3	15	33
	Ohanda Coalfield	6	6	...	...	...	5	8

APPENDIX I—*contd.*Table No. 4—*contd.*Number of mines opened, closed and inspected, during the year 1931—*contd.*

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.	
			Worked under mechanical power.	Not worked by mechanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspections.
COAL—<i>contd.</i>								
Punjab	Salt Range Coalfield	15	...	15	4	5	9	12
	Grand Total (Coal) for 1931	540	383	188	45	67	514	1,983
	Grand Total of preceding year.	549	381	168	68	61	515	1,709
	Difference	-9	+1	-10	-18	+6	-1	+274
IRON ORE.								
Bihar and Orissa	Singhbhum	5	2	3	1	3	4	4
Burma	...	5	...	5	...	4	...	...
	Grand Total (Iron Ore) for 1931	10	2	8	1	7	4	4
	Grand Total of preceding year.	10	...	10	...	1	6	14
	Difference	...	+2	-2	+1	+6	-2	-10
MANGANESE ORE.								
Bihar and Orissa	Singhbhum	10	...	10	3	6	7	7
Bombay	...	6	1	5	...	1	...	...

APPENDIX I—*contd.*Table No. 4—*contd.*Number of mines opened, closed and inspected, during the year 1931—*contd.*

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.	
			Worked under mechanical power.	Not worked by mechanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspections.
MANGANESE ORE—<i>contd.</i>								
Central Provinces.	...	35	6	29	3	26	10	11
Madras	...	5	1	4	...	5	2	2
	Grand Total (Manganese Ore) for 1931.	56	8	46	6	38	19	20
	Grand Total of preceding year.	82	9	78	8	43	40	53
	Difference	-26	-1	-25	-2	-5	-21	-33
LEAD ORE.								
Burma	Shan States	2	2	...	...	...	2	14
	Total of preceding year	5	3	2	2	3	5	16
	Difference	-3	-1	-2	-2	-3	-3	-2
GOLD.								
Bihar and Orissa	...	1	...	1	...	1	1	1
	Total of preceding year	2	...	2	1	...	...	...
	Difference	-1	...	-1	-1	+1	+1	+1

APPENDIX I—*contd.*Table No. 4—*contd.*Number of mines opened, closed and inspected, during the year 1931—*contd.*

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.	
			Worked under mechanical power.	Not worked by mechanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspections.
TIN AND WOLFRAM ORE.								
Burma	...	136	5	131	27	22	27	31
	Grand Total of preceding year.	176	6	173	36	65	63	71
	Difference	-42	-1	-41	-9	-43	-36	-40
CHROMITE ORE.								
Baluchistan	Zhob	31	...	31	...	31	8	
Bihar and Orissa	Singhbhum	8	...	8	2	2	3	3
	Grand Total (Chromite Ore) for 1931.	39	...	39	2	33	11	11
	Grand Total of preceding year.	36	...	36	2	2	3	3
	Difference	+3	...	+3	...	+31	+8	+8
COPPER ORE.								
Bihar and Orissa	Manbhum	1	...	1	...	...	1	2
	Singhbhum	1	1	...	...	...	1	1
Burma	Henzada	1	...	1	...	1	...	...
	Grand Total (Copper Ore) for 1931.	3	1	2	...	1	2	3
	Grand Total of preceding year.	2	1	1	...	...	2	7
	Difference	+1	...	+1	...	+1	...	-4

APPENDIX I—*contd.*Table No. 4—*contd.*Number of mines opened, closed and inspected, during the year 1931—*contd.*

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.	
			Worked under mechanical power.	Not worked by mechanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspections.
			MAGNESITE.					
Madras	Salem	2	..	2	..	1	1	2
	Total of preceding year	5	..	5	..	3	1	2
	Difference	-3	..	-3	..	-2	..	..
			STEATITE.					
Bihar and Orissa.	Singhbhum	3	..	3	..	1	3	3
Central Provinces.	Jubbulpore	5	..	5	..	3	2	2
Madras	Nellore	2	..	2	..	..	2	2
Rajputana	Ajmer-Merwara	1	..	1	1	1	..	..
United Provinces.	Hamirpur	8	..	8	4	8	25	29
	Grand Total (Steatite) for 1931	19	..	19	5	13	32	36
	Grand Total of preceding year	17	..	17	6	8	5	5
	Difference	+2	..	+2	-1	+5	+27	+31

APPENDIX I—contd.

Table No. 4—contd.

Number of mines opened, closed and inspected, during the year 1931—contd.

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.	
			Worked under mechanical power.	Not worked by mechanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspections.
SLATE.								
Bihar and Orissa.	...	7	...	7	4	1	6	10
Punjab	...	12	...	12	1	1	3	6
	Grand Total (Slate) for 1931	19	...	19	5	2	12	16
	Grand Total of preceding year	19	...	19	5	5	15	20
	Difference	...	...	...	...	-3	-3	-4
LIMESTONE.								
Bihar and Orissa.	...	10	2	8	1	...	7	8
Bombay	Sukkur	1	...	1	...	1	1	1
Barma	...	7	...	7	1	2	2	3
Central Provinces.	...	16	1	15	2	4	13	13
Punjab	...	6	1	5	...	...	5	6
	Grand Total (Limestone) for 1931.	40	4	36	4	7	28	31
	Grand Total of preceding year.	40	4	36	5	9	28	38
	Difference	...	...	...	...	-1	-2	-7

APPENDIX I—contd.

Table No. 4—contd.

Number of mines opened, closed and inspected, during the year 1931—contd.

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.	
			Worked under mechanical power.	Not worked by mechanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspections.
STONE (CHIEFLY IGNEOUS ROCK).								
Bengal	Birbhum	4	1	3	...	...	...	...
Bihar and Orissa.	...	55	1	54	5	14	16	17
Bombay	...	22	2	20	3	7	15	19
Burma	...	19	...	19	3	3	21	27
Central Provinces.	...	6	...	6	1	1	10	10
Madras	...	13	...	13	12	5	64	64
Punjab	...	13	...	13	..	...	14	15
United Provinces.	...	17	...	17	4	3	40	56
	Grand Total (Stone) for 1931	149	4	145	28	33	180	208
	Grand Total of preceding year	144	1	143	23	25	128	161
	Difference	+5	+3	+2	+5	+8	+57	+47
LATERITE.								
Barma	...	2	...	2	...	1	1	1
Central Provinces.	Jubbulpore	3	...	3	1	...	...	...
	Grand Total (Laterite) for 1931	5	...	5	1	1	1	1
	Grand Total of preceding year	4	...	4	...	...	2	2
	Difference	+1	...	+1	+1	+1	-1	-1

APPENDIX I—*contd.*Table No. 4—*contd.*Number of mines opened, closed and inspected, during the year 1931—*contd.*

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES				INSPECTIONS.	
			Worked under mechanical power.	Not worked by mechanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspections.
			SANDSTONE.					
Bihar and Orissa.	...	2	...	2	...	...	2	3
Burma	...	1	...	1	...	...	...	...
United Provinces.	...	4	...	4	...	...	8	8
	Grand Total (Sandstone) for 1931.	7	...	7	...	...	10	11
	Grand Total of preceding year.	12	...	12	2	2	4	4
	Difference	-5	...	-5	-2	-2	+6	+7
			MURUM.					
Bombay	...	1	...	1	...	1	...	...
	Total of preceding year	2	...	2	...	1	...	...
	Difference	-1	...	-1	...	...	...	...
			FIRE CLAY.					
Bengal	Burdwan	2	...	2	1	...	...	...
Bihar and Orissa.	...	3	...	3	1	...	1	1
Central Provinces.	...	4	1	3	...	2	2	2
	Grand Total (Fire Clay) for 1931	9	1	8	2	2	3	3
	Grand Total of preceding year.	11	2	9	...	3	5	5
	Difference	-2	-1	-1	+2	-1	-2	-2

APPENDIX I—contd.

Table No. 4—contd.

Number of mines opened, closed and inspected, during the year 1931—contd.

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.		
			Worked under mechanical power.	Not worked by mechanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspections.	
Bihar and Orissa.	...	6	...	CHINA CLAY.				6	7
Delhi	...	4	...	4	4	3	7	9	
Rajputana	...	1	...	1	...	...	1	1
	Grand Total (China clay) for 1931.	11	...	11	4	5	14	17	
	Grand Total of preceding year.	9	...	9	3	3	14	14	
	Difference	+2	...	+2	+1	+2	...	+3	
Assam	Lakhimpur	1	...	CLAY.				1	1
Beagal	Burdwan	2	1	1	1	1	...	...
Central Provinces.	Jubbulpore	1	...	1	...	...	...	...
	Grand Total (Clay) for 1931	4	1	3	2	1	1	1	
	Grand Total of preceding year	2	1	1	...	...	2	2
	Difference	+2	...	+2	+2	+1	-1	-1	
Central Provinces.	Chanda	2	...	OCHRE.			
United Provinces.	Banda	1	...	1	1	...	...	...
	Grand Total (Ochre) for 1931	3	...	3	1	...	...	...
	Grand Total of preceding year.	3	...	3	2	1	...	...
	Difference	...	...	...	-1	-1	...	...

APPENDIX I—*contd.*Table No. 4—*contd.*Number of mines opened, closed and inspected, during the year 1931—*contd.*

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.	
			Worked under mechanical power.	Not worked by mechanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspections.
Madras		4	...	4	3	...	1	1
	Total of preceding year	15	...	15	13	9	...	...
	Difference	-11	...	-11	-10	-9	+1	+1
Madras				APATITE.				
	Trichinopoly	1	...	1	...	...	1	...
	Grand Total of preceding year	2	...	2	...	1	1	1
	Difference	-1	...	-1	...	-1	...	...
Rajputana				ASBESTOS.				
	Ajmer-Merwara	4	...	4	4	4	...	...
	Total of preceding year	1	...	1	...	1	...	...
	Difference	+3	...	+3	+4	+3	...	...
Bihar and Orissa.	Singhbhum	1	...	1	...	...	1	1
	Ajmer-Merwara	1	...	1	1	1	...	...
Rajputana				KYANITE.				
	Grand Total (Kyanite) for 1931	2	...	2	1	1	1	1
	Total of preceding year	1	1	...	...	...	1	1
	Difference	+1	-1	+2	+1	+1	...	...

APPENDIX I—*contd.*Table No. 4—*concl'd.*Number of mines opened, closed and inspected, during the year 1931—*concl'd.*

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.	
			Worked under mechanical power.	Not worked by mechanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspections.
			BERYL.					
Bajputana	Ajmer-Marwara	1	...	1	1	...	...
	Total of preceding year	1	...	1	1	1	...	
	Difference	...	...	...	...	-1	...
			FELDSPAR.					
Bajputana.	Ajmer-Marwara	1	...	1	...	...	1
	Total of preceding year	1	...	1	1	...	...
	Difference	...	...	...	-1	...	+1
			COLUMBITE.					
Bihar and Orissa.	Monghyr	1	...	1	1	1	...	
	Total of preceding year	...	...	...	...	...	...
	Difference	+1	...	+1	+1	+1	...	
	Grand Total (Metaliferous Mines).	877	66	811	162	339	484	
	Grand Total of preceding year.	1,120	66	1,054	286	371	443	
	Difference	-243	...	-243	-124	-32	+41	
	Grand Total (All Minerals)	1,417	446	969	207	406	998	
	Grand Total of preceding year.	1,669	447	1,222	349	432	958	
	Difference	-252	+1	-253	-142	-26	+40	

APPENDIX I—*contd.*

Table No. 5.

The following table shows the fluctuations in the output of the principal minerals raised from mines classed under the Indian Mines Act. The other minerals raised are slate, magnesite, steatite, clay, fuller's earth, ochre, barytes, apatite, asbestos, stone, Kyanite, Gypsum, Feldspar and Columbite.

Year.	Coal.	Manga- nese ore.	Mica.	Lime- stone.	Salt.	Gold.	Copper ore.	Wolfram ore.	Iron ore.	Chro- mite ore.	Tin ore.	Lead ore.	Silver.
	Tons.	Tons.	Cwts.	Tons.	Tons.	Troyozs.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Troy ozs.
1922	18,168,988	892,332	30,069	140,507	187,157	8,338	30,704	943	240,363	19,695	1,030	172,018	4,306,133
1923	18,763,967	846,878	31,605	236,161	118,700	1,519	6,550	872	292,083	25,335	1,011	245,925	4,844,043
1924	20,256,034	668,331	40,529	513,333	159,918	3,646	38	739	430,805	27,850	1,627	310,288	5,287,900
1925	19,969,041	710,347	45,383	614,232	125,366	293	...	772½	529,376	21,330	2,307	331,854	4,631,569
1926	20,093,034	857,099	41,451	627,223	123,801	1,058	9,508	751	600,343	16,455	2,568	362,904	5,103,705
1927	21,108,976	878,521	43,061	1,132,235	145,311	2,395	5,010	530	1,069,381	17,066	2,656	450,777	6,004,586
1928	21,515,796	716,626	44,629	1,404,578	145,543	7	12,055	623	1,200,754	17,167	2,777	443,654	7,404,728
1929	22,308,174	750,906	49,437	1,318,647	148,496	30	76,831	1,061	1,436,385	21,054	3,384	464,561	7,280,517
1930	23,683,861	623,078	53,519	1,143,313	147,376	30	123,740	1,500	1,133,593	30,483	3,001	530,119	7,054,206
1931	20,514,597	347,373	46,177	882,226	134,916	..	153,636	969	690,176	14,938	2,552	397,679	900,400

Table No. 6.

The following table shows the amount of coal raised, the average number of persons working daily and the death-rates during the years 1922 to 1931 in respect of coal mines under the Indian Mines Act :—

Year.	Amount of coal raised.	Average number of persons work- ing daily below and above ground.	Number of deaths below and above ground.	Death-rates.	
				Per 1,000,000 tons raised.	Per 1,000 per- sons working daily below and above ground.
1922	Tons. 18,168,988	184,355	209	11.50	1.13
1923	18,763,967	182,601	382	17.69	1.82
1924	20,256,034	187,088	230	11.35	1.23
1925	19,969,041	173,140	186	9.81	1.07
1926	20,093,024	170,628	171	8.51	1.00
1927	21,108,976	165,218	181	8.57	1.10
1928	21,515,796	164,139	218	10.13	1.83
1929	22,308,174	165,658	194	8.70	1.17
1930	23,683,861	169,001	211	9.30	1.25
1931	20,514,597	158,267	185	9.02	1.17

APPENDIX I—contd.

Table No. 7.

Aggregate horse power and purpose for use of electric motors installed both on surface and underground at coal mines under the Indian Mines Act.

Coalfield.	Horse power on surface.					Horse power below ground.					Total horse power of motors installed.	
	Winding.	Ventilation.	Haulage.	Coal washing or screening.	Miscellaneous.	Total.	Haulage.	Pumping.	Portable machinery.	Miscellaneous.		Total.
Assam . . . . .	...	117	220	7	52	396	60	...	...	...	60	456
Bokaro	758	245	335	137	891	2,356	230	934	118	310	1,587	3,943
Central Provinces . . . . .	...	...	...	...	72	72	40	201	60	...	303	377
Giridih	45	370	...	130	492	977	771	2,775	116	...	3,664	4,641
Jharia	2,980	860	2,290	761	4,043	10,934	7,743	19,060	3,622	1,151	31,576	42,510
Karanpura	50	...	750	95	303	1,198	...	327	62	...	389	1,587
Punjab . . . . .	...	...	...	...	...	...	...	12	...	...	12	12
Raniganj	2,828	1,890	560	697	385	5,860	6,156	12,023	3,634	51	21,914	27,774
Total	6,661	2,982	4,145	1,827	6,178	21,793	15,000	35,332	7,657	1,516	59,505	81,208

Table No. 8.

Number of Mines under the Indian Mines Act, where electric power is used, and the aggregate horse power of electric motors installed.

Province.	Minerals worked.						Total horse power of motors installed.
	Coal.		Silver-Lead.		Sundry Minerals.		
	Number of mines.	Horse power.	Number of mines.	Horse power.	Number of mines.	Horse power.	
Assam	4	456	...	...	...	...	456
Bengal	51	24,167	...	...	1	50	24,217
Bihar and Orissa	65	56,238	...	...	4	2,431	58,719
Bombay . . . . .	...	...	...	...	2	263	263
Burma . . . . .	...	...	2	3,617	4	1,694	5,311
Central Provinces	3	375	...	...	3	327	702
Madras . . . . .	...	...	...	...	1	224	224
Punjab	1	12	...	...	1	787	799
Total	124	81,208	2	3,617	16	5,776	90,891

APPENDIX I—contd..

Table No. 9.

Number and type of coal-cutting machines at work in Coal Mines under the Indian Mines Act.

Name of machine.	British.	American.	Chain.	Bar.	Perussive.	Power.			Total number of machines.
						Electricity.		Compressed air.	
						A. C.	D. C.		
Anderson Boyes	1	...	1	...	...	1	...	...	1
Goodman . . . . .	...	82	82	...	...	54	28	...	82
Hardiux	2	...	...	...	2	...	...	2	2
Hardy	13	...	...	...	13	13	...	...	13
Mavor and Coulson	81	...	29	52	...	75	1	5	81
Sullivan . . . . .	...	16	16	...	...	16	...	...	16
Total	97	98	128	52	15	159	29	7	195
Jharia coalfield					85 machines	} Total number of square feet undercut 10,888,305.			
Raniganj coalfield					100 "				
Bokaro coalfield					4 "				
Karampura coalfield					4 "				
Central Provinces coalfield					2 "				

Table No. 10.

Number of mechanical ventilators in use at Coal Mines under the Indian Mines Act.

Assam.	Bengal.	Bihar and Orissa.	Central Provinces.	Total.
11	29	42	10	92

Table No. 11.

Number of safety lamps in use at Coal Mines under the Indian Mines Act.

Assam.	Baluchistan.	Bengal.	Bihar and Orissa.	Total.
2,274	12	11,071	9,714	23,071

1,164 were locked by screws, 7,491 by lead rivets and 14,416 by magnetic means.

APPENDIX I—*conold.*

Table No. 12.

Statement of explosives used during the year 1931 at mines under the Indian Mines Act.

Name of explosives.	Quantity of explosives used, in lb., in :—								Total.
	Coal mines.	Mica mines.	Manga- nese mines.	Lead ore mines.	Tin and Wolfram ore mines.	Lime- stone mines.	Stone mines.	Other mines.	
Dynamite	170,796	64,853	7,880	...	1,380	778	15,618	25,680	287,195
Gelignite	62,297	48,048	55,497	108,856	1,999	11,941	14,647	244,051	542,338
Monobel	89,283	...	...	...	...	...	...	...	89,283
Stonobel	95,011	...	...	...	...	...	...	...	95,011
Rockite	3,099	...	...	...	...	...	...	...	3,099
Bobbinite	825	...	...	...	...	...	...	...	825
Franoda	105	...	...	...	...	...	...	...	105
Gunpowder	2,496,777	1,226	49,249	...	...	173,740	211,750	108,917	3,096,059
Number of detonators used.	1,128,652	717,193	384,262	236,069	46,303	30,223	119,448	347,687	3,019,857

APPENDIX II.
ACCIDENTS IN MINES.

Table No. 1.
Fatal Accidents during the year 1931.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES.						
(a) Falls of roof—(65 deaths).						
1	6th January 8 A.M.	Makerwal mine, Trag P. O., Punjab.	Lala Ishar Dass and C. B. Bevan- Petman.	Sher Khan, son of Mohd. Khan, (m.), 25, <i>Coal-cutter.</i>	Coal	A miner was working at the face of a gallery when a piece of stone, 1' 6" x 1' 0" x 10", fell from a height of 3 feet 7 inches, and struck him. He sustained injuries which proved fatal. Inspection and inquiry made.
2	6th January, 9 A.M.	Namdang mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ld.	Mirwanza Pathan, (m.), 30, <i>Labourer.</i>	Coal	Whilst a number of persons were clearing roads preparatory to starting an 'opening' or chamber a large mass of coal and clay, 15' x 15' x 6' thick, fell from concealed 'slips' in the roof. One of the miners was buried and suffocated. Inspection and inquiry made.
3	7th January, 11 P.M.	Wagon South mine, Tavoy P. O., Burma.	Consolidated Tin Mines of Burma Ld.	Tam Yin, (m.), 36, <i>Tributor.</i>	Tin and wolfram.	Deceased removed a fence and entered a disused adit. Whilst engaged in getting ore he undermined the side of the adit and brought about a fall of roof which killed him. Inspection and inquiry made.
4	10th January, 6 A.M.	Kalithan Gurgaon mine, Bhojudih P. O., Bihar and Orissa.	K. B. Seal & Sons.	Gobinda Roy, (m.), 35, <i>Coal-cutter.</i>	Coal	In an underground working place a mass of roof stone, 15' x 8' x 9', fell from a concealed 'slip' at a height of 9 feet. Deceased was killed instantly. Inspection and inquiry made.
5	28th January, 5-30 A.M.	Kendwadih mine, Bhaga P. O., Bihar and Orissa.	Hurriladih Co., Ld.	Bikhoo Mahato, (m.), 35, <i>Coal-cutter.</i>	Coal	Whilst a pillar of coal in a seam 7 feet thick was being extracted a slab of stone, 30' x 4' x 9', fell from the roof and struck two miners who were loading coal near the face. One of them was killed and the other seriously injured. Inspection and inquiry made.

6	29th January, 5-45 P. M.	Lower Joyrampur mine, Jharia P. O., Bihar and Orissa	Ghela Panchan & Co.	Gulu Manjhi, (m.), 40, Coal-carrier.	Coal	Whilst deceased was working in a depillaring section of a mine a small pillar of coal under extraction collapsed. He was struck by the falling coal and killed instantly. Inspection and inquiry made.
7	20th January, 11 P. M.	Lodna (Nos. 4 & 5 Pits) mine, Jharia P. O., Bihar and Orissa.	Lodna Colliery Co. (1920), Ltd.	Munda Gowala, (m.), 35, Coal-cutter.	Coal	Deceased was lying down in a gallery 14 feet high, when a small piece of coal fell on his chest. He sustained internal injuries to which he succumbed almost immediately. Inspection and inquiry made.
8	4th February, 8-30 P. M.	Dhobidih mine, Giridih P. O., Bihar and Orissa.	Bengal Giridih Coal Co., Ltd.	Jiten Gope, (m.), 25, Coal-cutter.	Coal	A miner was killed by a fall of roof stone, 6' x 3' x 1-6", in a goafed area near his working place. Inspection and inquiry made.
9	16th February, 10 A. M.	Thamedanng (Htantalone) mine, Tavoy P. O., Burma.	U. Ba Oh.	Ooh Pong, (m.), 36, Tributor.	Wolfram	A tributor entered an old adit and was buried by a mass of earth, 10' x 5' x 4', which fell from the roof — a height of 5 feet. He was suffocated. Inspection and inquiry made.
10	19th February, 8 P. M.	Burrnagarh mine, Kusunda P. O., Bihar and Orissa.	Ransegunge Coal Association, Ltd.	Bhatni Bajwarin, (f.), 25, Coal-carrier.	Coal	A woman was at work near the face of a gallery, when a mass of coal, 30' x 5' x 2' fell from concealed 'slips' at a height of 7 feet. She was killed on the spot. Inspection and inquiry made.
11	27th February, 6-45 A. M.	Sendra mine, Bansjora P. O., Bihar and Orissa.	Sendra Coal Co., Ltd.	Karimon Meah, (m.), 40, Coal-cutter. Imamon Meah, (m.), 24, Loader.	Coal	The deceased were robbing coal from a pillar on the side of a haulage road when a mass of stone, 19' x 9' x 5' thick, fell from between two 'slips' at a height of 7 feet. They were killed instantly and another miner was seriously injured. Inspection and inquiry made.
12	1st March, 12-10 A. M.	Bararoo mine, Jealgora P. O., Bihar and Orissa.	East Indian Coal Co., Ltd.	Rangu Chamar, (m.), 32, Miners' sirdar. Daulat Joshawara, (m.), 35, Coal-cutter.	Coal	The deceased entered a fenced gallery 25 feet high in which there was roof coal which had not been dressed down after blasting. A mass of roof coal, weighing about 10 cwt., fell upon them and killed them instantly. Inspection and inquiry made.
13	11th March, 7-30 P. M.	Standard (Jharia Bhas Section) mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ltd.	Basudeb Dhanuk, (m.), 30, Coal-carrier.	Coal	Deceased was loading coal under some roof coal which had recently been blasted, when a piece of coal, 3' x 1' 6" x 1', fell on him from a height of 18 feet. He was killed instantly. Inspection and inquiry made.
14	16th March, 2 P. M.	Hermyingyi mine, Hermyingyi P. O., Burma.	Consolidated Tin Mines of Burma, Ltd.	Lee Shut, (m.), 25, Tributor.	Tin	Without permission two tributors entered a disused adit and while at work there one of them was partially buried by a mass of earth, weighing about 3 tons, which fell from the roof. He was fatally injured. Inspection and inquiry made.

APPENDIX II—contd.
Fatal Accidents during the year 1931—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—contd.						
<i>(a) Falls of roof—(65 deaths)—contd.</i>						
15	18th March, 10 A. M.	Kestore mine, Kansuda P. O., Bihar and Orissa.	Raneegungo Coal Association, Ltd.	Chandan Bajwar, (m.), 45, Coal-cutter.	Coal	Whilst a miner was at work in a gallery, 15' wide and 8'-6" high, a mass of roof stone, 18' x 9' x 2' 6" thick, fell from between concealed 'slips' and displaced three timber bars. The miner was killed on the spot. Inspection and inquiry made.
16	22nd March, 4 P. M.	Aldih mine, Sitarampur P. O., Bengal.	Aldih Coal Co., Ltd.	Laru Turi, (m.), 52, Coal-cutter.	Coal	Deceased was injured by a fall of roof on a haulage road. He died from blood poisoning nine days later. Inspection and inquiry made.
17	28rd March, 10-30 P. M.	Bawdwin mine, Namta P. O., Burma.	Burma Corporation Ltd.	Tong Pin Tong, (m.), 22, Miner.	Silver- lead- zinc.	Three miners were at work at the face of a level, when a mass of rock fell from a concealed 'slip' in the face and struck one of the miners, fatally injuring him. Inspection and inquiry made.
18	26th March, 6-15 A. M.	Sorampar mine, Giridih P. O., Bihar and Orissa.	East Indian Rail- way.	Budin Mejhian, (f.), 15, Coal-carrier.	Coal	Whilst ten persons were working in a depillaring area, the weight of the unsupported roof in the goaf caused a mass of roof coal, 32' x 22' x 1'-6", to fall from a height of 12 feet. A woman was killed instantly, three workmen were seriously injured and five others received minor injuries. Inspection and inquiry made.
19	10th April, 7-15 A. M.	Mosaboni mine, Mosaboni P. O., Bihar and Orissa.	Indian Copper Cor- poration Ltd.	Lal Singh Girthi, (m.), 32, Labourer.	Copper	Whilst passing through a stope where blasting had been done and roof dressing was in progress, deceased was struck and killed by a mass of stone, 7' x 5' x 9", which fell unexpectedly from a height of 8 feet. Inspection and inquiry made.
20	24th April, 4-45 P. M.	Singaran mine, Torosi P. O., Bengal.	Singaran Coal Syndicate, Ltd.	Nilmoni Mejhian, (f.), 50, Labourer.	Coal	Whilst a woman was loading coal underground she was fatally injured by a small piece of coal which fell from the roof at a height of 22 feet. Inspection and inquiry made.

21	24th April, 5 P.M.	Ashakuty mine, Katrasgarh P. O., Bihar and Orissa.	Chandanmull Indrakumar.	Muchiram Rawani Kabar, (m.), 27, Coal-carrier.	Coal	Whilst coal blasted from the roof was being loaded a mass of coal, 3' x 2'-6" x 1'-8", fell from a 'slip' in the roof at a height of about 12 feet. Deceased was struck by the coal, and a woman was seriously injured. Inspection and inquiry made.
22	29th April, 1-30 P.M.	Hantodih mine, Mohuda P. O., Bihar and Orissa.	North West Coal Co., Ltd.	Dantar Bilaspuri, (m.), 45, Coal-cutter. Tikyatin Bilaspurin, (f.), 28, Mutki Bilaspurin, (f.), 23, Coal-carriers.	Coal	The deceased were employed in repairing and making secure an abandoned road which had been reopened. They were walking along the road when a mass of stone, 6' x 9' x 9", fell on them from a height of 7½ feet. Inspection and inquiry made.
23	3rd May, 1-30 A.M.	Kirkond mine, Kusunda P. O., Bihar and Orissa.	Shethia's Pure Kirkond Colliery Co.	Dewal Mahato, (m.), 30, Coal-cutter.	Coal	Deceased left his appointed working place and went through a fence to cut coal from the sides of a narrow main gallery, 7 feet high when a wedge shaped mass of roof stone, 8' x 3' x 3", fell on him from between two 'slips' in the roof. He was killed instantly. Inspection and inquiry made.
24	8th May, 12-45 P.M.	Newton Chikli mine, Parasia P. O., Central Provinces.	Newton Chikli Collieries, Ltd.	Parsoo, (m.), 30, Coal-cutter.	Coal	A miner went through a fence to rob coal from a small pillar which had been left in the goaf. A mass of roof stone fell and he sustained injuries which proved fatal. Inspection and inquiry made.
25	8th May, 2-30 P.M.	Tikak mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ltd.	Norpat Kumal, (m.), 29, Loader.	Coal	Shortly after shots had been fired in an 'opening' or chamber, 35' x 35' x 12' high, a mass of coal, 14' x 12' x 12", fell from the roof and buried three persons. One was killed instantly and the other two were seriously injured. Inspection and inquiry made.
26	10th May, about 6 A.M.	Amlabad mine, Jalgora P. O., Bihar and Orissa.	Eastern Coal Co., Ltd.	Majhli Mejhian, (f.), 38, Coal-loader.	Coal	Whilst filling a basket with coal in an underground gallery a female loader was killed instantly when a piece of coal about 1 cwt. in weight fell upon her without warning from a height of 10 feet. Inspection and inquiry made.
27	12th May, 1 P.M.	Burragarh mine, Kusunda P. O., Bihar and Orissa.	Ranagunge Coal Association, Ltd.	Doodutt Kneri, (m.), 30, Coal-cutter.	Coal	Whilst engaged in digging a sump in the floor of a gallery, 12' wide and 6' high, a minor was fatally injured by a mass of stone, 12' x 8' x 1'-8", which fell from a concealed 'slip' in the roof. Inspection and inquiry made.
28	16th May, 7-15 A.M.	Standard (Benahir section) mine, Jharra P. O., Bihar and Orissa.	Standard Coal Co., Ltd.	Kulada Korin, (f.), 38, Coal-carrier.	Coal	A woman was loading coal in a gallery when a piece of roof stone, 3' x 2'-7" x 3", fell on her from a height of 11 feet, killing her instantly. Inspection and inquiry made.

APPENDIX II—*contd.*

Fatal Accidents during the year 1931—*contd.*

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—<i>contd.</i>						
(a) Falls of roof (65 deaths)—<i>contd.</i>						
29	21st May, 12-45 P.M.	Sodepur (Nos. 9 and 10 pits) mine, Sitarampur P. O., Bengal.	Bengal Coal Co., Ltd.	Budhui Kole, (f.), 25, Coal-carrier.	Coal	Whilst walking along a travelling road deceased was fatally injured by a mass of roof coal, 9' x 3' x 1' thick, which fell without warning from a height of 15 feet. Inspection and inquiry made.
30	26th May, 11-30 A.M.	Bawdwin mine, Nantua P. O., Burma.	Burma Corporation, Ltd.	Oha Yin Fu, (m.), 33, Miner.	Silver-lead-zinc.	Whilst at work in a slope a lump of ore fell upon him and fractured his leg. He died in hospital from cerebral malaria six months later.
31	18th June, 11-15 A.M.	Mosaboni mine, Mosaboni P. O., Bihar and Orissa.	Indian Copper Corporation, Ltd.	Valoor Ramswamy, (m.), 35, Driller. Chellan, (m.), 38, Timber mistry.	Copper	A slab of rock, 5 feet in diameter and 12 inches thick, fell from the roof in a rise 6 feet high and 12 feet wide. A propping mistry and a driller were struck by the rock and killed instantly. Inspection and inquiry made.
32	20th June, 11 A.M.	Sirka mine, Argada P. O., Bihar and Orissa.	South Karanpura Coal Co., Ltd.	Praendi Bilaspuri, (m.), 25, Coal-cutter.	Coal	Deceased was cutting floor coal in a gallery, when a mass of coal, 9' x 2'-8" x 9", fell on him from a concealed 'slip' at a height of 9 feet. He sustained injuries to which he succumbed two hours later. Inspection and inquiry made.
33	10th July, 6-15 P.M.	Ekra Khas mine, Bansjora P. O., Bihar and Orissa.	Maharajah S. C. Nundy.	Bachoha Chamar, (m.), 35, Coal-cutter.	Coal	In a place where old pillars of coal were being mined by open quarrying, deceased passed through a fence and was killed instantly by a fall of roof coal, 22' x 4' x 4', Inspection and inquiry made.
34	22nd July, 1 A.M.	Haripur mine, Chora P. O., Bengal.	B. N. Mondal	Dukhi Mejhian, (f.), 30; Khuki Mejhian, (f.), 19, Loaders.	Coal	Whilst a tub standing on a tramline was being loaded with coal, a mass of roof coal, 6' x 3' x 2', fell without warning from a height of 25 feet. Two of the three loaders present were fatally injured. Inspection and inquiry made.

35	29th July. 9-30 A. M.	Lodna mine, Jharia P. O., Bihar and Orissa.	Lodna Colliery Co. (1920), Ltd.	Sadir Ali, (m.), 48, <i>Coal-cutter.</i>	Coal	Three miners were setting a ladder against the side of a pillar in a depillaring area when a mass of roof-coal, 7' x 2' x 1'-6", in an adjoining gallery fell from a height of 27 feet. One of the men was struck by the falling coal and killed instantly. Inspection and inquiry made.
36	4th August, 5-30 P. M.	Upper Ghorawari mine, Junnordeo P. O., Central Provinces.	Lala Buddhoolal	Debi Kole, (m.), 30, <i>Coal-cutter.</i>	Coal	A minor returned to his working place after blasting operations had taken place and before the shot-firer had made his inspection. While he was dressing the roof a piece of roof coal, 1'-6" x 7" x 5", fell from a height of 5'-6" and struck him on the head. He sustained injuries which later proved fatal. Inspection and inquiry made.
37	29th August, 8 P. M.	Namdang mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ltd.	Bhikoo Passi, (m.), 37, <i>Sirdar.</i>	Coal	Whilst working in an 'opening' or chamber a sirdar was killed by a mass of coal, 3' x 2'-6" x 1', which fell unexpectedly from a height of 10 feet. Inspection and inquiry made.
38	30th August, 5 A. M.	Akhalpur mine, Charanpur P. O., Bengal.	Hazriladhi Coal Co., Ltd.	Sufal Manjhi, (m.), 30, <i>Coal-cutter.</i>	Coal	A minor entered a gallery, which had been fenced off as the roof was insecure, and was robbing coal from the side of the gallery when a mass of stone and coal, 40' x 8'-6" x 3', fell from the roof—a height of 9 feet. He was killed instantly. Inspection and inquiry made.
39	1st September, 4-30 P. M.	Bhagaband mine, Jharia P. O., Bihar and Orissa.	Borra Coal Co., Ltd.	Bamahai Bhuiya, (m.), 34, <i>Coal-cutter.</i>	Coal	Whilst carrying coal, deceased was crushed beneath a mass of stone, 23' x 14' x 2', which fell from the roof at the junction of four galleries at a height of 7 feet. He was killed instantly. Inspection and inquiry made.
40	3rd September, 1 A. M.	Kosoonda—Nyadee mine, Kusunda P. O., Bihar and Orissa.	Kosoonda and Nyadee Collieries Co.	Dhanga Manjhi, (m.), 30, <i>Coal-cutter.</i>	Coal	Deceased left his appointed working place and went through a fence to rob coal from the side of a pillar. A mass of coal 12' x 1'-8" x 1', fell on him from a height of 10 feet, killing him instantly. Inspection and inquiry made.
41	7th September, 11-30 A. M.	Central Kurkend mine, Kusunda P. O., Bihar and Orissa	Central Kurkend Coal Co., Ltd.	Bisahin Bilaspurin, (f.), 28, <i>Loader.</i>	Coal	Whilst preparations were being made to set a prop in a depillaring area, a mass of roof-coal fell from a height of 10 feet. A woman loader, entering the working place unnoticed, was struck by a portion of the coal and killed instantly. Inspection and inquiry made.
42	17th September, 1-30 P. M.	Standard (Jharia Khas) mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ltd.	Sanker Turi, (m.), 48, <i>Coal-cutter.</i>	Coal	Whilst placing a ladder in a gallery after blasting, a miner dislodged a lump of roof coal weighing about 3 lb. The coal fell on him from a height of 26 feet and inflicted injuries to the head so severe that he died after thirty-two hours. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1981—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—contd.						
(a) Falls of roof—(65 deaths)—concltd.						
43	0th October, 10-15 P. M.	Katras mine, Katragarh P. O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Panchli Bhuiyan, (f), 45, Coal-carrier. Thakuri Bhuiya, (m), 45, Coal-cutter.	Coal	Two workmen were sitting down in a gallery, when a mass of roof coal, 15' x 8' x 1'-0", fell on them from concealed 'slips' at a height of 8 feet. The woman was killed on the spot, and the man was severely injured and subsequently died. Inspection and inquiry made.
44	18th October, 12 noon.	Balihari mine, Kusunda P. O., Bihar and Orissa.	Balihari Colliery Co.	Jethu Deswali, (m.), 25, Coal-cutter.	Coal	In a depillaring area a miner was cutting floor coal when a mass of roof coal, 10' x 6' x 2', fell without warning from a height of 7 feet, killing him instantly. Inspection and inquiry made.
45	26th October, 1 P. M.	Kustore mine, Kusunda P. O., Bihar and Orissa.	Bansagunge Coal Association, Ld.	Bajoo Mahato, (m.), 24, Coal-carrier.	Coal	Contrary to verbal orders two men entered a working place which had been declared to be unsafe but had not been fenced to prevent access. Whilst loading coal in the place a mass of coal fell from the roof—a height of 18 feet. One of the men was struck by the falling coal and killed instantly whilst the other was seriously injured. Inspection and inquiry made.
46	27th October, 1 30 P. M.	Footkeo mine, Kusunda P. O., Bihar and Orissa.	Eastern Coal Co., Ld.	Gofur Meah, (m.) 40, Coal-cutter.	Coal	Deceased was standing on a ladder levering down some roof coal after blasting when he lost his balance and fell a distance of 10 feet on to some loose coal. He sustained injuries to which he succumbed on the following day. Inspection and inquiry made.
47	18th November, 9-30 A. M.	Dhori mine, Bokaro P. O., Bihar and Orissa.	Bokaro and Ram- gur, Ld.	Dhanea Kewar, (m.), 27, Coal-cutter.	Coal	Whilst a miner was standing on a barrel levering down roof coal, his pick slipped and overbalancing he upset the barrel and fell to the floor. Before he could recover himself he was struck and killed instantly by a mass of roof coal, weighing about 1 ton, which fell from a height of 7 feet. Inspection and inquiry made.

48	19th November, 4 P.M.	Jarandih mine, Bokaro P. O., Bihar and Orissa.	Bombay, Baroda and Central India Rail- way and M. and S. M. Railway.	Girdhari Turi, (m.), 24, Coal-cutter.	Coal	Whilst a miner was illegally loading fallen coal in a fenced off gallery he was killed by a mass of roof-coal, weighing about 2 tons, which fell from a height of 30 feet. Inspection and inquiry made.
49	24th November, 4 P.M.	Sodepur (9 and 10 pits) mine, Sitarampur P. O. Bengal.	Bengal Coal Co., Ld.	Jhari Kole, (m.), 42; Shamlal Kole, (m.), 80; Chharkao Kole, (m.), 35; Bhagirath Kole, (m.), 28; Karoo Kole, (m.), 40; Coal-cutters.	Coal	A gang of eleven miners was employed in extracting the fourth and last quarter of a pillar of coal in a seam 18 feet thick when the pillar collapsed and roof stone, 3 feet thick, fell without warning over an area 30 feet square. Five of the men were killed and one was seriously injured. Inspection and inquiry made.
50	25th November, 8-30 P.M.	Lodna Mine, Jharia P. O., Bihar and Orissa.	Lodna Colliery Co. (1920), Ld.	Changroo Meah, (m.), 57, Labourer.	Coal	Whilst two timber coolies were sounding the roof of a depillaring area in a seam 26 feet thick, a piece of stone, 3' x 2' x 1', fell from a point in the roof 8 feet from the point they were testing. One of them was struck and fatally injured by the falling stone. Inspection and inquiry made.
51	1st December, 4-30 A.M.	Mudidih mine, Sijua P. O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Surjoo Pasi, (m.), 35, Coal-cutter.	Coal	Deceased entered an underground working place in which the roof was unsafe, and was struck and fatally injured by a piece of stone which fell from the roof 21 feet above. He had been told not to enter the place but no fence had been erected to prevent access. Inspection and inquiry made.
52	5th December, 11 A.M.	Newton Chickli mine, Parsia P. O., Central Provinces.	Newton Chickli Collieries, Ld.	Mansook, (m.), 23, Timberman.	Coal	Whilst the last part of a pillar of coal was being extracted the roof broke down in the adjacent goaf, and the fall extended over the working place. A timberman was killed and a miner severely injured. Inspection and inquiry made.
53	15th December, 2 P.M.	Dhomo Main mine, Sitarampur P. O., Bengal.	Dhomo Main Colli- eries, Ld.	Ganesh Manjhi, (m.), 39, Coal-cutter.	Coal	Whilst two miners were at work in a depillaring area a piece of coal, 1' 3" x 1' x 9" thick, fell from a height of 9 feet. Both of them were injured and one of them subsequently died. Inspection and inquiry made.
54	27th December, 6 A.M.	Dobari mine, Jharia P. O., Bihar and Orissa.	R. N. Bagchi & Bros., Dobari Colliery, Ld.	Sarder Manjhi, (m.), 40, Coal-cutter.	Coal	Deceased was cutting coal at the face of a gallery, when a mass of stone, 6' x 4' x 7", fell unexpectedly from between two 'slips' at a height of 7 feet. He was struck by the stone and sustained injuries to which he succumbed eighteen days later. Inspection and inquiry made.

APPENDIX II—*contd.*

Fatal Accidents during the year 1931—*contd.*

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—<i>contd.</i>						
(b) Falls of side (61 deaths).						
55	6th January, between 9 A.M. and 2 P.M.	Kanbank mine, Kanbank P. O., Burma.	Kanbank Mines, Ltd.	Ma Thot, (f.), 50; Ma Sein Kin, (f.), 40; Ma Than Baw, (f.), 18; Ma Shu, (f.), 14; <i>Tributors.</i>	Tin and wolfram	In spite of previous warnings, four tribute miners undercut the side of a sluicing openout in which working had been prohibited. They were buried and killed when the side of the openout collapsed. Inspection and inquiry made.
56	7th January, 11 A.M.	Choitodih mine, Katrasgach P. O., Bihar and Orissa.	Barrakur Coal Co., Ltd.	Prananath Keot, (m.), 15, <i>Coal-carrier.</i>	Coal	In the process of extracting pillars of coal 18 feet in height a mass of some 15 tons of coal fell from a slip in the side of a pillar. Two persons were struck by the coal and in the case of one of them the injuries sustained proved fatal. Inspection and inquiry made.
57	17th January, 5-30 P.M.	Hardwar mine, Hardwar P. O., United Provinces.	East Indian Railway.	Sumera, (m.), <i>Labourer.</i>	Stone	Deceased was killed by a fall of side in an open excavation.
58	20th January, 3-30 P.M.	Bhagaband mine, Jharia P. O., Bihar and Orissa.	Borrea Coal Co., Ltd.	Dhans Roy, (m.), 33, <i>Coal-cutter.</i>	Coal	Whilst a miner was cutting coal from the corner of a pillar a mass of coal 7' x 3' x 2', fell from a pronounced cleat. He was struck by the falling coal and received injuries to which he succumbed twelve hours later. Inspection and inquiry made.
59	21st January, 12-30 P.M.	Sangregorah (Prospecting) mine, Domchanch P. O., Bihar and Orissa.	F. F. Chrestien & Co., Ltd.	Etwari Chasa, (m.), 30, <i>Prospecting contractor.</i>	Mica	Whilst at work in an open excavation deceased was struck and fatally injured by a mass of earth, 3' x 3' x 2', which fell from the side. Inspection and inquiry made.

60	28th January, 2 A.M.	Surangi mine, Harilaghati P. O., Bihar and Orissa.	F. F. Chrestion & Co., Ltd.	Gujar Gopo, (m.), 15, Labourer.	Mica	Whilst at work underground a miner was struck and killed instantly by a mass of stone, 5' x 3' x 2', which fell from the side. Inspection and inquiry made.
61	4th February, 3-30 P.M.	Footkee mine, Kusanda P. O., Bihar and Orissa.	Eastern Coal Co., Ltd.	Harendra Nath Ghose, (m.), 37, Overman; Bistoo Mahato, (m.), 38, Timberman.	Coal	Whilst an overman and a timberman were setting up props near a pillar of coal under extraction a portion of the pillar collapsed without warning and buried them. The timberman was killed on the spot and the overman succumbed to his injuries two hours later. Inspection and inquiry made.
62	26th February, 4 P.M.	Bhulanbararee mine, Pathardih P. O., Bihar and Orissa.	Bhulanbararee Coal Co., Ltd.	Nilmony Mejhian, (f.), 21, Coal-carrier.	Coal	Whilst deceased was filling a basket with coal in a gallery 22 feet high, a mass of coal, 4' x 2' x 1', fell unexpectedly from the side of the gallery. She sustained injuries to which she succumbed within half-an-hour. Inspection and inquiry made.
63	12th March, 11 P.M.	Bagdigi mine, Jharua P. O., Bihar and Orissa.	Anderson Wright & Co.	Changoo Bilaspuri, (m.), 20, Coal-cutter.	Coal	In the process of extracting a pillar of coal, 30 feet high, a small piece of coal fell unexpectedly and struck one of the eight persons employed there. He sustained an injury to the spine and died after eleven days. Inspection and inquiry made.
64	15th March, 8-30 A.M.	Kustore mine, Kusanda P. O., Bihar and Orissa.	Ranoogunge Coal Association, Ltd.	Akloo Bhuiya, (m.), 45, Coal-carrier.	Coal	A loader was assisting to clear away coal which had been dressed down in a main hauling road, 22 feet high, when a mass of coal, 2'6" x 2'0" x 1', fell from between concealed 'slips' near the roof. He sustained serious injuries and, pneumonia supervening, died a fortnight later. Inspection and inquiry made.
65	20th March, 11 P.M.	Huntodih mine, Mohuda P. O., Bihar and Orissa.	North-West Coal Co., Ltd.	Kunche Morol, (m.), 15, Coal-carrier.	Coal	Whilst deceased was at work in a depillaring area a piece of coal, 1'10" x 1'4" x 8", fell upon him from the side of a pillar at a height of 6 feet. He was seriously injured and died nine hours later. Inspection and inquiry made.
66	8th April, 4-45 P.M.	Chinchuria mine, Asansol P. O., Bengal.	New Beerbhoom Coal Co., Ltd.	Sukroo Painka, (m.), 35; Jaharan Goud, (m.), 32; Coal-cutters.	Coal	Whilst a number of miners were extracting a pillar of coal a large mass of coal fell unexpectedly from the pillar. Two of the miners were fatally injured. Inspection and inquiry made.
67	10th April, 8 A.M.	Sawang mine, Bokaro P. O., Bihar and Orissa.	East Indian and Bengal Nagpur Railways.	Durpatia Beldarin, (f.), 36, Coal-carrier.	Coal	A woman was loading coal in a quarry near a mound of earth, 2 or 3 feet high, forming part of the filling of an old trial shaft. The earth fell over and struck her, causing fatal injuries. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1931—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—contd.						
(b) Falls of side (61 deaths)—contd.						
68	29th April, 8 A.M.	Kustore mine, Kusunda P. O., Bihar and Orissa.	Raneegunge Coal Association, Ltd.	Kambal Roy, (m.), 30, Coal-cutter.	Coal	Deceased left his working place and was in the act of loading coal which had fallen from the side of a pillar when about 1½ tons of coal fell upon him. Inspection and inquiry made.
69	7th May, 11 A.M.	Bakudih mine, Barharwa P. O., Bihar and Orissa.	Eastern Bengal Railway.	Jagoo Musahar, (m.), 18, Miner.	Stone	Whilst engaged in removing overburden in a quarry, two miners brought about the fall of ground, measuring 6' x 5' x 1'6". One of the miners was buried and suffocated. Inspection and inquiry made.
70	11th May, 6 P.M.	Dhorl mine, Bokaro P. O., Bihar and Orissa.	Bokaro and Ramgur Ltd.	Mathur Mahato, (m.), 35, Coal-cutter.	Coal	Whilst a miner was loading coal at the face of a machine-cut gallery some coal loosened by blasting broke away from the face. He was struck by the coal and sustained fatal injuries. Inspection and inquiry made.
71	15th May, 7-15 A.M.	Payangazu mine, Payangazu P. O., Burma.	K. B. Wali Moha- mad.	Shweohn, (m.), 23, Labourer.	Stone	Deceased was struck and fatally injured by a stone which rolled down the face of an open excavation.
72	23rd May, 5-10 P.M.	Kymore mine, Kymore P. O., Central Provinces.	C. P. Cement Co., Ltd.	Rankisan, (m.), 40, Labourer.	Limestone	A labourer was fatally injured when several tons of stone fell from a quarry face, 28 feet high. Inspection and inquiry made.
73	10th June, be- tween 11 A.M. and mid-day.	Kothapalle mine, Kothapalle P. O., Madras.	Tiffin & Co.	Gengannah, (m.), 40-50, Miner.	Barytes	Whilst at work in an open excavation deceased was killed by the collapse of a wall.
74	19th June, 4 A.M.	Sripur mine, Kalipahari P. O., Bengal.	Lodna Colliery Co. (1920), Ltd.	Sukur Mani Mejhian, (f.), 40; Lakhi Mejhian, (f.), 22, Loaders.	Coal	Whilst three women were loading coal in a gallery 7 feet high a mass of coal, 6' x 6' x 1', fell from the side of the gallery. Two of the women were fatally injured. Inspection and inquiry made.

75	1st July, 1-30 P.M.	Parbolla mine, Dishergarh P. O., Bihar and Orissa.	Bengal Coal Co., Ld.	Sukhi Mejhian, (f.), 42, Hopni Mejhian, (f.), 20, Coal-carriers.	Coal	Whilst a miner was robbing coal from the side of a pillar at a place where tubs were being loaded a mass of coal, 15' x 5' x 5', fell from a height of 8 feet. He was seriously injured and two women were instantly killed. Inspection and inquiry made.
76	8th July, 1 P.M.	Bawdwin mine, Namtu P. O., Burma.	Burma Corporation, Ld.	Dharam Singh, (m.), 28, Miner.	Silver-lead-zinc.	Whilst three miners were erecting timber in a stope a section of the stope collapsed and struck one of the miners who was fatally injured. Inspection and inquiry made.
77	8th July, 2-30 P.M.	Burra Dhomo mine, Sitarampur P. O., Bengal.	Burra Dhomo Coal Co., Ld.	Mongli Panika, (f.), 45, Coal-carrier.	Coal	With the object of getting loose coal a miner accompanied by his mother went through a fence into a gaofed area from which the props had been withdrawn. Whilst they were loading fallen coal a mass of coal, 3' x 3' x 5', fell from the side. The woman was fatally injured. Inspection and inquiry made.
78	4th August, 10-30 P.M.	Taungpila mine, Tavoy P. O., Burma.	Consolidated Tin Mines of Burma, Ld.	Chardri, (m.), 28, Saitoh, (m.), 26, Labourers.	Tin	Whilst hydraulic mining operations were in progress in a large open excavation, a mass of earth and stones, 100' x 80' x 50', slipped from the side and moved a distance of 350 feet. Two workmen were buried and suffocated. Inspection and inquiry made.
79	9th August, 3 P.M.	Wagon South (Bwabin) mine, Tavoy P. O., Burma.	Consolidated Tin Mines of Burma, Ld.	Nanda Lal, (m.), 25, Miner.	Tin	Workmen were engaged in repairing a pipe line in the bed of a stream at the foot of a hill slope, 200 feet high and inclined at an angle of 35 degrees. A mass of earth estimated to weigh approximately 2,400 tons, carrying trees and jungle growth, slipped to the foot of the hill. One of the men was killed and three others were slightly injured. Inspection and inquiry made.
80	18th August, 11 A.M.	Hermyingyi mine, Hermyingyi P. O., Burma.	Consolidated Tin Mines of Burma, Ld.	Kyank Chong, (m.), 36, Dump picker.	Tin	A tributary entered a rise driven from an old adit, and while at work was partially buried by a mass of earth, 6' x 5' x 4', which fell from the side—a height of 6 feet. He was fatally injured. Inspection and inquiry made.
81	25th August, 10 P.M.	Jamadoba mine, Jealgora P. O., Bihar and Orissa.	Tata Iron & Steel Co., Ld.	Puru Teli, (m.), 32, Coal-cutter.	Coal	A miner was helping to set a prop in a depillaring area when a mass of coal, 7' x 3'6" x 2', fell from the side of a pillar, a height of 5½ feet. He was struck by a piece of the falling coal and sustained fatal injuries. Inspection and inquiry made.
82	25th August, 12-30 P.M.	Ramsilla mine, Gaya P. O., Bihar and Orissa.	G. W. Powell & A. Ghani.	Baldeo Kori, (m.), 45, Quarryman.	Stone	In barring down a piece of stone from a quarry face, a quarryman released some stone from above. He was partly buried by the fall and sustained fatal injuries. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1931—contd

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—contd.						
(b) Falls of side—(61 deaths)—contd.						
83	26th August, 3-30 A.M.	Bhalgora mine, Jharia P. O., Bihar and Orissa.	Bhalgora Coal Co., -Ld.	Debi Kahar, (m.), 42, Coal-cutter.	Coal	Whilst loading coal in a depillaring area a miner was fatally injured by a mass of coal, 3' x 3' x 1'6", which fell from two converging 'slips' at a height of 16 feet. Inspection and inquiry made.
84	13th September, 3-15 A.M.	Khas Jharia mine, Jharia P. O., Bihar and Orissa.	Khas Jharia Colliery Co.	Baiga Bilaspuri, (m.), 28, Coal-cutter.	Coal	A miner was at work in a depillaring area when about 15 cwt. of coal and stone fell from the side of a pillar at a height of 12 feet. He was struck by a large piece of coal and killed instantly. Inspection and inquiry made.
85	14th September, 12-45 P.M.	Tsangpila mine, Tavoy P. O., Burma.	Consolidated Tin Mines of Burma, Ld.	Foon Toon, (m.), 44; Kondo Naikoh, (m.), 24; Low Chu, (m.), 26; Bimo, (m.), 35; Baka, (m.), 30. Labourers.	Tin	Whilst hydraulic mining operations were in progress in a large open excavation, a waterlogged mass of ground, 150' x 100' x 90', slipped from the side and moved as far as a sluicing box 1,000 feet distant. Four workmen who were at work in the sluicing box were buried and killed while a fifth was fatally injured. Inspection and inquiry made.
86	16th September, 3-30 P.M.	Blowra mine, Jealgora P. O., Bihar and Orissa.	Eastern Coal Co., Ld.	Khandi Mahatan, (.), 22, Coal-carrier.	Coal	Whilst a woman was loading a basket with coal in a gallery, 18 feet high, a mass of coal, 25' x 17' x 2' 6", fell unexpectedly from the side, killing her instantly. Another woman sustained serious injuries. Inspection and inquiry made.
87	24th September, 4 P.M.	Linton's Suratand mine, Jharia P. O., Bihar and Orissa.	P. F. Linton	Kriparam Bilaspuri, (m.), 33, Coal-cutter.	Coal	Without orders from an official of the mine, a miner was undercutting the side of a pillar in a gallery 18 feet high when a mass of coal, 9' x 12' x 2', fell from the side. He was struck and fatally injured by the falling coal. Inspection and inquiry made.

88	7th October, 7 A. M.	Kyatmi mine, Bokpyin P. O., Burma.	Eng Tein Leong	Maung Me, (m.), 33, Miner.	Tin	Whilst at work in a sluicing channel at the bottom of an open excavation, 20 feet deep, a miner was buried and suffocated by a mass of earth and stone, 22' x 10' x 6', which fell from the side. Inspection and inquiry made.
89	9th October, 1 P. M.	Standard (Benahr Section) mine, Jharis P. O., Bihar and Orissa.	Standard Coal Co., Ld.	Mangli Bania, (m.), 45, Coal-cutter.	Coal	In order to make the face of his working place safe, a miner barred down a piece of coal weighing about 50 lb. from a height of about 8 feet. The coal struck him and inflicted fatal injuries. Inspection and inquiry made.
90	10th October, 6 A. M.	Sripore mine, Kalipahari, P. O., Bengal.	Lodna Colliery Co. (1920), Ld.	Raghuandan Singh, (m.), 36, Loader.	Coal	Depillaring operations in a seam 14 feet thick were in progress and a number of loaders were loading coal which has been blasted from a pillar when a 'bump' occurred and a mass of coal weighing about 5 cwt. was dislodged from the side of the pillar. A piece of the coal struck one of the loaders and fatally injured him. Inspection and inquiry made.
91	10th October, 1 P. M.	Kustore mine, Kusunda P. O., Bihar and Orissa.	Baneegunge Coal Association, Ld.	Prayag Mahato, (m.), 35, Loader.	Coal	A loader was filling his basket near the face of a pillar under extraction when a quantity of coal fell from the face at a height of 16 feet. The coal rebounded from a ledge of floor-coal and struck him, inflicting fatal injuries. Inspection and inquiry made.
92	17th October, 4-45 P. M.	Ningah mine, Kalipahari P. O., Bengal.	Lodna Colliery Co. (1920), Ld.	Sukhnda Muchian, (f.), 32, Loader.	Coal	Near the face of a gallery, 15 feet wide and 8 feet high, a piece of coal, 8' x 2' x 1' 6", fell unexpectedly from the side and struck a female loader fatally injuring her. Inspection and inquiry made.
93	3rd November, 4 A. M.	Chinchuria mine, Asansol P. O., Bengal.	New Beerbhoom Coal Co., Ld.	Kaugali Noonis, (m.), 44, Loader.	Coal	Whilst a loader was at work near a pillar of coal under extraction, a mass of about 14 cwt. of coal suddenly burst off the side and, striking him, severed his right forearm. He died a few hours later. Inspection and inquiry made.
94	16th November, 12-30 P. M.	Ningah mine, Kalipahari P. O., Bengal.	Lodna Colliery Co. (1920), Ld.	Jhuma Singh, (m.), 37, Driller.	Coal	A mass of coal, 36' x 7' x 3', fell from the side of a pillar, and deceased, who was passing by at the time, was struck by the coal and killed. Had the overhanging sides been properly supported the accident would not have occurred. Inspection and inquiry made.
95	18th November, 2 A. M.	Central Kurkend mine, Kusunda P. O., Bihar and Orissa.	Central Kurkend Coal Co., Ld.	Chinta Ohamar, (m.), 28, Coal-cutter.	Coal	Whilst deceased was engaged in extracting a pillar of coal a mass of coal, 4' x 4' x 1', fell on him from a concealed 'slip' at a height of 8 feet. He sustained injuries to which he succumbed four hours later. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1931—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—concl'd.						
(b) Falls of side—(61 deaths)—concl'd.						
96	4th December, about 6 P.M.	Bhulanbararoo mine, Patkardih P. O., Bihar and Orissa.	Bhulanbararoo Coal Co., Ltd.	Rajaram Thakur, (m.), 23, Coal-cutter.	Coal	Whilst a miner was working in a gallery 26 feet high, a mass of coal weighing about 2 tons fell from the side of a pillar. The coal struck and dislodged a prop set as a support for the roof, and the prop fell on the miner, fatally injuring him. Inspection and inquiry made.
97	8th December, 4-30 P.M.	Chandametta mine, Parasia P. O., Central Provinces.	Pench Valley Coal Co., Ltd.	Gumani Pradhan, (m.), 35, Labourer.	Coal	Whilst cleaning a drain on a main haulage road, a labourer was struck on the back by a piece of coal, weighing about 70 lb. which fell from the side of the road. He succumbed to the injuries sustained about 2 months later. Inspection and inquiry made.
98	10th December, 4 P.M.	Aldih mine, Sitarampur P. O., Bengal.	Aldih Coal Co., Ltd.	Jodhan Kurmi, (m.), 33; Banshi Pandey, (m.), 32, Labourers.	Coal	Two workmen engaged in removing rails from a part of the mine in which pillars were being extracted were fatally injured when a mass of coal, 12' x 5' x 3', fell unexpectedly from the side of a pillar. A 'bump' occurred in the goaf at the same time. Inspection and inquiry made.
99	11th December, 2 A.M.	Bejdih mine, Sunderchak P. O., Bengal.	Equitable Coal Co., Ltd.	Dopi Baurin, (f.), 39, Loader.	Coal	Whilst loading coal in an underground gallery, 14 feet high, a woman was killed when a mass of coal, 6' x 7' x 1', fell unexpectedly from the side of the gallery. Inspection and inquiry made.
100	12th December, 11 P.M.	Bagdigi mine, Jharin P. O., Bihar and Orissa.	Anderson Wright & Co.	Pillababu Bhaina, (m.), 45, Coal-cutter.	Coal	In an underground gallery, 28 feet high, four miners were changing the position of a ladder when a piece of coal, weighing about 4 lb., was dislodged by the scraping of the ladder against the side of the gallery. The coal fell from a height of 23 feet and striking one of the men fatally injured him. Inspection and inquiry made.

1	30th December, 8-30 A.M.	Bhulanbararee mine, Pahardih P. O., Bihar and Orissa.	Bhulanbararee Coal Co., Ltd.	Patnar Chamar, (m.), 32, Loader.	Coal	Whilst at work in a depillaring area, a coal carrier was struck by a piece of coal, 6' x 6" x 6", which fell off the side of a pillar from a height of 12 feet. He received injuries to the leg and died fifteen days later. Inspection and inquiry made.
102	30th December, 5 P.M.	Dhemo Main mine, Sitarampur P. O., Bengal.	Dhemo Main Coll- eries, Ltd.	Asaram Satnami, (m.), 35, Loader.	Coal	Whilst a miner was dressing down coal from the side of a pillar in a gallery where roof coal was being mined by blasting a piece of coal, 8' 6" x 2' x 9" thick, fell on him from a height of seven feet. He sustained compound fractures of the leg and forearm and died within a few hours. Inspection and inquiry made.

IN SHAFTS (WHILST ASCENDING OR DESCENDING BY MACHINERY)—
(3 deaths).

103	25th February, 9 A.M.	Katras mine, Katrasgarh P. O., Bihar and Orissa	Burrakur Coal Co., Ltd.	Gangoo Pashman, (m.), 45, Coal-carrier	Coal	Workmen were being lowered and raised in the cages in a shaft 320 feet deep. When the engineman applied the brake its lining became detached and the brake becoming ineffective he lost control of the engine. The descending cage struck the landing platform at the bottom of the shaft with such force that five of the sixteen occupants were severely injured. One of them succumbed to his injuries. The ascending cage was arrested in the headgear by the detaching hook, and its six occupants escaped without injury. Inspection and inquiry made.
104	18th June, 3 P.M.	Chanoh mine, Barakar P. O., Bihar and Orissa.	Bengal Coal Co., Ltd.	Nakul Roy, (m.), 40, Bailing sirdar.	Coal	A sirdar was descending a shaft, 550 feet deep, when one of the guide ropes broke and the cages collided. He was thrown out of the cage and, falling to the bottom of the shaft, was killed instantly. Inspection and inquiry made.
105	2nd December, 1 P.M.	Bankaimulla mine, Charanpur P. O., Bengal.	Bengal Coal Co., Ltd.	Sheik Abid, (m.), 35, Labourer.	Coal	Deceased was killed by falling out of a cage while it was ascending a shaft. Had the bars provided for fencing the ends of the cage been used the accident would have been avoided. Inspection and inquiry made.

IN SHAFTS (FALLING DOWN SHAFT)—(3 deaths).

106	20th January, 5 P.M.	Joyramdanga mine, Asansol P. O., Bengal.	New Beerbhoom Coal Co., Ltd.	Jadu Buiya, (m.), 45, Labourer.	Coal	A labourer was assisting to lower a basket containing bricks down an airshaft, 81 feet deep, when he slipped and fell to the bottom of the shaft. He was killed instantly. Inspection and inquiry made.
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APPENDIX II—contd.

Fatal Accidents during the year 1931—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
IN SHAFTS (FALLING DOWN SHAFT)—(3 deaths)—contd.						
107	5th August, 12.30 P.M.	Tandaiya mine, Domohanch P. O., Bihar and Orissa.	F. F. Chrestien & Co., Ltd.	Bodhi Gope, (m), 30, Miner.	Mica	Whilst emptying a water bucket at an inset about 55 feet above the bottom of a vertical shaft, a miner fell down the shaft and was fatally injured. Inspection and inquiry made.
108	2nd September, 5 P.M.	Bhutgoria mine, Bhaga P. O., Bihar and Orissa.	Aldih Coal Co., Ltd.	Mohini Bourin, (f.), 20, Stones carrier.	Coal	Deceased was stepping into a cage at a shaft inset when she struck her head against the cage, causing her to fall through a space between the cage and the edge of the shaft. She fell 140 feet to the bottom of the shaft and was killed instantly. Inspection and inquiry made.
IN SHAFTS (MISCELLANEOUS)—(2 deaths).						
109	5th February, 9 P.M.	Pure Kujama mine, Jharia P. O., Bihar and Orissa.	South Buxra Coal Co.	Kali Mahato, (m), 42, Coal-cutter.	Coal	A miner attempted to cross the bottom of the shaft while the cages were in motion. He was struck by the descending cage and sustained injuries to which he succumbed one month later. Inspection and inquiry made.
110	3rd April, 2 A.M.	Lodna (Nos. 4 & 5 pits) mine, Jharia P. O., Bihar and Orissa.	Lodna Colliery Co. (1920) Ltd.	Feraí Singh, (m), 30, Trolleyman.	Coal	A trolleyman attempted to cross the bottom of a shaft while the cages were in motion. He was struck by the descending cage and sustained injuries from which he died nine hours later. Deceased should have used the bye-pass provided. Inspection and inquiry made.
BY EXPLOSIVES—(22 deaths).						
111	7th January, 1.45 P.M.	Wah mine, Wah P. O., Punjab.	Wah Stone and Lime Quarry Ltd.	Hayat Khan, son of Pir Khan, (m), 50, Stone breaker.	Stone	Deceased was struck on the head and fatally injured by a piece of stone projected a distance of 468 feet by blasting operations in an open quarry. Inspection and inquiry made.
112	23rd January, 1 A.M.	Newton Chickli mine, Parasia P. O., Central Provinces.	Newton Chickli Collieries, Ltd.	Piara, (m), 30, Coal-cutter.	Coal	When shots were being fired in an underground gallery a miner miscounted the number of explosions and entered the place as the last charge exploded. He was killed instantly. Inspection and inquiry made.

113	17th February, 8-45 P. M.	Ningah mine, Kalipahari P. O., Bengal.	Lodna Colliery Co., (1320), I.d.	Imodey Meah, (m.), 31; Jagat Bilaspuri, (m.), 30; Budhlal Bilaspuri, (m.), 35; Sumrit Bilaspuri, (f.), 16; Chain Bilaspuri, (m.), 27; Bahram Bilaspuri, (m.), 32; Aktey Bilaspuri, (m.), 37; Pitoo Bilaspuri, (m.), 35; Sahash Bilaspuri, (m.), 35; Mahosh Bilaspuri, (m.), 41; Nankoy Bilaspuri, (f.), 20; Shambhu Shaw, (m.), 32; <i>Loaders.</i> Shyam Sunder Singh, (m.), 28, <i>Munshi.</i>	Coal	Some 21 lb. of gunpowder was issued to four short-firers, placed in a wooden box and taken by one of the shot-firers into a godown for distribution and placing in tin canisters preparatory to its being taken underground. During the temporary absence of the short-firers the gunpowder was ignited and sixteen persons who during heavy rain had taken shelter in the godown were severely burnt. Thirteen of them succumbed to their injuries. It was presumed that some one had been smoking and had set fire to the powder. Inspection and inquiry made.
114	5th May, 4-30 P. M.	155 Hindubagh mine, Hindubagh P. O., Baluchistan.	Baluchistan Chrome Co., Ld.	Abdul Wahid, (m.), 30, <i>Minor.</i>	Chromite	Whilst deceased was attempting to light the fuses of a round of three shots of gelignite in a tunnel, one of the shots exploded and killed him instantly. Inspection and inquiry made.
115	24th May, 2-30 A. M.	Ghorawari mine, Jannordeo P. O., Central Provinces.	Hirdagarh Collieries, Ld.	Seobaks Thakur, (m.), 40, <i>Coal-cutter.</i>	Coal	Deceased left his working place whilst a shot-firer was charging three holes with gunpowder. Unknown to the shot-firer he approached the gallery just as the charges exploded. He was struck by pieces of coal and sustained injuries which proved fatal. Inspection and inquiry made.
116	2nd July, 12-30 P. M.	Jamuria mine, Charanpur P. O., Bengal.	Equitable Co., Ld.	Coal Sakharam Teli, (m.), 33, <i>Coal-cutter.</i>	Coal	Under the mistaken impression that two shots he had lighted had both exploded a miner returned to his working place and was fatally injured when the second shot exploded. Inspection and inquiry made.
117	12th August, 12 Midnight.	Toposi mine, Toposi P. O., Bengal.	Bansra Coal Co., Ld.	Sindhu Roy, (m.), 34, <i>Shot-firer.</i>	Coal	Whilst a shot-firer was preparing a round of gunpowder shots for firing he was killed by the accidental explosion of one of the charges. Inspection and inquiry made.

APPENDIX I—contd.

Fatal Accidents during the year 1931—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
BY EXPLOSIVES—(22 deaths)—contd.						
118	28th August, 8-30 P. M.	Jarangdih mine, Bokaro P. O., Bihar and Orissa.	Bombay, Baroda & Central India Railway and M. and S. M. Rail- way.	Dilawar Meah, (m.), 35, Coal-cutter.	Coal	During blasting operations in a quarry after dark a coal-cutter left the appointed place of refuge, and was struck and killed by stone projected by the blasting. Inspection and inquiry made.
119	19th September, 9 A. M.	Sirka mine, Argada P. O., Bihar and Orissa.	South Karanpura Coal Co., Ltd.	Sabat Singh, (m.), 33; Daduram, (m.), 29, Coal-cutters.	Coal	Two coal-cutters were proceeding to their working places underground and one of them was carrying gunpowder cartridges in a canister suspended on a crowbar over his shoulder. He was also carrying an open lamp which by mischance ignited the gunpowder. Both the men sustained serious burns to which they succumbed a few hours later. Inspection and inquiry made.
IRRUPTIONS OF WATER—(2 deaths).						
120	3rd December, 5 P. M.	Jamadoba mine, Jalgora P. O., Bihar and Orissa.	Tata Iron & Steel Co., Ltd.	Rorin Telin, (f.), 28; Jasada Korain, (f.), 25, Coal-carriers.	Coal	An underground gallery was being driven in the neighbourhood of certain galleries which were being used as a lodgment for water. Owing to an unsuspected defect in the mine plan due to an omission in surveying a connection between the two workings was made, and an irruption of water occurred. Two women were drowned. Inspection and inquiry made.
HAULAGE—(32 deaths).						
121	2nd January, 9 A. M.	Parbella mine, Dishergarh P. O., Bihar and Orissa.	Bengal Coal Co., Ltd.	Ramoni Mejhian, (f.), 33, Coal-carrier.	Coal	Whilst a train of nine loaded tubs was crossing a haulage dip the hook of one of the couplings caught the haulage rope and dragged it aside for some distance.—A woman who was standing close by was struck by the rope and crushed between it and a brick wall. She was seriously injured and died thirty three hours later. Inspection and inquiry made.

122	31st January, 5-30 A. M.	Katras mine, Katrasgarh P. O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Prosadi Bajwar, (m.), 40, Pump-minder.	Coal	A train of eight loaded tubs was being hauled up a gradient of 1 in 5 when a drawbar link failed and the last tub ran wild. A pump-minder who was sleeping at the side of the line was struck by coal thrown from the tub when it overturned; he sustained injuries to which he succumbed twelve hours later. Inspection and inquiry made.
123	13th February, 8 A.M.	Kankane mine, Bansjora P. O., Bihar and Orissa.	Eastern Coal Co., Ld.	Foudia Bhuiya, (m.), 27, Trolleyman.	Coal	Two men were pushing a loaded tub on a slightly dipping road, whilst a third man was guiding it over a crossing. The tub ran off the rails, overturned and fell on the third man. He sustained injuries to which he succumbed three hours later. Inspection and inquiry made.
124	13th February, 10-30 P.M.	Kendwadih mine, Kusunda P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Chedi Singh, (m.), 26, Driller.	Coal	Deceased was struck by a loaded tub which was being trammed on a road with a slight gradient in favour of the load. He received internal injuries which proved fatal a few hours later. Inspection and inquiry made.
125	26th February, 3 P.M.	Tajuwala mine, Dhak P. O., Punjab.	Northern India Coal Co	Wali Mohamad, (m.), 45, Miners' sirdar.	Coal	A train of six loaded tubs was being hauled from a mine up a gradient of 1 in 10 when the coupling of the fourth tub broke and three tubs ran wild. The tubs struck the timber supports at a junction, 200 feet below, and caused the fall of roof stone, 4, thick, over an area measuring 17 feet by 7 feet. Deceased, who was in the vicinity, was struck by the stone and fatally injured. Inspection and inquiry made.
126	18th March, 11 P.M.	Bararee mine, Jalgora P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Johara, (f.), 15, Coal-carrier.	Coal	Whilst a train of twelve empty tubs was being lowered down a haulage plane a link connected to the rope capping broke and the tubs ran wild. Deceased was attempting to cross the road when she was struck by the runaway tubs and fatally injured. Inspection and inquiry made.
127	14th March, 11 A.M.	Dhansar-North Bhagatdih mine, Kusunda P. O., Bihar and Orissa.	Dhansar Coal Co., Ld.	K. K. Hazra Chowdhury, (m.), 60, Manager.	Coal	Deceased was walking on an endless rope haulage road, when he stepped on them owing rope, lost his balance and fell down. He sustained injuries to which he succumbed three hours later. Inspection and inquiry made.
128	21st March, 1 P.M.	Standard (Jharis Khos section) mine, Jharis P. O., Bihar and Orissa.	Standard Coal Co., Ld.	Ellahi Meah, (m.), 50, Coal-cutter.	Coal	Whilst a train of empty tubs was being lowered on an underground haulage slope with a gradient of 1 in 10, the leading tub became uncoupled and ran wild. A miner who was standing at the junction of a working level with the haulage slope was struck by the tub and killed instantly. Inspection and inquiry made.
129	1st April, 10 P.M.	West Jamuria mine, Charanpur P. O., Bengal.	West Jamuria Coal Co., Ld.	Chintamani Baurin, (f.), 58, Loader.	Coal	While a train of ten loaded tubs was being hauled out on an endless haulage road deceased was helping to re-rail a tub on a parallel line. She was struck and fatally injured by a sprag projecting from a wheel of the last tub of the moving train. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1931—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
HAULAGE—(33 deaths)—contd.						
180	24th April, about 7-30 P.M.	Loyabad mine, Bansjora P. O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Mathura Jeswara, (m.), 28, Trammer.	Coal	A trammer walking along a haulage road while a train of loaded tubs was being hauled out was knocked down and fatally injured. Inspection and inquiry made.
181	25th April, 1 P.M.	Bhulanbararee mine, Pathardih P. O., Bihar and Orissa.	Bhulanbararee Coal Co., Ltd.	Azraf Roy, (m.), 31, Trolleyman.	Coal	Whilst re-railing a loaded tub deceased received a slight injury. Tetanus supervened and he died fifteen days later. Inspection and inquiry made.
182	2nd May, 5-25 P.M.	Barkui mine, Parasia P. O., Central Provinces.	Pench Valley Coal Co., Ld.	Sakroo Gond, (m.), 30, Coal-carrier.	Coal	Five loaded tubs ran wild down an incline of 1 in 10. Deceased, who was pushing an empty tub at the bottom of the incline, was struck by the tubs and fatally injured. Inspection and inquiry made.
183	5th May, 10-20 A. M.	Kustore mine, Kusumda P. O., Bihar and Orissa.	Kansegunge Coal Association, Ld.	Dasarth Bauri, (m.), 50, Road-cleaner.	Coal	Whilst working on an underground haulage road deceased was knocked down and killed by a train of loaded mine cars. Inspection and inquiry made.
184	5th May, 3-20 P. M.	Sodepur (Nos. 9; & 10 pits) mine, Sitarampur P. O., Bengal.	Bengal Coal Co., Ld.	Lekhu Dasadh, (m.), 35, Coal-carrier.	Coal	Whilst an empty tub was being lowered down an incline dipping at 1 in 5, it became detached from the rope and ran wild for a distance of 450 feet, where it ran over a coal-carrier, killing him on the spot. Inspection and inquiry made.
185	18th May, 3-30 P. M.	Bararee mine, Jealzora P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Jahan Meah, (m.), 22, Coal-loader.	Coal	Whilst a train of six empty tubs was being lowered down a haulage incline, the leading tub became uncoupled and ran wild. Deceased was asleep on a working level. On hearing the alarm he woke up and ran on to the haulage incline, where he was struck by the tub and fatally injured. Inspection and inquiry made.
186	19th May, 9-5 P. M.	Ningah mine, Kalipahari P. O., Bengal.	Lodna Colliery Co. (1920), Ld.	Hosseni Meah, (m.), 33, Trolleyman.	Coal	Whilst a trolleyman was pushing a loaded tub into a cage at the bottom of a shaft another loaded tub, which had been left standing unspragged at a distance of 40 feet, gravitated towards him. He was crushed between the tubs and sustained injuries which subsequently caused death. Inspection and inquiry made.

137	2nd June, 10-30 A. M.	Chandametta mine, Parasia P. O., Central Provinces.	Pench Valley Coal Co., Ltd.	Ramadin Ahir, (m.), 35, <i>Explosive-carrier.</i>	Coal	Whilst a train of six tubs was being lowered down an incline of 1 in 4½, the haulage rope broke and the tubs ran wild. Deceased, who was about to walk up the incline, ran down the incline instead of taking refuge in the man-hole provided. He was struck by the tubs and fatally injured. Inspection and inquiry made.
138	17th June, 4-30 P. M.	Standard (Jharia Khas section) mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ltd.	Gokul Ohamar, (m.), 20, <i>Loader.</i>	Coal	Deceased was pushing an empty tub up a slight slope when he slipped and fell to the ground. The tub ran back and struck him, causing injuries to which he succumbed within a few hours. Inspection and inquiry made.
139	23rd June, 7 P. M.	Bararee mine, Jalgora P. O., Bihar and Orissa.	East Indian Coal Co., Ltd.	Bahartin Bilaspurin, (f.), 26, <i>Coal-carrier.</i>	Coal	Whilst a train of eleven loaded tubs was being hauled up a slope of 1 in 12, a coupling failed and nine tubs ran wild. They crashed into two loaded tubs which were resting against a buffer. The buffer broke and the tubs finally came to rest against the corner of a pillar of coal. Deceased was fatally crushed between the tubs and the corner of the pillar. Inspection and inquiry made.
140	27th June, 6-30 P. M.	Bhamori mine, Parasia P. O., Central Provinces.	Amalgamated Coal- fields, Ltd.	Kusni Gondni, (f.), 18, <i>Coal-carrier.</i>	Coal	Deceased was walking up an inclined haulage road when, owing to a haulage clip becoming loose on the rope, two tubs ran wild. She was struck by the tubs and fatally injured. Inspection and inquiry made.
141	9th July, 6 P. M.	Jamadoba mine, Jalgora P. O., Bihar and Orissa.	Tata Iron & Steel Co., Ltd.	Etvari Bilaspurin, (f.), 36, <i>Coal-carrier.</i>	Coal	Whilst a train of nine empty cars was being lowered down an underground haulage road, graded at 1 in 8, the leading car became derailed and the train ran into a branch level. Deceased, who was standing just inside the level, was struck by a car and sustained injuries which proved fatal. Inspection and inquiry made.
142	30th July, 4-30 P. M.	Mahakali mine, Chanda P. O., Central Provinces.	Hajeabhoj Laljee & Co.	Aremallaya Arewar, (m.), 30, <i>Coal-cutter.</i>	Coal	Several miners were walking down a steep haulage incline when owing to imperfect coupling four empty tubs ran wild. The tubs struck two men, fatally injuring one and slightly injuring the other. Inspection and inquiry made.
143	7th August, 11 A. M.	Girimint mine, Charanpur P. O., Bengal.	Girimint Coal Co., Ltd.	Jadhistir Bauri, (m.), 40, <i>Coal-cutter.</i>	Coal	Two miners had removed the first of eight empty tubs which were standing on a tramline dipping at 1 in 80, and were pushing it round a curve, when the tubs behind them ran wild and bumped into them. One of the miners was seriously injured and died nineteen days later. Had the miners spragged the tubs behind them the accident would not have occurred. Inspection and inquiry made.
144	11th August, 7-30 A. M.	Mndidih mine, Sijua P. O., Bihar and Orissa.	Burrakur Coal Co., Ltd.	Baghubir Dasad, (m.), 25, <i>Trolleyman.</i>	Coal	A train of eight empty tubs had been coupled up and was being lowered over the brow of an underground haulage road, when the first five tubs became uncoupled and ran amain. A trolleyman was run over by the tubs and fatally injured. If in accordance with standing orders the train had been limited to five tubs and the safety-rope had been attached the accident would not have occurred. Inspection and inquiry made.

APPENDIX II—*contd.*

Fatal Accidents during the year 1931—*contd.*

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
HAULAGE—(32 deaths)—<i>contd.</i>						
145	16th August, 4-30 A.M.	Sirka mine, Argada P. O., Bihar and Orissa.	South Karanpura Coal Co., Ltd.	Mira Bux, (m.), 45, Trammer.	Coal	Deceased was riding or attempting to ride on a train of loaded tubs being hauled from a mine up a slope of 1 in 2, when he was crushed between the tubs and the side of the haulage road. He was killed instantly. He was not authorised to ride on the tubs, and was employed on the surface and not underground. Inspection and inquiry made.
146	16th September, 4-30 P.M.	West Gopalichuckmine, Kusunda P. O., Bihar and Orissa.	Gopalichuck Coal Co., Ltd.	Abdul Meah, (m.), 45, Fitter.	Coal	A fitter was working on a pump on a haulage road when a train of five loaded tubs ran amain due to the failure of the rope socket. He was struck by the tubs and sustained fatal injuries. A drag had been attached, but had broken when the strain came on to it. Inspection and inquiry made.
147	9th October, 3-30 A.M.	Serampur mine, Giridih P. O., Bihar and Orissa.	East Indian Rail- way.	Chaman Rai, (m.), 48, Coal-cutter.	Coal	On a gravity haulage slope five empty tubs ran amain as the result of the breakage of a coupling-hook. A miner who was standing at the foot of the haulage way was crushed between the tubs and the side of the haulage road. He sustained fatal injuries. Inspection and inquiry made.
148	16th October, 9 P.M.	Jote Dhemu mine, Ukhra P. O., Bengal.	Jote Dhemu Colli- ery Co.	Pootoo Baurin, (f.), 50, Loader.	Coal	An aged female loader was killed near the bottom of a winding shaft by a loaded tub which ran wild down a slight gradient. The employment of old persons in a mine is inadvisable. Inspection and inquiry made.
149	5th November, 4 A.M.	Sirka mine, Argada P. O., Bihar and Orissa.	South Karanpura Coal Co., Ltd.	Hiraman Ghasi, (m.), 30, Haulage atten- dant.	Coal	A haulage attendant was walking down a haulage road whilst loaded tubs were being raised. He was severely crushed between the moving tubs and the side of the roadway, and subsequently he died. Inspection and inquiry made.
150	29th November, 1-45 A.M.	Kustore mine, Kusunda P. O., Bihar and Orissa.	Raneesungro Coal Association, Ltd.	Hira Dhikar, (m.), 40, Trolleyman.	Coal	Deceased was riding between the first and second cars of a train of six empty mine cars which was being drawn up a road with a gradient of about 1 in 12. The train became derailed, and he was thrown off and killed. Inspection and inquiry made.

151	17th December, 2-30 P. M.	Kustore mine, Kusanda P. O., Bihar and Orissa.	Raneegungo Coal Association, Ld.	Fakir Mohamad, (m.), 30, Trolleyman.	Coal	Whilst a loaded tub was being lowered down a slope of 1 in 10 by means of sprags it became derailed and overturned. A trammer stationed near the foot of the slope for the purpose of removing the sprags was struck by the tub and fatally injured. Inspection and inquiry made.
152	25th December, 3 P.M.	Jamadoba mine, Jalgora P. O., Bihar and Orissa.	Tata Iron and Steel Co., Ld.	Bochon Singh, (m.), 22, Surface labourer.	Coal	Deceased, in attempting to board a train of moving mine cars, slipped and fell and sustained injuries which proved fatal. Inspection and inquiry made.
BY UNDERGROUND MACHINERY—(1 death).						
153	27th February, 7-30 P.M.	Central Kurkend mine, Kusanda P. O., Bihar and Orissa.	Central Kurkend Coal Co., Ld.	Amiruddin Meah, (m.), 20, Tugger driver.	Coal	Whilst a haulage engine was in motion the driver appears to have attempted to guide the rope when his hand was caught and he was pulled on to the drum. He was killed instantly. Inspection and inquiry made.
SUNDRIES UNDERGROUND—(12 deaths).						
154	28th January, 4 A.M.	Bejdih mine, Sundarchak P. O., Bengal.	Equitable Coal Co., Ld.	Fulari Bauri, (m.), 30, Driller.	Coal	In a gallery 12 feet high where roof coal was being worked, two miners clamped a drilling machine between the top of a wooden platform, 5 feet high, and the roof of the gallery. While the drill was in operation the pressure exerted by the clamp caused the platform to collapse. The two miners fell to the floor and one of them was fatally injured. Inspection and inquiry made.
155	9th March, 8-30 A.M.	Jamadoba mine, Jalgora P. O., Bihar and Orissa.	Tata Iron & Steel Co., Ld.	Phulbasia Turin, (f.), 16, Coal-carrier.	Coal	Whilst a woman was walking to her working place in underground workings her clothing was set on fire by the lamp carried by one her companions. She succumbed to burns ten hours later. Inspection and inquiry made.
156	14th May, 2-50 A.M.	Kargali mine, Bokaro P. O., Bihar and Orissa.	Secretary of State for India.	Fulmati, (f.), 45, Labourer.	Coal	A woman was pushing a tub in a quarry when a severe storm suddenly arose. In running for shelter she fell and sustained fatal injuries to the head. Inspection and inquiry made.
157	23rd May, 10-30 A.M.	Kalabagh mine, Kalabagh P. O., Punjab.	Government of India.	Mangladha, (m.), 40, Labourer.	Salt	Whilst removing waste salt from a stack, about 5 feet high, deceased was fatally injured by a block of salt, weighing about 100 lb. which toppled over and fell on him. Inspection and inquiry made.
158	4th June, 6-30 P.M.	Damagurria mine, Kulti P. O., Bengal.	Damagurria Coal Co. (1930) Ld.	Mangal Rai, (m.), 35, Trolleyman.	Coal	Three trolleyman were pushing a loaded tub along a tramline on a ledge 37 feet above the bottom of a quarry, when the tub derailed and overturned. One of the men overbalanced, fell over the ledge to the bottom of the quarry, and was killed instantly. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1931—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
SUNDRIES UNDERGROUND—(12 deaths)—contd.						
139	25th July, 3 A.M.	Bararee mine, Jeaigora P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Johan Kurmi, (m.), 45, Coal-cutter.	Coal	Whilst standing on a ladder in a gallery, and drilling a shot-hole in the roof-coal a miner fell from a height of 18 feet. He sustained fatal injuries. Inspection and inquiry made.
160	27th August, 6 P.M.	Bararee mine, Jeaigora P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Noharsi Koot, (m.), 34, Coal-cutter.	Coal	In a place where pillars of coal 26 feet in height were being extracted a miner standing on a ladder barred down a piece of coal weighing about 15 cwt. from the top of a pillar. The coal struck and dislodged a prop which, in falling, struck another miner, inflicting fatal injuries. Inspection and inquiry made.
161	2nd October, 3 A.M.	Aldih mine, Silarampur P. O., Bengal.	Aldih Coal Co., Ld.	Chandmani Mejhian (f.), 46, Loader.	Coal	Whilst carrying a large lump of coal on her head down a slope in an underground gallery deceased slipped and fell. The coal fell on her leg causing injuries to which she succumbed later. Inspection and inquiry made.
162	5th December, 8 A.M.	Zawe mine, Touasserim P. O., Burma.	Saw Lein Lee	Kon Sein, (m.), 43, Miner.	Tin	In an open excavation a miner slipped on a steep slope and rolled for a distance of 20 feet. He was internally injured and died six hours later. Inspection and inquiry made.
163	12th December, 4 A.M.	Darkni mine, Parasia P. O., Central Provinces.	Pauoh Valley Coal Co., Ld.	Gonesh Kabar, (m.), 20, Haulage hand.	Coal	Deceased with two other trammers was re-railing a loaded tub when the tub slipped and he was crushed between it and the side of the gallery. He was fatally injured. Inspection and inquiry made.
164	13th December, 6-15 P.M.	Bawdwin mine, Namtu P. O., Burma.	Burma Corporation Ld.	Lee Thong Sai, (m.), 35, Miner.	Silver- lead- zinc.	During stopp filling operations a miner was carried down an inclined slide, by a mass of slurry released from a chute, and projected through an opening, 1-4" x 1-3", into a vertical chute. He fell to the bottom of an unfilled stopp, 4½ feet below, and was killed instantly. Inspection and inquiry made.
165	16th December, 12-1½ P.M.	Bagdigi mine, Jharua P. O., Bihar and Orissa.	Anderson Wright & Co.	Daulat Menh, (m.), 35, Sticker.	Coal	Whilst deceased was supervising the withdrawal of props from a depillaring area, a prop fell and struck him. He received injuries which proved fatal. Inspection and inquiry made.

BY SURFACE MACHINERY—(1 death).

166	17th March, 8-45 A.M.	Khewra mine, Khewra P. O., Punjab.	Government India.	of Khandam Hussain Shah. (m.), 30. <i>Motor attendant.</i>	Salt
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Whilst attempting to replace a belt which had slipped off a pulley in motion deceased was caught between the belt and the pulley and fatally injured. Inspection and inquiry made.

ON SURFACE RAILWAYS AND TRAMWAYS BELONGING TO THE MINE—(12 deaths).

167	3rd February, 2 P.M.	Jatachappa mine, Parasia P. O., Central Provinces.	Amalgamated Coal- fields, Ld.	Bhickchand, son of Bhangi Katia, (m.), 22. <i>Bankman.</i>	Coal
168	5th February, 5-45 A.M.	Junnordeo No. 2 mine, Parasia P. O., Central Provinces.	R. S. H. Verma & Munshi Kanhaiya- lal Ld.	Chandoo. (m.), 30, <i>Trolleyman.</i>	Coal
169	14th February, 4 A.M.	Bejdih mine, Sunderchak P. O., Bengal	Equitable Coal Co., Ld.	Someswar Kurmi, (m.) 20, <i>Haulageman.</i>	Coal
170	2nd March, 11-30 A.M.	Sukkur mine, Sukkur P. O., Bombay.	Government of Bombay. (P. W. Department.)	Ghulam Ali, (m.), 40, <i>Miner.</i>	Stone
171	8th April, 5 A.M.	Dhori mine, Bokaro P. O., Bihar and Orissa.	Bokaro & Ramgur Ld.	Hatam Mesh, (m.), 27, <i>Coke-kilm la- bourer.</i>	Coal
172	6th May, 10-30 A.M.	Sripur mine, Kalipahari P. O., Bengal.	Lodna Colliery Co. (1920) Ld.	Etwari Mahato, (m.), 26. <i>Loader.</i>	Coal

Deceased was helping to hand-shunt a wagon on a surface railway when his shoe caught fast between the rail and a switch. Before he could release it he was run over and sustained injuries which caused death two days later. Inspection and inquiry made.

Owing to the breakdown of a locomotive four trolley men were in the course of duty riding on a train of 7 tubs which was running down a gradient of 1 in 60 when the leading tub became derailed. They all jumped off and in doing so one of them fell down an embankment 18 feet high. He sustained internal injuries and died eleven hours later. Inspection and inquiry made.

A set of four loaded tubs was being hauled up a surface endless rope haulage plane, when in some manner unexplained the haulage clip became detached from the rope. The tubs ran back and struck a haulageman who was standing on the line. He was fatally injured. Inspection and inquiry made.

Whilst hand-shunting trucks on a surface railway deceased was crushed between the buffers of two trucks, and was fatally injured. Inspection and inquiry made.

In attempting to pass between two wagons during hand-shunting operations on a railway siding a labourer was crushed between the buffers and killed instantly. Inspection and inquiry made.

Whilst a loaded wagon was being hand-shunted it struck a temporary support against which a plank was leaning. The plank fell on deceased, inflicting injuries to the skull which caused death within a few hours. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1931—contd.

Serial number	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
ON SURFACE RAILWAYS AND TRAMWAYS BELONGING TO THE MINE—(12 deaths)—contd.						
173	16th May, 2-30 A.M.	Argada mine, Argada P. O., Bihar and Orissa.	Bengal-Nagpur Railway Co., Ld.	Gonesh Gowala, (m.), 40, Shunter.	Coal	A shunter, failing to move a loaded wagon standing in a colliery siding, released the brakes of two empty wagons standing behind and allowed them to run into the loaded wagon. The impact caused the empty wagons to rebound and come together again. Deceased in attempting to pick up a lever was crushed between the buffers of the wagons, and killed instantly. Inspection and inquiry made.
174	30th June, 2 P.M.	Bawdwin mine, Namtu P. O., Burma.	Burma Corporation Ld.	Dulla Singh, (m.), 28, Brakesman.	Silver- lead-zinc	Four of a train of ten cars were being moved on to a tippler when a brakesman who was removing the coupling between the fourth and fifth cars slipped and was crushed between the fifth car and the frame of the tippler. He was fatally injured. Inspection and inquiry made.
175	11th September, 10 P.M.	Batibati mine, Kalipahari P. O., Bengal.	Batibati Collieries, Ld.	Keran, Bauri, (m.), 45, Trammer.	Coal	While helping to push a train of five loaded tubs along a level tramline on the surface deceased slipped and fell in front of the train. He was run over and sustained serious injuries to which he succumbed on the following day. Inspection and inquiry made.
176	15th October, 7 A.M.	Anarpathra mine, Katrasgarh P. O., Bihar and Orissa.	Union Coal Co., Ld.	Dukhni Bhuiyan, (f.), 15, Shale-picker.	Coal	Whilst attempting to cross a siding line when railway wagons were being hand-shunted, a shale-picker was caught between the buffers of a stationary wagon and a moving wagon. She sustained fatal injuries. Inspection and inquiry made.
177	5th December, 8-30 P.M.	Modhujore mine, Kajoragram P. O., Bengal.	Modhujore Co., Ld.	Yongu Nunia, (m.), 16, Oiler.	Coal	Deceased received fatal injuries when a tub from which he was taking coal for his own domestic purposes overturned while running on a surface endless rope haulage track. He was not on duty at the time. Inspection and inquiry made.
178	10th December, 6 A.M.	Ramnagar mine, Kulti P. O., Bengal.	Bengal Iron Co., Ld.	Bhatoo Gope, (m.), 28, Trolleyman.	Coal	Whilst attempting to board a stationary locomotive on a surface tramway a trolleyman was crushed between it and another locomotive which was moving on a parallel line. He received injuries from which he died eight days later. It was against orders to ride on the locomotives. Inspection and inquiry made.

BY ELECTRICITY—(1 death).

179	24th May, about 9 P.M.	Ballihari mine, Kusunda P. O., Bihar and Orissa.	Ballihari Colliery Co.	Bhurubha Kabatri, (m.), 32, Contractor's employee.	Coal	Deceased went into a gallery where bare wires were installed for supplying a pump motor and came into contact with a 'live' wire. He was electrocuted. The system was 3-phase, 550 volts, with earthed neutral. The accident would not have occurred, had an armoured cable, as required by the Electricity rules, been installed. Inspection and inquiry made.
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MISCELLANEOUS ON SURFACE—(10 deaths).

180	1st January, 2-30 P.M.	Bhajipani mine, Parasia P. O., Central Provinces.	Amalgamated Coal-fields Ld.	Jilkoo Goojar, (m.), 30, Labourer.	Coal	Deceased was engaged in demolishing old buildings when a wall collapsed and killed him. Instead of demolishing the wall brick by brick, as ordered, he undermined the wall and caused it to fall. Inspection and inquiry made.
181	5th January, 2-30 P.M.	Chanoh Mine, Barakar P. O., Bihar and Orissa.	Bengal Coal Co., Ld.	Moti Dom, (m.), 23, Labourer.	Coal	In a bin forming part of the surface equipment of a sand stowing plant wet sand had caused a block in the shoot conveying sand to a mixer situated in an adjacent shaft. A labourer entered the bin and whilst he was at work with a shovel the block was released and he was carried into the shoot by the moving sand. He was suffocated. Inspection and inquiry made.
182	12th March, 1 A.M.	Jogta mine, Sijua P. O., Bihar and Orissa.	Agabeg Brothers.	Ramjan Meah, (m.), 26, Labourer.	Coal	When five men by means of a manilla rope had lowered a basket containing bricks to a depth of 50 feet in a shaft, 170 feet deep, two of the men fell down and the other three lost control of the load and let go of the rope. Deceased, who was standing near the top of the shaft, was struck by the wooden handles attached to the rope. He sustained injuries to which he succumbed half-an-hour later. Inspection and inquiry made.
183	14th March, 8 P.M.	Tirap mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ld.	Bakhal Tanti (m.), 17, Pony Driver.	Coal	The driver of a pony used for hauling tubs on the surface was kicked in the abdomen by a pony driven by another driver. He was internally injured and died almost immediately. Inspection and inquiry made.
184	18th March, 5 A.M.	Datla mine, Junnordeo P. O., Central Provinces.	Amalgamated Coal fields, Ld.	Gangi Dhimran, (f.), 40, Coal-carrier.	Coal	Whilst engaged in carrying coal on the surface deceased accidentally set fire to her clothing. She sustained extensive burns and died two days later. Inspection and inquiry made.
185	17th April, 1 P.M.	Jukehi mine, Katni P. O., Central Provinces.	Nasarwanji Dubash.	M. Boori Goren, (f.), 20, Labourer.	Limestone	Whilst deceased was walking up steps leading from an open excavation, 18 feet deep, she slipped and rolled down to the foot of the steps sustaining injuries which proved fatal. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1931—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
MISCELLANEOUS ON SURFACE—(10 deaths)—contd.						
186	22nd April, 8-30 A.M.	Bankadun mine, Palaw P. O., Burma.	E. Maxwell-Lefroy	Soon Tin, (m.), 45, Labourer.	Tin	Whilst at work in an open excavation deceased slipped and fell a distance of some eight feet. He sustained fatal injuries. Inspection and inquiry made.
187	6th June, 9 A.M.	Bhulanbararee mine, Pathardih P. O., Bihar and Orissa.	Bhulanbararee Coal Co., Ltd.	Kunjah Moosohar, (m.), 54, Labourer.	Coal	Whilst coal was being loaded from stock on the surface a prop, standing partially buried in the coal, suddenly fell over and struck deceased. He sustained an injury which proved fatal. Inspection and inquiry made.
188	6th July, 2 A.M.	Bararee mine, Jealgora P. O., Bihar and Orissa.	East Indian Coal Co., Ltd.	Banshi Chamar, (m.), 18, Labourer.	Coal	Whilst cleaning the flues of a boiler, deceased fell into the ash-pit and received extensive burns. He died a few days later. Inspection and inquiry made.
189	1st October, 5 P.M.	Dhobidih mine, Giridih P. O., Bihar and Orissa.	Bengal Giridih Coal Co., Ltd.	Narayan Chamar, (m.), 45, Coal-cutter.	Coal	A small subsidence of the surface occurred in an undermined area where outcrop coal was being quarried. A miner fell amongst the subsiding ground and received fatal injuries. Inspection and inquiry made.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Reason for exclusion.	Cause of accident and remarks.
FATAL ACCIDENTS NOT INCLUDED IN THE STATISTICS—(24 deaths).							
1	5th January, 4-30 P.M.	Samdi and Sangramgarh mine, Samdi P. O., Bengal.	B. Hazra & Co.	Kappa Mejhian, (f.), 32.	Coal	Not employed.	While stealing coal from a disused quarry deceased was killed by a mass of earth, 4'x6'x1', which fell on her from a height of 8 feet. Inspection and inquiry made.
2	27th January, 3 A.M.	Kustore mine, Kusunda P. O., Bihar and Orissa.	Rancegunge Coal Association, Ltd.	An unknown person.	Coal	Not a mining accident.	The decomposed body of a person unknown was found at the bottom of a shaft 200 feet deep. The shaft was properly fenced. Inspection and inquiry made.
3	21st February, 2 A.M.	Kyanktalone mine, Kyanktalone P. O., Burma.	Khan Bahadur Ibrahim.	Ma Neo Ah, (f.), 45.	Stone	Not employed.	A block of stone, 8'x3'x3', was dislodged by miners and rolled down the face of a quarry for a distance of some 150 feet, where it broke into pieces. A woman who was bringing food to one of the miners was struck and fatally injured by one of the fragments. Inspection and inquiry made.
4	16th March, 8-30 P.M.	Darulah mine, Pandaveswar P. O., Bengal.	New Kendah Coal Co., Ltd.	Konka Manjhi, (m.), 50, <i>Coal-cutter.</i>	Coal	Not a mining accident.	Deceased was sleeping in a straw shelter which caught fire. He sustained burns which subsequently caused death. Inspection and inquiry made.
5	31st March, 5-45 P.M.	Serampur mine, Giridih P. O., Bihar and Orissa.	East Indian Railway.	Pokhan Chamar, (m.), 11.	Coal	Not employed.	One of the brick walls of a tank containing water collapsed, and two children playing nearby were seriously injured. One of the children died shortly after. Inspection and inquiry made.
6	1st April, 8-45 A.M.	Hindustan Ialpath mine, Chanda P. O., Central Provinces.	Diwan Bahadur Ballabhdas & Sons.	Elloy son of Lingaya Modi, (m.), 11.	Coal	Not employed.	Unknown to the person in charge an unemployed boy was riding beneath a railway wagon which was being hand shunted. He fell off the moving wagon, and sustained injuries to the foot which proved fatal. Inspection and inquiry made.
7	12th April, 9 A.M.	Budroochuck mine	Budroochuck Coal Mining Co., Ltd.	Iakhan Bhor, (m.), 5.	Coal	Not employed.	Deceased was found drowned in a disused boiler feed tank containing 4 feet of water. Inspection and inquiry made.
8	13th May, 1-30 P.M.	South Keshalpur mine, Katraagarh P. O., Bihar and Orissa.	B. N. Mukherjee & others.	Gahni Kumarin, (f.), 50.	Coal	Not employed.	Deceased was found buried beneath a fall of rock from the side of an abandoned quarry. The quarry was properly fenced. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1931—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Reason for exclusion.	Cause of accident and remarks.
FATAL ACCIDENTS NOT INCLUDED IN THE STATISTICS—(24 deaths)—contd.							
9	15th May, 11 A.M.	Devadane, Chiprupallee P. O., Madras.	Vizianagram Mining Co., Ltd.	Sanapathi Achamma, (f.), 5.	Manganese.	Not employed	Whilst employed in picking out ore from a dump of rock refuse a workman was severely injured by loose stone sliding down from above. A child accompanying him was buried and killed.
10	6th June, 4 A.M.	Kargali mine, Bokaro P. O., Bihar and Orissa.	Secretary of State for India.	Budhu, (m.), 25, Coal-cutter.	Coal	Not an accident.	A miner was found dead in the underground workings of the mine. Death was ascribed to natural causes. Inspection and inquiry made.
11	8th June.	Pootkee mine, Kununda P. O., Bihar and Orissa	Eastern Coal Co., Ltd.	Kanai Hari, (m.), 38.	Coal	Not employed.	Deceased was found drowned in a shallow pool of water on the surface. Inspection and inquiry made.
12	18th June, 10 A.M.	Ghorawari mine, Junnordeo P. O., Central Provinces.	Hirdagarh Collieries, Ltd.	Chhotelal Amerlal, (m.), 14.	Coal	Not employed.	Deceased was riding on a loaded tub which was being pushed along a surface tramline by two trolleyman. The tub collided with some stationary tubs and deceased was thrown to the ground receiving fatal injuries. Inspection and inquiry made.
13	22nd June, 3 P.M.	Junnordeo No. 2 mine, Junnordeo P. O., Central Provinces.	R. S. H. Verma & M. Kariyalal, Ltd	Jhadoo Mahra s/o Amba, (m.), 24.	Coal	Not employed.	A loaded tub was being pushed along a surface tramway when a young child, who unknown to the trolleyman was playing nearby, was knocked down by the tub and sustained injuries which proved fatal. Inspection and inquiry made.
14	18th July, 12 NOON.	Murwara mine, Katni P. O., Central Provinces.	G. H. Cook & Sons.	Tijish, (f.), 50.	Limestone	Not employed.	Deceased was found drowned in a quarry. Inspection and inquiry made.
15	28th July, 12 NOON.	Tikuri mine, Katni Cement Factory P. O., Central Provinces.	Katni Cement and Industrial Co., Ltd.	Dhirajia Bhui- yan, (f.), 25.	Limestone	Not employed.	A woman was digging for white clay in a spoil heap when a portion of the heap collapsed and buried her. When extricated she was dead. Inspection and inquiry made.
16	26th August, 3-30 P.M.	Datia mine, Junnordeo P. O., Central Provinces	Amalgamated Coal- fields, Ltd.	Lilabhai, (f.), 6.	Coal	Not employed.	A child crawled through a wire fence and fell into a boiler feed water tank containing water 4' 6" deep; she was found drowned. Inspection and inquiry made.

17	28th August, 4-30 P.M.	Jamadoba mine, Jalgora P. O., Bihar and Orissa.	Tata Iron and Steel Co., Ltd.	Gopal Mahato, (m.), 58.	Coal	Not employed.	Deceased climbed the wall, 4 feet high, fencing an air-shaft, 33 feet deep, and was cutting grass inside the fence, when he fell down the shaft. He received internal injuries to which he succumbed a few hours later. Inspection and inquiry made.
18	7th September.	Murnlidib mine, Mohuda P. O., Bihar and Orissa.	Bengal Coal Co., Ltd.	Atul Chandra Sahani, (m.), 26, Register clerk.	Coal	Not a mining accident	Deceased was found drowned in a reservoir containing water 12 feet deep. Inspection and inquiry made.
19	11th September, 8-30 A.M.	Jamuria mine, Charanpur P. O., Bengal.	Equitable Coal Co., Ltd.	Kamala Bilaspur, (f.), 34, Loader.	Coal	An accident under the Indian Railways Act.	Deceased was run over and fatally injured by a light engine at a level crossing on a railway siding. Inspection and inquiry made.
20	9th October, 2 P.M.	Bhuggutdih mine, Jharia P. O., Bihar and Orissa.	Bengal Nagpur Coal Co., Ltd.	Behary Rajwar, (m.), 62, Coal-cutter.	Coal	Not an accident.	Whilst an old and decrepit miner was at work underground he was attacked by illness, and a few hours later he died of heart failure. Inspection and inquiry made.
21	13th October, 7 A.M.	Kustore (Alkusa Section) mine, Kusunda P. O., Bihar and Orissa.	Raneegunge Coal Association, Ltd.	Lerroo Chamar, (m.), 27, Coal-cutter.	Coal	An accident under the Indian Railways Act.	Whilst crossing a broad gauge railway line, deceased was knocked down and fatally injured by an engine pushing a train of two wagons. Inspection and inquiry made.
22	15th November, 7-30 A.M.	Kustore mine, Kusunda P. O., Bihar and Orissa.	Raneegunge Coal Association, Ltd.	Sukor Roy, (m.), 31, Coal-cutter.	Coal	Not a mining accident.	A miner was drowned whilst bathing in a boiler feed water supply tank. The tank was surrounded by a wall more than 3½ feet high and bathing in it was not permitted. A suitable bathing place was provided close by. Inspection and inquiry made.
23	14th December, 2 A.M.	Dhemo Main mine, Sitarampur P. O., Bengal.	Dhemo Main Collieries, Ltd.	Dhaneswar Ghatowal, (m.), 19, Haulage engine driver.	Coal	Not a mining accident.	Whilst sleeping near a fire on the verandah of a dwelling a workman's clothes caught fire. He was severely burnt and subsequently died of his injuries. Inspection and inquiry made.
24	19th December, 5 P.M.	Erkerga Hill mine, Ganwan P. O., Bihar and Orissa.	.....	Sitwa Goar, (m.), 3.	Mica	Not employed.	Whilst stealing mica from an old abandoned pit, a man was buried by a fall of debris and received fatal injuries. Inspection and inquiry made.

Table

Statement of fatal and serious accidents in and about Mines

Province.	District and Mineral field.	FATAL							
		Number of separate fatal accidents.	Number of deaths.						Total.
			Under-ground.		Open workings.		Surface.		
			Males.	Females.	Males.	Females.	Males.	Females.	
Assam	Lakhimpur—M a k u m coalfield.	4	3	...	...	...	1	...	CO 4
	Naga Hills—N a z i r a coalfield.	...	...	...	...	...	...	...	...
Bengal (and part of Bihar and Orissa).	Raniganj coalfield	19	26	15	...	...	17	2	60
Bihar and Orissa	Jharia coalfield	80	67	16	...	...	3	1	87
	Bokaro „	7	4	...	...	3	1	...	7
	Karenpura „	5	5	...	...	...	1	...	6
	Giridih „	4	2	1	...	...	1	...	4
	Hingir Bampur coalfield	..	...	...	...	...	...	...	...
Central Provinces	Chanda	1	1	...	...	...	...	...	1
	Chhindwara—P e n c h Valley coalfield.	14	0	1	...	...	3	1	14
Punjab	Salt Range coalfield	2	2	..	...	...	...	...	2
	Total (Coal)	156	110	33	..	2	27	4	185

DIX II.

No. 2.

regulated by the Indian Mines Act, during the year 1931.

ACCIDENTS.				SERIOUS ACCIDENTS.													
Death rate per 1,000 persons employed.				Number of separate serious accidents.	Number of persons seriously injured.									Serious injury rate per 1,000 persons employed.			
Underground.	Open workings.	Surface.	Underground, Open workings and Surface.		Underground.		Open workings.		Surface.			Underground.	Open workings.	Surface.	Underground, Open workings and Surface.		
					Males.	Females.	Males.	Females.	Males.	Females.	Total.						
AL																	
2.03	...	1.48	1.39	48	30	...	8	...	15	1	49	20.33	4.17	23.67	17.07		
...	...	...	...	8	2	...	...	...	1	...	8	5.21	...	4.17	4.81		
1.18	...	1.32	1.16	76	60	16	1	...	6	3	86	2.09	0.88	0.63	1.66		
1.86	...	0.19	1.29	1.6	139	16	1	...	33	3	192	3.48	0.63	1.67	2.84		
2.25	0.23	0.27	0.50	24	9	...	5	3	5	2	24	5.07	0.94	1.67	1.71		
3.69	...	1.34	1.92	5	1	1	...	...	3	...	5	1.47	...	4.03	1.60		
0.52	...	0.59	0.53	34	25	3	...	...	6	...	34	4.69	...	3.54	4.50		
...	...	...	...	1	1	...	...	...	...	...	1	8.55	...	...	5.72		
0.56	...	...	0.41	2	2	...	...	...	...	...	2	1.11	...	...	0.82		
2.31	...	2.16	2.26	29	18	6	...	...	6	...	30	5.55	...	3.24	4.85		
8.20	...	...	2.03	12	9	...	...	...	4	...	13	14.83	...	10.58	13.20		
1.54	0.15	0.67	1.17	420	296	42	10	3	79	9	439	3.43	0.99	1.91	2.77		

Table

Statement of fatal and serious accidents in and about Mines

Province.	District and Mineral field.	Number of separate fatal accidents.	FATAL							
			Number of deaths.						Total.	
			Under-ground.		Open workings.		Surface.			
Males.	Females.	Males.	Females.	Males.	Females.					
										M ANGA
Bombay . . . . .	.....	...	..	...	...	...	...	...	...	...
Central Provinces . . . . .	.....	...	...	...	...	...	...	...	...	...
Madras . . . . .	.....	...	...	...	...	...	...	...	...	...
	Total (Manganese Ore)	...	...	...	...	...	...	...	...	...
										LEAD
Burma	Northern Shan States .	5	4	...	...	...	1	...	...	5
										TIN AND
Burma . . . . .	.....	12	4	...	11	4	1	...	...	20

DIX II—contd.

No. 2—contd.

regulated by the Indian Mines Act, during the year 1931—contd.

ACCIDENTS.				SERIOUS ACCIDENTS.											
Death rate per 1,000 persons employed.				Number of separate serious accidents.	Number of persons seriously injured.							Serious injury rate per 1,000 persons employed.			
Underground.	Open workings.	Surface.	Underground, Open workings and Surface.		Underground.		Open workings.		Surface.			Underground.	Open workings.	Surface.	Underground, Open workings and Surface.
					Males.	Females.	Males.	Females.	Males.	Females.	Total.				
NESE ORE															
...	9	..	...	5	2	2	...	9	...	7.01	6.80	6.97
...	12	1	..	4	1	5	1	12	1.42	0.70	8.61	1.26
...	1	...	..	1	...	...	...	1	...	1.50	...	1.58
...	22	1	...	10	3	7	1	22	1.42	1.42	3.79	1.84
ORE															
1.21	...	2.07	1.34	89	84	..	...	...	5	...	89	26.01	...	10.35	2.82
WOLFRAM ORE															
2.40	3.70	3.25	3.36	19	1	...	7	...	13	...	21	0.60	1.76	12.21	3.52

Table

Statement of fatal and serious accidents in and about Mines

Province.	District and Mineral field.	Number of separate fatal accidents.	FATAL							
			Number of deaths.						Total.	
			Under-ground.		Open workings.		Surface.			
			Males.	Females.	Males.	Females.	Males.	Females.		
Baluchistan	Zho b District	1	1	...	...	...	...	...	1	CHROMITE
Bihar and Orissa	Singhbhum	2	3	...	...	...	...	...	3	COPPER
Bihar & Orissa	.....	3	1	...	2	...	...	...	3	MI
Madras	.....	...	...	...	...	...	...	...	...
	Total (Mica)	3	1	...	2	...	...	...	3	
Punjab	Salt Range	2	1	...	...	...	1	...	2	SA

DIX II—contd.

No. 2—contd.

regulated by the Indian Mines Act, during the year 1931—contd.

ACCIDENTS.				SERIOUS ACCIDENTS.											
Death rate per 1,000 persons employed.				Number of separate serious accidents.	Number of persons seriously injured.							Serious injury rate per 1,000 persons employed.			
Underground.	Open workings.	Surface.	Underground, Open workings and Surface.		Underground.		Open workings.		Surface.		Total.	Underground.	Open workings.	Surface.	Underground, Open workings and Surface.
					Males.	Females.	Males.	Females.	Males.	Females.					
ORE															
22-22	...	...	5.13	...	...	...	...	...	...	...	...	...	...	...	...
ORE															
2-36	...	...	1.71	...	...	...	...	...	...	...	...	...	...	...	...
CA															
0-14	0.67	...	0.24	6	6	...	...	...	1	...	7	0.82	...	0.57	0.58
...	...	...	...	1	1	...	...	...	...	...	1	0.99	...	...	0.37
0-12	0.49	...	0.20	7	7	...	...	...	1	...	8	0.83	...	0.40	0.54
LT															
1-03	...	2.65	1.47	15	8	4	...	...	3	...	15	12.35	...	7.94	10.09

DIX II—*contd.*No. 2—*contd.*regulated by the Indian Mines Act, during the year 1931—*contd.*

ACCIDENTS.				SERIOUS ACCIDENTS.											
Death rate per 1,000 persons employed.				Number of separate serious accidents.	Number of persons seriously injured.						Serious injury rate per 1,000 persons employed.				
Underground.	Open workings.	Surface.	Underground. Open workings and Surface.		Underground.		Open workings.		Surface.		Total.	Underground.	Open workings.	Surface.	Underground. Open workings and Surface.
					Males.	Females.	Males.	Females.	Males.	Females.					
STONE															
...	...	...	...	4	...	...	4	...	...	...	4	...	27.97	...	27.97
...	0.30	1.71	0.51	1	...	...	...	...	1	...	1	...	...	1.71	0.25
...	1.96	...	0.92	5	...	...	3	...	2	...	5	...	5.89	8.47	4.61
...	0.34	0.69	0.41	10	...	...	7	...	3	...	10	...	1.19	2.07	1.37
NE															
...	0.85	...	0.51	2	...	...	2	...	...	...	2	...	0.85	...	0.51
...	...	2.30	0.40	3	...	...	1	1	1	...	3	...	0.96	2.30	1.20
...	...	...	...	4	...	...	4	...	...	...	4	...	1.63	...	1.57

Table
Statement of fatal and serious accidents in and about Mines

Province.	District and Mineral field.	Number of separate fatal accidents.	FATAL							Total.	
			Number of deaths.								
			Under-ground.		Open workings.		Surface.				
			Males.	Females.	Males.	Females.	Males.	Females.			
United Provinces	.....	1	...	...	1	...	...	...	...	1	STO
	Total (Stone)	4	...	...	3	...	1	...	...	4	
Madras	.....	1	...	...	1	...	...	...	...	1	BAR
	Grand Total (All minerals).	189	188	38	19	6	31	5	...	227	

DIX II—*contd.*No. 2—*concl.*regulated by the Indian Mines Act, during the year 1931—*concl.*

ACCIDENTS.					SERIOUS ACCIDENTS.										
Death rate per 1,000 persons employed.				Number of separate serious accidents.	Number of persons seriously injured.							Serious injury rate per 1,000 persons employed.			
Underground.	Open workings.	Surface.	Underground, Open workings and Surface.		Underground.		Open workings.		Surface.		Total.	Underground.	Open workings.	Surface.	Underground, Open workings and Surface.
					Males.	Females.	Males.	Females.	Males.	Females.					
NE—<i>contd.</i>															
...	1.08	...	0.67	...	...	...	...	...	...	...	...	...	...	...
..	0.29	0.27	0.29	9	7	1	1	...	9	...	0.73	0.27	0.64
YTES															
...	10.53	...	6.71	...	...	...	...	...	...	...	...	...	...	...
1.43	0.46	0.60	0.98	591	397	46	41	7	113	10	618	3.83	0.87	2.03	2.66

APPENDIX II—concl'd.

Table No. 3.

Statement of fatal accidents in Mines regulated by the Indian Mines Act, during the year 1931, classified according to cause of accident.

Mineral worked.	Number of separate fatal accidents.	Number of persons killed.											Death rate per 1,000 persons employed.					
		Explosions and ignitions of fire-damp.	Falls of roof.	Falls of side.	In shafts.	Suffocation by gases.	By explosives.	Eruptions of water.	Haulage.	Underground machinery.	Miscellaneous underground.	Surface.	Electricity.	Total deaths.	Underground.	Open workings.	Surface.	Underground, Open workings and Surface.
Coal . . .	158	...	57	38	7	...	20	2	82	1	9	18	1	185	1.54	0.15	0.67	1.17
Lead Silver . . .	5	...	2	1	...	...	...	...	...	1	1	...	5	1.24	...	2.07	1.34
Tin and Wolfram Ore.	12	...	3	15	...	...	...	...	...	1	1	...	20	2.40	3.76	3.25	3.36
Chromite Ore	1	...	...	...	...	1	...	...	...	...	...	...	1	22.23	...	...	5.13
Copper Ore . . .	2	...	3	...	...	...	...	...	...	...	...	...	3	2.36	...	...	1.71
Mica . . .	3	...	...	2	1	...	...	...	...	...	...	...	3	0.12	0.49	...	0.20
Salt . . .	2	...	...	...	...	...	...	...	...	1	1	...	2	1.03	...	2.65	1.47
Limestone . . .	3	...	...	1	...	1	...	...	...	...	1	...	3	...	0.34	0.69	0.41
Stone . . .	4	...	...	3	...	...	...	...	...	...	1	...	4	...	0.29	0.27	0.29
Barytes . . .	1	...	...	1	...	...	...	...	...	...	...	...	1	...	10.53	...	6.71
Total 1931 . . .	189	...	65	61	8	...	22	2	82	1	12	23	1	227	1.43	0.46	0.60	0.96
Total of preceding year.	217	12	50	68	10	6	26	5	89	1	14	23	3	257	1.48	0.64	0.47	0.96
Difference . . .	-28	-12	+15	-7	-2	-6	-4	-3	-7	...	-2	...	-2	-30	-0.05	-0.18	+0.13	...

APPENDIX III

Statement of prosecutions under the Indian Mines Act, and Indian Penal Code, during the year 1931.

Province.	District.	Number of prosecutions.	Number of persons prosecuted.	Number of persons convicted.	Number of Regulations, and Rules and Sections of the Act contravened.	REMARKS.
Assam	Lakhmipur	1	2	2	Sections 39 and 40 of the Indian Mines Act, 1923.	
	Burdwan	1	2	2	Sections 28 (1) and (2) of the Indian Mines Act, 1923, and Regulation 149 of the Indian Coal Mines Regulations, 1926, read with Bye-law 95 made under Section 32 of the Indian Mines Act, 1923.	
	Do.	1	1	1	Section 15 of the Indian Mines Act, 1923, read with Regulation 23 of the Indian Coal Mines Regulations, 1926.	
	Do.	1	3	3	Section 15 of the Indian Mines Act, 1923 read with regulations 23 and 24 of the Indian Coal Mines Regulations, 1926.	
Bengal	Do.	1	1	...	Regulation 17 of the Indian Coal Mines Regulations, 1926.	Case dropped as accused could not be traced.
	Do.	1	2	2	Sections 28 (1) and (2) of the Indian Mines Act, 1923, and Regulation 149 of the Indian Coal Mines Regulations, 1926, read with Bye-law 95 made under Section 32 of the Indian Mines Act, 1923.	
	Do.	1	1	1	Sections 23 (1) (d), 23-A and 23 (2), read with Section 23-B of the Indian Mines Act, 1923.	
	Do.	1	1	1	Sections 28 (1) and (2) of the Indian Mines Act, 1923, and Regulation 149 of the Indian Coal Mines Regulations, 1926.	

APPENDIX III—*contd.*

Statement of prosecutions under the Indian Mines Act, and Indian Penal Code, during the year 1931—*contd.*

Province.	District.	Number of prosecutions.	Number of persons prosecuted.	Number of persons convicted.	Number of Regulations and Rules and Sections of the Act contravened.	REMARKS.
Bengal— <i>contd.</i>	Burdwan	1	2	2	Rule 18 made by the Bengal Government under Section 30 of the Indian Mines Act, 1923.	
	Do.	1	3	1	Section 286 of the Indian Penal Code.	Two of the accused were acquitted.
	Do.	1	1	1	Regulation 13 of the Indian Coal Mines Regulations, 1926.	
	Do.	1	1	...	Regulations 103 and 121 of the Indian Coal Mines Regulations, 1926.	Acquitted.
	Do.	1	2	2	Sections 28 (1) and (2) of the Indian Mines Act, 1923, and Regulation 149 of the Indian Coal Mines Regulations, 1926, read with Bye-law 95 made under Section 32 of the Indian Mines Act, 1923.	
	Do.	1	3	2	Sections 23-A and 28(2) of the Indian Mines Act, 1923, read with Rules 9-B and 23 made by the Bengal Government under Section 30 of the Indian Mines Act, 1923, and Regulation 25 of the Indian Coal Mines Regulations, 1926, read with Bye law 31 made under Section 32 of the Indian Mines Act, 1923.	Case against one of the accused was dropped as he could not be traced.
	Do.	1	1	1	Bye-law 82 made under Section 32 of the Indian Mines Act, 1923.	
	Do.	1	1	1	Regulations 82, 84 and 148 of the Indian Coal Mines Regulations 1926.	

APPENDIX III—*contd.*

Statement of prosecutions under the Indian Mines Act, and Indian Penal Code, during the year 1931—*contd.*

Province.	District.	Number of prosecutions.	Number of persons prosecuted.	Number of persons convicted.	Number of Regulations and Rules and Sections of the Act contravened.	REMARKS.
Bengal— <i>concl'd.</i>	Burdwan . . .	1	4	...	Regulation 3 (3) of the Indian Coal Mines Regulations, 1926.	All the accused were acquitted.
	Bhagalpur . . .	1	1	...	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	Case dropped.
	Hazaribagh . . .	1	1	1	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	
	Do.	1	1	1	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	
	Manbhum . . .	1	2	2	Section 23-A of the Indian Mines Act, 1923, and Regulation 149 of the Indian Coal Mines Regulations, 1926, read with Rule 9 made by the Bihar and Orissa Government under Section 30 of the Indian Mines Act, 1923.	
Bihar and Orissa.	Do.	1	1	1	Regulations 15 (2), 67 and 138 (1) of the Indian Coal Mines Regulations, 1926.	
	Do.	1	1	1	Bye-law 95 made under Section 32 of the Indian Mines Act, 1923, read with Regulation 149 of the Indian Coal Mines Regulations, 1926.	
	Do.	1	1	1	Rule 18 made by the Bihar and Orissa Government under Section 30 of the Indian Mines Act, 1923.	

APPENDIX III—*contd.*

Statement of prosecutions under the Indian Mines Act, and Indian Penal Code, during the year 1931—*contd.*

Province.	District.	Number of prosecutions.	Number of persons prosecuted.	Number of persons convicted.	Number of Regulations and Rules and Sections of the Act contravened.	REMARKS.
Bihar and Orissa— <i>contd.</i>	Manbhum . . .	1	2	2	Section 29 (f) of the Indian Mines Act, 1923, read with the Government of India Notification No. M-1055, dated 7th March 1929, and Regulation 53 (1) of the Indian Coal Mines Regulations, 1926, and Rule 9 made by the Bihar and Orissa Government under Section 30 of the Indian Mines Act, 1923, read with Regulation 149 of the Indian Coal Mines Regulations, 1926.	
	Do.	1	2	1	Regulations 137 (1), 137 (2) and 138 (1) of the Indian Coal Mines Regulations, 1926.	One of the accused was acquitted.
	Do.	1	3	3	Regulations 67, 69 (1) and 69 (2) of the Indian Coal Mines Regulations, 1926, and Bye-law 42 made under Section 32 of the Indian Mines Act, 1923.	
	Do.	1	2	2	Regulation 76 (1) of the Indian Coal Mines Regulations, 1926.	
	Do.	1	1	1	Rule 96 of the Indian Electricity Rules, 1922.	
	Do.	1	1	1	Section 15 of the Indian Mines Act, 1923, and Regulations 69, 71 (1) and 71 (2) of the Indian Coal Mines Regulations, 1926.	
	Do.	1	2	2	Section 29-A of the Indian Mines Act, 1923, read with Regulation 149 of the Indian Coal Mines Regulations, 1926, and Rule 9 made by the Bihar and Orissa Government under Section 30 of the Indian Mines Act, 1923.	

APPENDIX III—*contd.*

Statement of prosecutions under the Indian Mines Act, and Indian Penal Code, during the year 1931—*contd.*

Province.	District.	Number of prosecutions.	Number of persons prosecuted.	Number of persons convicted.	Number of Regulations, and Rules and Sections of the Act contravened.	REMARKS.
Bihar and Orissa— <i>contd.</i>	Manbhum . . .	1	1	...	Rule 17 made by the Bihar and Orissa Government under Section 30 of the Indian Mines Act, 1923.	Acquitted.
	Do.	1	1	1	Regulation 95 of the Indian Coal Mines Regulations, 1926.	
	Do.	1	1	1	Regulation 143 of the Indian Coal Mines Regulations, 1926, read with Bye-law 86 made under Section 32 of the Indian Mines Act, 1923.	
	Do.	1	1	1	Bye-law 8 made under Section 32 of the Indian Mines Act, 1923.	
	Do.	1	1	1	Bye-law 77 made under Section 32 of the Indian Mines Act, 1923.	
	Do.	1	6	3	Regulations 72, 83 and 84 of the Indian Coal Mines Regulations, 1926, and Bye-law 8 made under Section 32 of the Indian Mines Act, 1923.	Three of the accused were acquitted.
	Do.	1	1	1	Regulation 3 (3) of the Indian Coal Mines Regulations, 1926.	
	Do.	1	1	1	Regulation 3 (2) of the Indian Coal Mines Regulations, 1926.	
	Do.	1	1	1	Regulation 3 (2) of the Indian Coal Mines Regulations, 1926.	
	Singhbhum . . .	1	3	2	Regulations 38 and 86 (1) of the Indian Metalliferous Mines Regulations, 1916, and Rule 9 made by the Bihar and Orissa Government under Section 30 of the Indian Mines Act, 1923.	One of the accused was acquitted.

APPENDIX III—*contd.*

Statement of prosecutions under the Indian Mines Act, and Indian Penal Code, during the year 1931—*contd.*

Province.	District.	Number of prosecutions.	Number of persons prosecuted.	Number of persons convicted.	Number of Regulations and Rules and Sections of the Act contravened.	REMARKS.
Bihar and Orissa— <i>concd.</i>	Singbhum	1	1	1	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	
	Do.	1	1	1	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	
	Santhal Parganas.	1	1	...	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	Case dropped.
	Do.	1	1	...	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	Case dropped.
	Do.	1	2	1	Section 20 of the Indian Mines Act, 1923, and Regulation 13 of the Indian Metalliferous Mines Regulations, 1926.	One of the accused was acquitted.
Bombay	Surat	1	1	1	Regulations 20, 43, 71 and 72 of the Indian Metalliferous Mines Regulations, 1926, and Rule 19 made by the Bombay Government under Section 30 of the Indian Mines Act, 1923.	
Barma	Kyankse	1	1	1	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	
	Mergui	1	1	1	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	
	Do.	1	1	1	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	
	Do.	1	1	...	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	Acquitted.
	Tavoy	1	3	3	Sections 379 and 511 of the Indian Penal Code.	

APPENDIX III—*contd.*

Statement of prosecutions under the Indian Mines Act, and Indian Penal Code, during the year 1931—*contd.*

Province.	District.	Number of prosecutions.	Number of persons prosecuted.	Number of persons convicted.	Number of Regulations and Rules and Sections of the Act contravened.	REMARKS.
Burma— <i>contd.</i>	Tavoy . . .	1	1	...	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	Case dropped.
	Do. . . .	1	1	1	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	
	Do. . . .	1	1	1	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	
	Chhindwara . .	1	4	2	Sections 23 (1) (d), 23-A and 28 of the Indian Mines Act, 1923, read with Regulation 149 of the Indian Coal Mines Regulations, 1926, and Rule 23-A made by the Central Provinces Government under Section 30 of the Indian Mines Act, 1923.	Two of the accused were acquitted.
Central Provinces.	Do. . . .	1	2	2	Regulation 17 of the Indian Coal Mines Regulations, 1926.	
	Do. . . .	1	2	...	Regulation 95 of the Indian Coal Mines Regulations, 1926.	Both the accused were acquitted.
	Do. . . .	1	1	1	Regulations 144 and 146 of the Indian Coal Mines Regulations, 1926, read with Bye-laws 108 and 101 made under Section 32 of the Indian Mines Act, 1923.	
	Do. . . .	1	1	1	Regulation 144 of the Indian Coal Mines Regulations, 1926.	
	Do. . . .	1	1	...	Bye-law 14 made under Section 32 of the Indian Mines Act, 1923.	Acquitted.
	Nellore . . .	1	1	1	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	
Madras . . .	Do. . . .	1	1	1	Section 15 (2) of the Indian Mines Act, 1923.	

APPENDIX III—*concl'd.*

Statement of prosecutions under the Indian Mines Act, and Indian Penal Code, during the year 1931—*concl'd.*

Province.	District.	Number of prosecutions.	Number of persons prosecuted.	Number of persons convicted.	Number of Regulations and Rules and Sections of the Act contravened.	REMARKS.
Madras	Nellore . . .	1	1	...	Rule 15 made by the Madras Government under Section 30 of the Indian Mines Act, 1923.	Case dropped.
	Do.	1	1	1	Rule 15 made by the Madras Government under Section 30 of the Indian Mines Act, 1923.	
	Do.	1	1	...	Rule 15 made by the Madras Government under Section 30 of the Indian Mines Act, 1923.	Acquitted on appeal.
	Do.	1	1	...	Rule 15 made by the Madras Government under Section 30 of the Indian Mines Act, 1923.	Case dropped as accused could not be traced.
Punjab .	Attock . . .	1	1	...	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	Case dropped.
	Jhelum . . .	1	1	...	Section 15 (1) of the Indian Mines Act, 1923, read with Regulation 23 (b) of the Indian Coal Mines Regulations, 1926.	Acquitted.
	Banda	1	1	1	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	
United Provinces.	Hamirpur . .	1	1	1	Regulation 3 (2) of the Indian Metalliferous Mines Regulations, 1926.	
TOTAL		71	107	76		

APPENDIX IV.

Miscellaneous.

Statement No. 1.

LIST OF INSPECTION CIRCLES.

No. 1 Circle.	No. 2 Circle.
1. All mines in Baluchistan.	1. All mines in Assam.
2. All mines in Bihar and Orissa except mines in the District of the Santhal Parganas and such mines in the District of Manbhum as lie east of a line drawn from mile 175 on the Bengal Nagpur Railway to mile 169 on the Grand Trunk Road and continued in a straight line across the District.	2. All mines in Bengal.
3. All mines in the North-West Frontier Province.	3. Such mines in Bihar and Orissa as lie in the District of the Santhal Parganas and in the District of Manbhum east of a line drawn from mile 175 on the Bengal Nagpur Railway to mile 169 on the Grand Trunk Road and continued in a straight line across the District.
4. All mines in the Punjab.	4. All mines in Bombay.
5. All mines in Rajputana.	5. All mines in Burma.
6. All mines in the United Provinces.	6. All mines in the Central Provinces.
	7. All mines in Madras.

Statement No. 2.

Names of persons to whom first and second class coal mine managers' certificates of competency and surveyors' certificates of competency were granted during the year 1931.

Certificates granted to holders of English certificates of competency.

(a) FIRST CLASS.

Name.	Number of Indian certificate.	Date of Indian certificate.	Number of English certificate.	Date of English certificate.
Corbett, Leslie Stuart	355	13th February 1931	2434	24th January 1930.
Atkinson, Frederick Geoffrey	356	Ditto	2188	3rd February 1928.
Peasegood, Thomas Brough	357	27th February 1931	2262	2nd August 1928.
Weir, John Elder	358	Ditto	687	12th February 1921.
Lawley, William James	359	8th April 1931	1979	17th February 1927.
Brown, Robert	360	Ditto	2207	3rd February 1928.
Erakine, George	361	23rd November 1931	2195	Ditto.
Mountford, Thomas Vincent	362	Ditto	2445	24th January 1930.
Panda, Bhabagrahi	363	20th January 1932	2598	24th July 1931.

APPENDIX IV—*contd.***Miscellaneous—*contd.*****Statement No. 2—*contd.***

Names of persons to whom first and second class coal mine managers' certificates of competency and surveyors' certificates of competency were granted during the year 1931—*contd.*

Certificates granted to holders of English certificates of competency—*contd.*

(b) SECOND CLASS.

Name.	Number of Indian certificate.	Date of Indian certificate.	Number of English certificate.	Date of English certificate.
Webb, James William	31	8th April 1931	2932	25th January 1929.

(c) SURVEYORS' CERTIFICATES.

Taylor, William Alexander	1	27th February 1931	3639	18th July 1912.
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Names of persons to whom first and second class coal mine managers' certificates of competency and surveyors' certificates of competency were granted during the year 1931.

INDIAN CERTIFICATES.**(a) FIRST CLASS.**

Name.	No. of certificate.	Date of certificate.	REMARKS.
Dutt, Manindra Nath	208	9th April 1931.	
Banerjee, Santadas	209	Ditto.	
De, Abinash Chandra	210	Ditto.	

APPENDIX IV—*concl'd.*Miscellaneous—*concl'd.*Statement No. 2—*concl'd.*

Names of persons to whom first and second class coal mine managers' certificate of competency and surveyors' certificates of competency were granted during the year 1931—*cont'd.*

INDIAN CERTIFICATES—*cont'd.*

(b) SECOND CLASS.

Name.	No. of certificate.	Date of certificate.	REMARKS.
Master, Eussie	454	9th April 1931.	
Ganguli, Ajit Kumar	455	Ditto.	
Basu, Kamal Krishna	456	Ditto.	
Page, William John	457	Ditto.	
Chatterjee, Bhuban Mohan	458	Ditto.	
Banerjee, Bishnu Pada	459	Ditto.	
Diak, John Henry	460	Ditto.	
Chaudhuri, Phanindra Mohan	461	Ditto.	
Dutta, Kali Das	462	Ditto.	
Ghose, Bhagaban Ram	463	Ditto.	

(c) SURVEYORS' CERTIFICATES.

Kapoor, Bal Krishna	52	20th January 1932.	
Grewal, Sarwan Singh	53	Ditto.	
Sarkar, Amal Krishna	54	Ditto.	
Sarkar, Sachindra Kumar	55	Ditto.	
Roy Barman, Priya Nath	56	Ditto.	
Chakrabarti, Kalish Chandra	57	Ditto.	
Mondal, Dhananjoy	58	Ditto.	
Roy, Mahadeb	59	Ditto.	

Statement No. 3.

ORDER.

No. 583Com.—30th January 1931.—Under rule 3 of the Rules for Coal Mines, framed under section 30 of the Indian Mines Act, 1923, and published under notification No. 4788 Com., dated the 29th August 1924, the Governor in Council is pleased to direct that, on and from the 1st April 1932, urinals and latrine accommodation shall be provided on the surface in every coal mine in accordance with the provisions of rules 3, 4 and 5 of the said rules.

E. N. BLANDY,

Secretary to the Government of Bengal.