



# INDIAN MINES ACT, 1923

## ANNUAL REPORT

OF THE

# CHIEF INSPECTOR OF MINES IN INDIA

FOR THE YEAR ENDING

31st DECEMBER 1929



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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							Total Males and Females.
			Underground.							
			Males.						Females.	
			Overmen and Sidemen.	Coal-cutters.	Loaders.	Other skilled labour.	Other unskilled labour.	Total Males.		
		Tons.							CO	
Assam . . .	Lakhimpur . . .	163,987	83	328	410	278	600	1,715	—	1,715
	Naga Hills . . .	58,568	18	54	56	83	203	444	—	444
	Total . . .	321,545	101	392	496	361	800	2,159	—	2,159
Baluchistan	Quetta-Pishlo . . .	7,831	9	30	46	1	—	86	—	86
	Sibi Khoet . . .	3,163	7	38	29	—	—	74	—	74
	Total . . .	10,994	16	68	75	1	—	160	—	160
Bengal . . .	Bankura . . .	9,379	5	46	17	2	25	97	32	129
	Birbhum . . .	867	2	3	2	—	1	8	1	9
	Burdwan . . .	5,954,868	834	11,519	2,799	3,113	4,301	23,685	6,794	29,339
	Total . . .	6,995,104	841	11,570	2,818	3,114	4,327	23,670	6,827	29,497
Bihar and Orissa.	Manbhum— Raniganj coalfield (part of)	789,836	111	2,082	295	393	947	3,620	1,070	4,690
	Jharia . . .	10,732,366	1,243	16,023	5,023	4,365	5,693	33,180	10,624	44,004
	Hazaribagh— Jharia coalfield (part of)	53,900	0	116	23	20	48	313	60	281
	Bokaro . . .	2,118,703	33	553	146	88	122	941	273	1,314
	Giridih . . .	771,165	237	2,752	1,401	173	924	5,477	1,631	7,108
	Karapura . . . (part of)	467,030	13	426	167	44	50	700	219	919
	Banchi— Karapura coalfield (part of)	97	1	2	1	—	1	6	1	7
	Palamu— Daltonganj coalfield . . .	1,522	—	—	—	—	—	—	—	—
	Hutar . . .	357	2	10	2	3	—	17	3	20
	Carried over . . .	14,934,455	1,680	21,867	7,058	5,068	7,721	44,353	14,000	58,443

## DIX I.

## AND MINERALS.

## No. I.

year 1929 at mines under the Indian Mines Act.

persons employed daily in and about the mines.

Overmen and Sinders.	Open workings.							Total Underground and Open workings.	Surface.						Grand Total.	
	Males.					Females.	Total Males and Females.		Males.				Females.	Total Males and Females.		
	Coal-cutters.	Loaders.	Other skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.				
A.L.																
6	81	105	116	277	647	262	909	2,024	26	167	460	665	164	829	3,463	
...	...	...	...	...	...	...	...	444	14	66	151	231	...	231	676	
6	81	105	116	277	647	262	909	3,068	53	233	611	890	164	1,060	4,128	
...	...	...	...	...	...	...	...	56	...	5	17	22	...	22	108	
...	...	...	...	...	...	...	...	74	1	17	12	30	...	30	104	
...	...	...	...	...	...	...	...	160	1	22	29	52	...	52	312	
1	3	...	...	5	9	7	16	145	17	7	1	25	8	33	178	
...	...	...	...	...	...	...	...	9	...	1	3	4	7	11	30	
8	150	8	42	374	582	617	1,199	30,558	1,500	3,225	5,207	9,951	3,598	13,547	44,106	
9	163	8	42	370	591	624	1,215	30,712	1,536	3,243	5,211	9,980	3,611	13,591	44,308	
10	92	28	25	30	185	85	270	5,160	183	428	989	1,590	505	2,074	7,234	
52	668	68	43	381	1,102	773	1,875	45,879	1,647	4,750	11,121	17,727	6,480	24,210	70,095	
...	...	...	...	...	...	...	...	291	37	25	61	153	71	224	505	
126	3,390	560	120	3,620	6,935	5,620	12,445	19,089	143	610	1,542	2,301	420	2,721	16,300	
3	111	21	4	2	141	134	275	7,383	100	193	1,341	1,639	557	2,196	9,579	
1	467	206	36	466	1,236	432	1,678	2,897	73	179	465	687	192	840	2,466	
...	...	...	...	...	...	...	...	7	3	2	4	9	8	17	24	
1	3	...	...	...	4	3	7	7	...	...	...	...	...	...	7	
...	16	4	1	3	24	...	24	44	3	...	11	13	2	15	69	
193	4,627	947	223	3,452	9,517	7,057	16,574	75,017	2,388	6,217	15,463	24,068	8,264	32,322	107,339	

## STATISTICS OF MINES

**Table**  
Number of workers and output of minerals during the

Province.	District and Mineral field.	Total Output.	Average number of							Total Males and Females.
			Underground.							
			Males.						Females.	
Ore-men and Bladders.	Coal-cutters.	Loaders.	Other skilled labour.	Other unskilled labour.	Total Males.					
Bihar and Orissa— <i>contd.</i>	Brought forward	Tonn. 14,934,455	1,630	22,867	7,058	5,068	7,731	44,353	14,000	CO 58,443
	Sambalpur—Hingir Rampur	36,774	6	43	43	41	...	133	20	101
	Sonthal Parganas—									
	Jainty . . . . .	40,732	13	144	35	45	34	271	24	205
	Raniganj coalfield (part of).	73,113	14	217	...	34	81	340	73	432
	Total	15,086,074	1,673	23,271	7,135	5,199	7,850	45,105	14,216	60,321
Central Provinces.	Chanda . . . . .	202,061	33	661	330	106	374	1,440	158	1,593
	Chhindwara . . . . .	660,370	77	1,746	554	383	330	3,009	679	3,778
	Total	862,331	110	2,437	890	489	613	4,530	837	5,370
Punjab .	Jhelum . . . . .	20,506	35	124	23	33	60	265	...	265
	Mianwall . . . . .	19,064	6	43	35	6	17	107	...	107
	Shahpur . . . . .	3,508	...	17	...	...	...	17	...	17
	Total	43,136	31	184	58	39	77	380	...	369
	Grand Total (Coal) for 1920.	23,309,174	2,771	37,022	11,472	9,193	13,605	75,022	21,950	96,902
	Doitto of preceding year.	21,516,700	2,633	30,100	8,450	8,777	12,360	68,727	28,408	97,135
	Difference	+792,378	+138	+1,463	+3,013	+416	+1,270	+6,295	-6,628	-233

## DIX I—contd.

## AND MINERALS—contd.

## No. I—contd.

year 1929 at mines under the Indian Mines Act—contd.

persons employed daily in and about the mines.

Open workings.								Total Underground and Open workings.	Surface.					Grand Total.	
Males.							Total Males and Females.		Males,				Total Males and Females.		
Overmen and Sidemen.	Coal-cutters.	Loaders.	Other skilled labour.	Other unskilled labour.	Total Males.	Females.			Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.			Females.
AL—contd.															
193	4,627	947	298	3,452	9,517	7,057	16,574	75,017	2,388	6,217	15,463	24,068	8,254	32,322	107,339
...	...	...	...	...	...	...	...	161	...	49	...	49	0	58	319
...	...	...	...	...	...	...	...	305	15	33	70	126	23	140	444
...	...	...	...	...	...	...	...	472	30	48	50	168	24	192	614
193	4,627	947	298	3,452	9,517	7,057	16,574	76,895	2,433	6,346	15,622	24,401	8,320	32,721	108,616
...	...	...	...	...	...	...	...	1,598	53	106	250	400	107	516	2,114
1	...	...	...	10	11	3	13	3,701	91	406	810	1,307	444	1,751	5,452
1	...	...	...	10	11	2	13	5,389	144	512	1,000	1,716	551	2,267	7,656
...	...	...	...	...	...	...	...	265	25	14	143	151	...	181	446
...	...	...	...	...	...	...	...	107	7	4	79	90	0	96	203
2	25	...	...	...	37	...	27	44	4	46	...	50	...	50	94
2	26	...	...	...	27	...	27	416	36	64	321	321	6	327	743
213	4,696	1,120	456	1,118	10,793	7,045	18,788	175,610	4,192	10,420	22,754	37,366	12,652	50,018	165,628
312	5,400	315	435	3,021	9,443	8,019	17,462	114,597	4,009	10,017	21,960	36,097	13,445	49,542	164,139
+1	-574	+605	+31	+1,097	+1,350	-74	+1,276	+1,013	+132	+573	+704	+1,269	-703	+476	+1,519

## 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.					Total Males.	Females.	Total Males and Females.
			Foreign and States	Miners.	Other skilled labour.	Other unskilled labour.				
		Tons.	<b>IRON</b>							
Bihar and Orissa	Singhbhum . . .	1,300,245	...	...	...	...	...	...	...	
Burma . . .	Henzada . . .	...	...	...	...	...	...	...	...	
	Mandalay . . .	...	...	...	...	...	...	...	...	
	Northern Shan States.	46,140	...	...	...	...	...	...	...	
	Total . . .	46,140	...	...	...	...	...	...	...	
			<b>MANGANESE</b>							
	Grand Total (Iron ore) for 1929.	1,436,385	...	...	...	...	...	...	...	
	Grand Total (Iron ore) for preceding year.	1,206,754	4	39	...	81	124	...	124	
	Difference . . .	+ 229,631	-4	-39	...	-81	-124	...	-124	
Bihar and Orissa	Singhbhum . . .	22,698	8	62	21	27	118	142	260	
Bombay . . .	Belgaum . . .	8,666	...	...	...	...	...	...	...	
	North Kanara . . .	6,245	...	...	...	...	...	...	...	
	Panch Mahals . . .	56,326	3	25	2	5	35	...	35	
	Total . . .	71,337	3	25	2	5	35	...	35	

## DIX I—contd.

## AND MINERALS—contd.

## No. I—contd.

## year 1929 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		
<b>ORE.</b>															
153	2,858	331	502	3,844	1,947	5,791	5,791	146	369	931	1,446	682	2,328	8,119	
...	...	...	7	7	...	7	7	...	...	...	...	...	...	7	
...	...	...	...	...	...	...	...	7	5	44	56	...	56	56	
2	...	5	215	222	1	223	223	12	4	294	310	63	373	596	
2	...	5	222	229	1	230	230	10	9	336	346	63	409	659	
155	2,656	336	721	4,073	1,948	6,021	6,021	165	378	1,269	1,812	945	2,757	8,778	
131	2,109	194	975	3,409	1,593	5,002	5,126	209	505	1,777	2,491	530	3,021	8,147	
+24	+749	+142	-251	+684	+355	+1,019	+895	-44	-127	-508	-679	+415	-264	+681	
<b>ORE</b>															
30	271	48	56	405	241	646	946	26	66	201	293	434	727	1,678	
11	241	6	3	251	144	405	405	2	...	...	2	...	2	407	
12	230	8	114	394	226	622	622	14	4	101	119	37	156	778	
78	1,018	32	...	1,128	849	1,977	2,012	30	51	316	397	86	483	2,495	
101	1,489	46	147	1,783	1,221	3,004	3,039	46	65	417	518	123	641	3,680	

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.				Total Males.	Females.	Total Males and Females.
Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.						
			<b>MANGANESE</b>						
Central Provinces		Tons.							
	Balaghat . . .	263,105	20	396	5	115	536	171	710
	Bhandara . . .	156,525	...	...	...	...	...	...	...
	Chhindwara . . .	29,814	4	39	24	6	72	...	72
	Nagpur . . .	172,461	9	105	6	3	123	11	134
	<b>Total</b>	<b>621,905</b>	<b>33</b>	<b>540</b>	<b>35</b>	<b>121</b>	<b>731</b>	<b>165</b>	<b>916</b>
Madras . . .	Bellary . . .	10,575	...	...	...	...	...	...	...
	Kurnool . . .	...	...	...	...	...	...	...	...
	Vizagapatam . . .	24,533	...	...	...	...	...	...	...
		<b>Total</b>	<b>35,068</b>	...	...	...	...	...	...
	Grand Total (Manganese ore) for 1929.	750,908	44	627	58	155	884	327	1,211
	Grand Total (Manganese ore) for preceding year.	716,626	44	690	48	206	968	207	1,195
	Difference . . .	+34,282	...	-63	+10	-51	-104	+120	+16



I—contd.

## AND MINERALS—contd.

No. I—contd.

the year 1929 at mines under the Indian Mines Act—contd.

daily in and about the mines.														
Open workings.							Total Underground and Open workings.	Surface.						Grand Total.
Foremen and Mates.	Males.				Females.	Total Males and Females.		Males.				Females.	Total Males and Females.	
	Minors.	Other skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.			
<b>ORE—contd.</b>														
170	3,139	71	238	3,616	3,276	6,894	7,604	102	88	677	862	727	1,580	9,193
123	1,428	81	102	1,735	1,554	3,289	3,289	33	32	201	260	195	451	3,740
13	109	11	6	139	70	209	281	8	29	98	135	87	222	508
145	2,614	78	142	2,979	3,628	5,607	5,741	55	85	601	741	456	1,197	6,936
451	7,290	241	459	8,471	7,528	15,999	16,915	198	229	1,577	2,004	1,455	3,459	20,374
13	36	11	35	95	47	142	142	16	17	30	68	24	87	229
...	...	...	9	9	...	9	9	...	...	...	...	...	...	9
22	703	7	15	747	341	1,088	1,088	8	37	142	187	3	190	1,278
35	739	18	59	851	368	1,239	1,239	24	54	172	250	27	277	1,516
617	9,789	353	751	11,510	9,416	20,926	22,139	294	404	2,367	3,065	2,039	5,104	27,243
654	10,760	322	676	12,442	10,789	23,231	24,426	303	409	2,655	3,367	1,802	5,169	29,595
-67	-971	+81	+75	-832	-1,971	-2,303	-2,287	-9	-5	-268	-302	+237	-65	-2,952

**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.		
Burma .	Northern States. Shan	Tons. 463,972*	119	2,500	260	2,049	4,928	...	<b>LEAD</b> 4,928
	Southern States. Shan	719	19	171	25	7	222	...	222
	Grand Total (Lead ore), for 1929.	464,691	138	2,671	285	2,056	5,150	...	5,150
	Grand Total (Lead ore) of preceding year.	443,054	141	2,673	264	1,448	4,526	...	4,526
	Difference . . .	+21,037	-3	-2	+21	+608	+624	...	+624
Burma . . .	Northern States. Shan	Tons. 1,200							<b>ANTIMONIAL</b> Figures
	Total of preceding year.	1,241	...	...	...	...	...	...	...
	Difference . . .	-41	...	...	...	...	...	...	...

\*79,033 tons of refined

DIX I—*contd.*AND MINERALS—*contd.*No. I—*contd.*year 1929 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 super- vising staff.	Skilled labour.	Unskilled labour.	Total Males.			
<b>ORE.</b>														
1	...	...	58	59	...	59	4,987	56	204	517	777	...	777	5,764
...	...	...	...	..	...	...	222	5	24	35	64	7	71	293
1	...	...	58	59	...	59	5,209	61	228	552	841	7	848	6,057
1	...	...	59	60	...	60	4,566	133	159	501	793	5	798	5,364
...	...	...	-1	-1	...	-1	+623	-72	+69	+51	+48	+2	+50	+673
<b>LEAD.</b>														
with those for Lead ore.														
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Lead extracted

**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.	Ounces. 7,280,517							SIL
	Total of preceding year.	7,404,728	...	...	...	...	...	...	Figures included
	Difference . . .	-124,211	...	...	...	...	...	...	
Bihar and Orissa	Singhbhum . . .	Ounces. 30	...	4	...	...	4	...	GO
	Total of preceding year.	7	...	4	...	2	6	...	6
	Difference . . .	+23	...	...	...	-2	-2	...	-2

## DIX I—contd.

## AND MINERALS—contd.

## No. I—contd.

year 1929 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.				
<b>VER.</b>																			
with those for Lead ore.																			
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>LD.</b>																			
	...	...	...	...	...	...	...	4	...	...	6	6	2	2	2	2	2	2	2
	...	...	...	...	...	...	...	6	...	1	3	4	3	7	7	7	7	7	12
	...	...	...	...	...	...	...	-2	...	-1	+3	+2	-1	+1	-1	+1	-1	-1	-1



DIX I—*contd.*AND MINERALS—*contd.*No. I—*contd.*year 1929 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 super- vising staff.	Skilled labour.	Unskilled labour.	Total Males.			
<b>ORE.</b>														
2	...	77	69	148	...	148	163	6	11	...	17	...	17	189
26	1,214	602	516	2,358	11	2,369	2,392	97	10	108	215	...	215	2,607
24	1,820	477	1,163	3,484	99	3,583	5,213	114	82	335	531	4	535	5,748
1	...	5	5	11	28	39	55	...	8	...	3	...	3	58
58	3,034	1,161	1,753	6,001	188	6,139	7,823	217	106	443	766	4	770	8,593
103	2,997	964	1,915	5,979	163	6,142	6,732	142	291	483	916	...	916	7,648
-30	+37	+197	-162	+22	-25	-3	+1,091	+75	-185	-40	-150	+4	-146	+945
<b>ORE.</b>														
with those for Tin Ore.														
Ditto	Ditto	Ditto	Ditto	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>ORE.</b>														
8	64	...	...	72	...	72	163	8	...	57	60	...	60	243
8	64	...	...	72	...	72	163	3	...	57	60	...	60	243

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.					Total Males.	Females.	Total Males and Females.
			Foremen and Mistee.	Miners.	Other skilled labour.	Other unskilled labour.				
Bihar and Orissa	Brought forward . . .	17,905 Tons. 3,149	7	104	...	...	111	<b>CHROMITE</b>		
	Singhbhum . . .	...	...	...	...	...	...	...	111	
	Grand Total (Chromite Ore) for 1929.	21,054	7	104	...	...	111	...	111	
	Grand Total (Chromite Ore) of preceding year.	17,167	5	30	...	...	35	...	35	
	Difference . . .	+3,887	+2	+74	...	...	+76	...	+76	
Bihar and Orissa	Singhbhum . . .	Tons. 76,831	3	8	43	104	158	...	<b>COPPER</b> 158	
Burma . . .	Henzada . . .	...	...	...	...	...	...	...	...	
	Grand Total (Copper Ore) for 1929.	76,831	3	8	43	104	158	...	158	
	Grand Total (Copper Ore) of preceding year.	15,055	4	50	13	42	109	...	109	
	Difference . . .	+58,776	-1	-42	+30	+62	+49	...	+49	



DIX I—*contd.*AND MINERALS—*contd.*No. I—*contd.*year 1929 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.	Minors.	Other skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.			
ORE— 8	<i>contd.</i> 64	...	...	72	...	72	183	3	...	57	60	...	60	243
29	196	52	37	314	310	624	624	12	18	...	80	25	55	670
37	260	52	87	366	310	696	807	15	18	57	90	25	115	922
26	310	26	32	296	225	521	556	15	52	6	73	18	91	647
+11	+50	+24	+5	+90	+85	+175	+251	...	-34	+51	+17	+7	+24	+375
ORE.														
...	...	...	...	...	...	...	158	11	85	121	217	66	283	441
...	...	...	7	7	...	7	7	...	...	...	...	...	...	7
...	...	...	7	7	...	7	165	11	85	121	217	66	283	445
1	...	6	24	33	..	33	142	15	201	212	428	88	516	658
-1	...	-8	-17	-26	...	-26	+23	-4	-116	-91	-211	-22	-233	-210

## 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.					Total Males.	Females.	Total Males and Females.
			Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.				
Burma . . .	Northern Shan States.	Tons. 11,303						<b>COPPER</b> Figures included		
	Total of preceding year.	10,978	...	...	...	...	...	...	...	
	Difference . . .	+325	...	...	...	...	...	...	...	
Burma . . .	Northern Shan States.	Tons. 3,065						<b>NICKEL</b> Figures included		
	Total of preceding year.	2,899	...	...	...	...	...	...	...	
	Difference . . .	+166	...	...	...	...	...	...	...	
Burma . . .	Northern Shan States.	Tons. 58,435						<b>ZINC CON</b> Figures included		
	Total of preceding year.	64,122	...	...	...	...	...	...	...	
	Difference.	- 5,687	...	...	...	...	...	...	...	
Burma . . .	Katha { Rubies. Sapphires Spinles	Carats. 37,640	}	}	}	}	}	}	}	<b>GE</b>
		2,530								
		3,460								

DIX I—contd.

AND MINERALS—contd.

No. I—contd.

year 1929 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 Males.	Minors.	Other skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.					
<b>MATTE.</b>																
with those for lead ore.																
...	...	...	...	...	...	...	..	..	..	..	..	..	..	..	..	
...	...	...	...	...	...	...	..	..	..	..	..	..	..	..	..	
<b>SPEISS</b>																
with those for lead ore.																
...	...	..	...	...	...	...	..	..	..	..	..	..	..	..	..	
...	...	...	...	...	...	...	..	..	..	..	..	..	..	..	..	
<b>CENTRATES.</b>																
with those for lead ore.																
...	...	...	...	...	...	...	..	..	..	..	..	..	..	..	..	
...	...	...	...	...	...	...	..	..	..	..	..	..	..	..	..	
<b>MS.</b>																
1	3	32	157	193	..	193	193	7	61	130	201	...	201	394		

## 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.						
			Foremen and Mates.	Miners.	Males.		Total Males.	Females.	Total Males and Females.
Other skilled labour.	Other unskilled labour.								
		Cwt.							MT
Bihar and Orissa.	Gaya . . . . .	7,328	67	787	297	217	1,368	169	1,537
	Hazaribagh . . . . .	31,545	361	4,222	451	559	5,593	724	6,317
	Monghyr . . . . .	278	13	58	88	89	148	...	148
	Sonthal Pargannas . . . . .	10	...	...	...	...	...	...	...
	Total . . . . .	39,161	441	5,067	786	815	7,109	893	8,002
Madras	Nellore . . . . .	9,904	77	555	254	378	1,264	583	1,847
	Nilgiris . . . . .	91	1	6	2	7	16	5	21
	Total . . . . .	9,995	78	561	256	385	1,280	588	1,868
Rajputana	Ajmer-Merwara . . . . .	281	18	94	8	7	127	2	129
	Grand Total (Mica) for 1929.	49,437	537	5,722	1,050	1,207	8,516	1,483	9,999
	Grand Total Mica of preceding year.	44,629	683	7,244	710	1,257	9,894	2,077	12,971
	Difference . . . . .	+4,808	-146	-1,522	+340	-50	-1,378	-1,194	-2,972

## DIX I—contd.

## AND MINERALS—contd.

## No. I—contd.

year 1929 at mines under the Indian Mines Act—contd.

daily in and about the mines.

F o r e m e n and M a t e s.	Open workings.					F e m a l e s.	T o t a l M a l e s and F e m a l e s.	T o t a l U n d e r g r o u n d and O p e n w o r k i n g s.	S u r f a c e.					F e m a l e s.	T o t a l M a l e s and F e m a l e s.	G r a n d T o t a l.
	M a l e s.								M a l e s.							
	M i n e 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.	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.					
CA.																
39	244	132	281	657	202	859	2,435	89	52	143	284	12	296	2,731		
66	902	24	54	1,106	139	1,245	7,562	203	228	431	1,074	397	1,471	9,033		
3	19	2	23	47	11	58	296	16	5	14	35	20	55	261		
2	4	3	2	11	3	14	14	1	1	1	3	2	5	19		
110	1,220	161	300	1,880	355	2,235	10,217	309	486	601	1,396	431	1,827	12,044		
39	229	161	179	608	602	1,210	3,057	96	222	248	566	521	1,087	4,144		
...	...	...	...	...	...	...	21	1	4	5	10	1	11	22		
39	229	161	179	608	602	1,210	3,078	97	226	253	576	522	1,098	4,176		
10	84	15	...	109	48	157	236	15	33	...	48	1	49	335		
159	1,542	337	539	2,577	1,005	3,582	13,581	421	745	854	2,020	954	2,974	16,555		
160	1,775	284	348	2,567	801	3,368	15,939	388	547	708	1,643	655	2,298	18,237		
-1	-233	+53	+191	+10	+204	+214	-2,358	+33	+126	+146	+377	+289	-673	1,000		

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 Blasers.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.		
Punjab . . .	Jhelum . . .	Tons. 112,616	35	448	37	55	575	271	846
	Mianwali . . .	16,193	..	21	55	..	76	..	76
	Shabpur . . .	19,687	1	76	13	..	90	62	152
	Grand Total (Salt) for 1929.	149,496	36	545	105	55	741	333	1,074
	Grand Total Salt of preceding year.	145,543	36	391	109	84	610	361	971
	Difference . . .	+2,953	+10	+154	-4	-29	+131	-28	+103
Madras . . .	Salem . . .	Tons. 22,134	..	..	..	..	..	..	MAGNE
	Total of preceding year.	22,542	..	..	..	..	..	..	..
	Difference . . .	-408	..	..	..	..	..	..	..
Bombay . . .	Kaira . . .	Tons. 9,044	..	..	..	..	..	..	SAU
	Total of preceding year.	11,167	..	..	..	..	..	..	..
	Difference . . .	-2,123	..	..	..	..	..	..	..

## DIX I—contd.

## AND MINERALS—contd.

## No. I—contd.

year 1929 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 super- vising staff.	Skilled labour.	Unskilled labour.	Total Males.			
LT. 1	9	...	...	10	...	10	856	1	48	352	401	1	402	1,258
...	...	...	...	...	...	...	76	...	...	74	74	...	74	150
...	...	...	...	...	...	...	153	...	8	89	47	1	47	199
1	9	...	...	10	...	10	1,084	1	56	465	522	1	523	1,607
1	15	...	...	16	...	16	987	1	109	490	340	1	341	1,528
...	-6	...	...	-6	...	-6	+97	...	-58	+35	-18	...	-18	+79
SITE. 55	490	...	226	771	506	1,277	1,277	15	115	5	185	22	157	1,434
46	512	...	314	872	600	1,472	1,472	14	121	16	151	12	163	1,635
+9	-22	...	-68	-101	-94	-195	-195	+1	-6	-11	-16	+10	-6	-201
XITE. 5	97	3	...	105	76	181	181	...	2	10	12	2	14	195
4	97	2	...	103	79	182	182	1	3	21	25	5	30	212
+1	...	+1	...	+2	-3	-1	-1	-1	-1	-11	-13	-3	-16	-17





DIX I—*contd.*AND MINERALS—*contd.*No. I—*contd.*year 1929 at mines under the Indian Mines Act—*contd.*

daily in and about the mines.

TITLE.	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.			
11	48	...	3	62	74	136	217	13	10	4	27	...	27	244
5	23	20	44	92	70	162	178	2	2	2	12	36	48	226
...	...	15	...	15	...	15	15	1	...	...	1	...	1	16
...	...	78	99	177	...	177	478	...	25	...	25	...	25	503
16	71	113	146	346	144	490	888	16	37	12	65	36	101	989
5	19	111	96	231	64	295	753	8	6	19	33	4	37	790
+11	+52	+2	+50	+115	+80	+195	+135	+8	+31	-7	+32	+32	+64	+100
TE. 12	65	78	68	223	50	273	273	9	2	2	13	...	13	266



## DIX I—contd.

## AND MINERALS—contd.

## No. I—contd.

year 1929 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.			
TE—contd.														
2	20	25	14	61	...	61	83	1	...	8	4	...	4	87
36	60	70	14	180	...	180	216	...	...	...	...	...	...	216
38	80	95	28	241	...	241	299	1	...	3	4	...	4	303
50	145	173	96	464	50	514	572	10	2	5	17	...	17	589
28	183	153	88	447	39	486	529	2	1	7	10	...	10	539
+ 27	- 38	+ 20	+ 6	+ 17	+ 11	+ 28	+ 43	+ 8	+ 1	- 2	+ 7	...	+ 7	+ 50
STONE.														
90	302	60	371	823	194	1,017	1,017	79	86	156	321	24	345	1,362
4	100	11	345	460	...	460	460	1	2	4	7	...	7	467
5	80	24	24	133	42	175	175	1	2	2	5	...	5	180
2	...	2	108	202	...	202	202	...	...	...	...	...	...	202
7	80	20	223	335	42	377	377	1	2	2	5	...	5	382
12	212	...	...	234	103	327	327	9	18	68	95	30	125	452
71	539	68	482	1,160	1,935	3,115	3,115	26	65	170	261	377	638	3,753
...	185	...	...	135	88	223	223	8	...	43	51	25	76	299
4	...	...	36	40	14	54	54	1	...	9	10	...	10	64
87	886	68	518	1,539	2,160	3,719	3,719	44	88	290	417	432	849	4,563

## 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.				Total Males.	Females.	Total Males and Females.
			Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.			
Punjab	Attock . . . . .	Tons. 196,587	...	...	...	...	...	...	<b>LIME</b>
	Jhelum . . . . .	74,248	...	...	...	...	...	...	
	Mianwali . . . . .	267	...	...	...	...	...	...	
	Rawalpindi . . . . .	88,000	...	...	...	...	...	...	
	Total . . . . .	359,082	...	...	...	...	...	...	
	Grand Total (Limestone) for 1929 Grand Total of preceding year.	1,313,647 1,404,578	...	...	...	...	...	...	
Difference . . . . .	-90,931	...	-3	...	-3	-6	-1	-7	
Bengal . . . . .	Birbhum . . . . .	Tons. 100,200	...	...	...	...	...	...	<b>STONE (CHIEFLY IGNEOUS)</b>
Bihar and Orissa.	Sambalpur . . . . .	4,480	...	...	...	...	...	...	
	Southal Parganae . . . . .	245,475	...	...	...	...	...	...	
	Shahabad . . . . .	8,130	...	...	...	...	...	...	
	Singbhum . . . . .	84,615	...	...	...	...	...	...	
	Gaya . . . . .	68,467	...	...	...	...	...	...	
Total . . . . .	412,067	...	...	...	...	...	...		
Bombay	Bombay . . . . .	67,900	...	...	...	...	...	...	
	Bombay Suburban . . . . .	39,090	...	...	...	...	...	...	
	Hyderabad . . . . .	10,126	...	...	...	...	...	...	
	Karachi . . . . .	46,685	...	...	...	...	...	...	
	Sukkur . . . . .	403,912	...	...	...	...	...	...	
	Surat . . . . .	31,170	...	...	...	...	...	...	
Total . . . . .	623,441	...	...	...	...	...	...		

## DIX I—contd.

## AND MINERALS—contd.

## No. I—contd.

year 1929 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.									
Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.		Clerical and supervising staff.			Skilled labour.	Unskilled labour.	Total Males.	Females.	Total Males and Females.		
<b>STONE—contd.</b>															
51	119	...	538	708	...	708	708	18	25	422	465	9	474	1,182	
6	90	...	...	96	...	96	96	4	4	220	228	...	228	324	
Figures included	...	...	with those for	...	Stone	...	...	...	...	78	80	...	80	175	
7	88	...	...	95	...	95	95	2	...	...	...	...	...	...	
61	297	...	538	899	...	899	8	24	29	720	773	9	782	1,681	
252	1,665	165	1,994	4,076	2,396	6,472	6,472	149	202	1,172	1,523	465	1,988	8,460	
250	2,055	295	1,474	4,113	2,842	6,955	6,962	117	266	1,066	2,349	505	2,854	9,816	
-7	-120	-130	+520	-57	-446	-483	-490	+32	-64	-794	-826	-40	-866	-1,356	
<b>ROCK AND QUARTZITE)</b>															
1	190	14	5	210	6	216	216	10	36	324	370	31	401	617	
...	...	...	40	40	60	100	100	...	...	...	...	...	...	100	
20	193	365	514	1,092	167	1,259	1,259	66	157	420	643	186	829	2,088	
3	...	...	66	69	12	81	81	...	...	...	...	...	...	81	
23	267	...	107	389	425	814	814	5	...	10	15	6	21	835	
33	410	...	...	443	205	648	648	...	...	...	...	...	...	648	
81	860	865	727	2,033	669	2,902	2,902	71	157	430	658	192	850	3,752	
15	10	14	172	211	67	278	278	10	19	110	139	46	185	463	
...	...	3	73	75	4	79	79	3	45	80	128	...	128	207	
...	...	...	124	124	...	124	124	...	...	...	...	...	...	124	
18	...	...	167	185	10	195	195	1	...	10	11	...	11	206	
32	183	39	831	1,085	121	1,206	1,206	28	2	50	80	60	140	1,316	
4	19	76	152	251	161	412	412	6	...	...	6	...	6	418	
4	50	...	...	54	50	104	104	3	3	10	18	10	28	132	
73	262	132	1,518	1,985	413	2,398	2,398	51	71	290	382	116	498	2,896	

**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.						
			Foremen and Matea.	Minors.	Males.			Females.	Total Males and Females.
					Other skilled labour.	Other unskilled labour.	Total Males.		
		Tons.			<b>STONE (CHIEFLY IGNEOUS)</b>				
Burma	Lower Chindwin . . .	33,620	..	..	..	..	..	..	..
	Mergui . . .	1,587	..	..	..	..	..	..	..
	Tavoy . . .	8,174	..	..	..	..	..	..	..
	Thaton . . .	387,709	..	..	..	..	..	..	..
	Toungoo . . .	70,489	..	..	..	..	..	..	..
	Total	501,579	..	..	..	..	..	..	..
Central Provinces.	Chhindwara . . .	30	..	..	..	..	..	..	..
Delhi . . .	Delhi . . .	37,500	..	..	..	..	..	..	..
Punjab	Jhelum . . .	108,663	..	..	..	..	..	..	..
	Mianwali . . .	80,222	..	..	..	..	..	..	..
	Bawalpindi . . .	112,969	..	..	..	..	..	..	..
	Shahpur . . .	25,219	..	..	..	..	..	..	..
	Sheikhupura . . .	25,001	..	..	..	..	..	..	..
	Total	352,274	..	..	..	..	..	..	..

DIX I—*contd.*AND MINERALS—*contd.*No. 1—*contd.*year 1928 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 Blakes.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.			Clirical and supervis- ing staff.		Skilled labour.	Unskilled labour.			Total Males.		
...	...	...	349	349	...	349	349	39	...	...	39	...	39	388	
1	...	4	25	30	10	40	40	...	...	...	...	...	...	40	
...	...	...	99	99	...	99	99	...	...	...	...	...	...	99	
54	840	383	953	1,640	40	1,680	1,680	34	56	105	195	...	195	1,875	
11	163	18	116	308	248	556	556	2	6	3	11	...	11	587	
66	1,003	415	943	2,426	296	2,724	2,724	75	62	106	245	...	245	2,969	
1	...	3	...	4	6	10	10	...	...	2	2	...	2	12	
2	26	...	...	28	...	28	28	2	...	50	52	10	62	90	
12	66	1	302	381	23	404	404	2	2	14	18	...	18	423	
10	...	...	170	160	20	200	200	...	...	...	...	...	...	200	
12	82	...	...	94	...	94	94	8	4	250	263	...	262	356	
5	...	1	60	66	...	66	66	...	...	...	...	...	...	66	
6	60	1	81	148	60	208	208	5	21	6	32	...	32	240	
45	208	3	613	869	103	972	972	15	27	370	312	...	312	1,284	





DIX I—*contd.*AND MINERALS—*contd.*No. 1—*contd.*year 1929 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.			
<b>OUSROCK AND QUARTZITE—<i>contd.</i></b>														
30	391	82	703	1,206	643	1,849	1,849	8	61	...	69	...	69	1,918
21	5	9	266	301	254	555	555	7	16	78	101	...	101	656
19	411	83	38	551	413	964	964	12	3	169	184	...	184	1,148
6	...	...	198	204	48	252	252	3	1	164	168	...	168	420
76	807	174	1,205	2,262	1,358	3,620	3,620	30	81	411	522	...	522	4,142
345	3,356	1,106	5,010	9,817	3,053	12,870	12,870	254	434	1,855	2,543	349	2,892	15,762
190	4,120	1,372	2,439	8,121	1,675	9,796	9,796	194	724	1,510	2,428	500	2,928	12,724
+155	-764	-266	+1,577	+1,696	+1,878	+3,074	+3,074	+60	-290	+345	+115	-151	-36	+3,088
<b>STONE.</b>														
4	21	66	91	182	40	222	222	...	...	...	...	...	...	222
...	...	...	46	46	...	46	46	...	...	...	...	...	...	46
3	53	...	16	72	103	175	175	1	...	...	1	...	1	176
7	89	32	215	343	205	548	548	4	14	10	28	5	33	561
2	40	13	21	76	19	95	95	3	2	4	9	...	9	104
9	129	45	236	419	224	643	643	7	16	14	37	5	42	685
16	203	111	389	719	367	1,086	1,066	18	16	14	38	5	43	1,129
17	169	13	198	397	141	538	538	5	107	5	117	...	117	655
-1	+34	+98	+191	+322	+226	+548	+548	+3	-91	+9	-79	+5	-74	+474

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						Total Males and Females.
			Underground.						
			Males.					Females.	
			Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.		
Burma . . .	Thaton . . .	74,741	...	...	...	...	...	LATE	
	Toungoo . . .	599	...	...	...	...	...		
	Total . . .	75,331	...	...	...	...	...		
Central Provinces.	Jubbulpore . . .	2,738	...	...	...	...	...	...	
	Grand Total (Late-rite), for 1929.	78,069	...	...	...	...	...	...	
	Grand Total of preceding year.	58,996	...	...	...	...	...	...	
	Difference . . .	+ 19,073	...	...	...	...	...	...	
Bihar and Orissa.	Singhbhum . . .	6,994	...	...	...	...	...	GRA Figures inclu-	
	Total of preceding year.	16,295	...	...	...	...	...		
	Difference . . .	-9,301	...	...	...	...	...		

## DIX I—contd.

## AND MINERALS—contd.

## No. 1—contd.

year 1929 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 Minors.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.			
<b>RITE.</b>														
3	264	12	6	285	...	285	285	9	...	...	9	...	9	294
6	...	...	22	29	...	28	28	...	...	...	...	...	...	28
9	264	12	28	313	...	313	313	9	...	...	9	...	9	322
5	30	...	41	96	41	137	137	2	...	4	6	...	6	143
14	314	12	69	409	41	450	450	11	...	4	15	...	15	465
9	240	12	77	336	12	350	350	11	3	...	14	...	14	364
+5	+74	...	-8	+71	+29	+100	+100	...	-3	+4	+1	...	+1	+101
<b>VEL.</b>														
ded with those for Stone.														
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

**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						Total Males and Females.
			Underground.						
			Males.					Females.	
			Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.		
		Tons						<b>MU</b>	
Bihar and Orissa.	Singhbhum . . .	2,883						Figures included with those for	
Bombay	Bombay Suburban	1,124,635	...	...	...	...	...	...	
	Thana . . .	8,216						Figures included with those for	
	Total . . .	1,132,851	...	...	...	...	...	...	
	<b>Grand Total (Murum) for 1929.</b>	1,135,784	...	...	...	...	...	...	
	<b>Grand Total of preceding year.</b>	1,294,087	...	...	...	...	...	...	
	<b>Difference . . .</b>	<b>-158,303</b>	...	...	...	...	...	...	
								<b>FIRE</b>	
Bengal . . .	Burdwan . . .	12,348	...	...	...	...	...	...	
	Bhagalporo . . .	49	...	3	...	...	3	3	
Bihar and Orissa.	Manbhumi . . .	6,015	...	...	...	...	...	...	
	Palaman . . .	7,324	...	...	...	...	...	...	
	Sambalpur . . .	3,836	...	...	...	...	...	...	
	<b>Total . . .</b>	<b>17,224</b>	...	3	...	...	3	3	

DIX I—*contd.*AND MINERALS—*contd.*No. 1—*contd.*year 1929 at mines under the Indian Mines Act—*contd.*

daily in and about the mines.

Foremen and Mates.	Open workings.						Total Underground and Open workings.	Surface.						Grand Total.	
	Males.					Females.		Total Males and Females.	Males.				Females.		Total Males and Females.
	Minors.	Other skilled labour.	Other unskilled labour.	Total Males.					Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.			
<b>RUM.</b>															
Stone.															
50	4	60	864	978	468	1,446	1,446	5	48	11	64	...	64	1,510	
Stone.															
50	4	60	864	978	468	1,446	1,446	5	48	11	64	...	64	1,510	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
<b>CLAY.</b>															
2	105	21	...	128	23	151	151	3	...	8	11	16	27	178	
...	1	...	1	2	2	4	7	...	...	...	...	...	...	7	
3	36	...	61	100	57	157	157	2	1	42	45	24	69	226	
1	17	3	...	21	17	38	38	1	13	13	27	7	34	72	
2	26	...	...	28	10	38	38	1	1	46	48	6	54	92	
6	80	3	62	151	86	237	240	4	15	101	120	37	157	397	

**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.					Total Males and Females.	
			Foremen and Matos.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.		Females.
Central Provinces.	Jubbulpore . . .	Tons. 43,938	...	...	9	...	9	9	<b>FIRE</b> 18
	Grand Total (Fire Clay) for 1929.	73,505	...	8	9	...	12	9	21
	Grand Total of preceding year.	62,777	...	4	...	...	4	...	4
	Difference . . .	-9,272	...	-1	+9	...	+8	+9	+17
Bihar and Orissa.	Bhagalpur . . .	4,082	3	6	...	7	16	6	<b>CHINA</b> 22
	Singhbhum . . .	5,836	..	...	...	...	...	...	...
	Total . . .	9,418	3	6	...	7	16	6	22
Delhi . . .	Delhi . . . . .	2,310	...	8	...	...	6	...	6
	Grand Total (China Clay) for 1929.	11,728	8	14	...	7	24	6	30
	Grand Total of preceding year.	7,186	2	8	...	4	14	18	27
	Difference	+4,542	-1	+6	...	+8	+10	-7	+3

## DIX I—contd.

## AND MINERALS—contd.

## No. 1—contd.

year 1929 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.			
CLAY—contd.														
8	12	8	117	145	241	386	404	1	1	47	49	16	65	469
16	197	32	179	424	350	774	795	8	16	156	180	69	249	1,044
18	212	32	221	463	533	1,016	1,020	4	24	169	197	64	261	1,261
-2	-15	...	-43	-59	-163	-242	-235	+4	-6	-13	-17	+5	-12	-237
CLAY.														
2	10	...	...	12	19	31	53	5	6	17	28	3	31	84
16	59	14	126	215	212	427	427	17	15	64	96	130	226	653
18	69	14	126	227	231	458	460	22	21	61	124	133	257	737
...	...	...	...	...	...	...	8	1	8	.	9	...	9	17
18	69	14	126	227	231	458	466	23	20	61	133	133	266	754
17	78	...	85	160	169	369	396	23	18	91	132	121	253	649
+1	-9	+14	+41	+47	+42	+69	+92	...	+11	-1	+1	+12	+13	+105

## 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 Mates.		
		Tons.							CL
Bengal . . .	Burdwan . . .	15,221	...	...	..	...	...	...	...
Central Provinces.	Jubbulpore . . .	70,231	...	...	...	...	...	...	...
Punjab . . .	Attuck . . .	39,079							Figures included with those
	Grand Total (Clay) for 1929.	124,531	...	...	...	...	...	...	...
	Grand Total of preceding year.	26,836	...	...	...	...	...	...	...
	Difference	+95,695	...	...	...	...	...	...	...
Rajputana . . .	Ajmer-Merwara . . .	Tons 39	1	4	...	...	5	...	GRA 5
	Total of preceding year.	...	...	...	...	...	...	...	...
	Difference . . .	+39	+1	+4	...	...	+5	...	+5
Madras . . .	Kurnool . . .	802	..	10	4	8	22	..	BARY 22
	Total of preceding year.	620	1	32	...	..	33	...	33
	Difference . . .	+182	- 1	-22	+4	+8	-11	...	-11



DIX I—*contd.*AND MINERALS—*contd.*No. 1—*contd.*year 1929 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.	
Firemen and Mates	Miners.	Other Skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervis- ing staff	Skilled labour.	Unskilled labour.	Total Males.			
<b>AY.</b>														
..	36	...	..	36	35	71	71	..	..	8	8	..	8	79
3	14	8	..	25	31	56	56	2	..	..	2	..	2	58
for Limestone.														
3	50	8	..	61	66	127	127	2	..	8	10	..	10	137
3	19	18	6	46	59	105	105	10	..	..	10	..	10	115
..	+31	-10	-6	+15	+7	+22	+22	-8	..	+8	..	..	..	+22
<b>PHITE.</b>														
..	2	..	..	2	..	2	7	..	..	2	2	..	2	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	+2	..	..	+2	..	+2	+7	..	..	+2	+2	..	+2	3
<b>TES.</b>														
..	20	16	18	54	..	54	76	..	4	7	11	..	11	87
1	8	16	..	25	..	25	58	6	21	..	26	..	26	84
-1	+12	..	+18	+29	..	+29	+18	-5	-17	+7	-15	..	-15	+3









**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.		
Rajputana	Ajmer Merwara	Nil	...	...	...	...	...	...	<b>BER</b> ...
	Total of preceding year.	Nil	...	...	...	...	...	...	...
	Difference	...	...	...	...	...	...	...	...
Burma	Tavoy	lbs. 88	...	...	...	...	...	...	<b>BIS</b> ...
	Total of preceding year.	82	...	..	...	...	...	...	...
	Difference	+6	...	...	...	...	...	...	...
	Grand Total (Metaliferous Mines) for 1929.	...	794	11,283	1,860	3,897	17,834	2,209	20,043
	Grand Total of preceding year.	...	933	11,815	1,232	3,448	17,428	,377	20,805
	Difference	...	-139	-532	+628	+449	+406	-1,168	-762
	Grand Total (all Minerals) for 1929.	...	...	...	...	...	92,856	24,089	116,945
Grand Total of preceding year.	...	...	...	...	...	86,155	31,785	117,940	
Difference	...	...	...	...	...	-6,701	-7,696	-995	

Figures included with those

DIX I—*concl'd.*AND MINERALS—*concl'd.*No. 1—*concl'd.*year 1929 at mines under the Indian Mines Act—*concl'd.*

daily in and about the mines.

Foremen and Mates.	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.	Total Males.				Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.			
YL	...	6	...	6	...	6	6	...	...	...	...	...	...	6	
...	...	10	...	10	...	10	10	...	...	...	...	...	...	10	
...	...	4	...	4	...	4	4	...	...	...	...	...	...	4	
MUTH.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
for Tin.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
1,871	24,299	4,092	13,180	43,442	20,783	64,225	84,268	1,707	3,046	9,835	14,588	5,187	19,775	104,043	
1,751	25,788	3,918	10,105	41,562	20,434	61,996	82,801	1,636	3,703	10,994	16,333	4,998	20,781	103,532	
+120	-1,489	+174	+3,076	+1,880	+349	+2,229	+1,467	+71	-657	-1,182	-1,746	+789	-956	+511	
...	...	...	...	54,235	28,722	82,957	190,906	...	...	...	51,954	17,839	69,793	269,701	
...	...	...	...	51,005	28,453	79,458	197,398	...	...	...	52,430	17,843	70,273	267,671	
...	...	...	...	+3,230	+275	+3,505	+2,510	...	...	...	-476	-4	-480	+2,030	





## DIX I—contd.

## No. 2.

each important mining field during the year 1929.

Open workings.						Surface.			
Overmen and Sirdars. — Foremen and Mates.	Miners.	Loaders.	Skilled Labour.	Unskilled Labour.	Females.	Clerical and Supervising Staff.	Skilled Labour.	Unskilled Labour.	Females.
46	43	43	44	46	43	53	52	51	51
45	43	40	47	47	44	53	57	50	49
48	41	44	43	46	45	50	48	47	49
54	54	54	54	54	54	56	56	56	56
...	...	...	...	...	..	50	47	47	36
...	...	...	...	...	...	48	46	34	...
42	...	...	...	42	42	51	52	50	50
44	44	...	46	44	45	45	44	47	55
46	45	...	46	46	45	46	46	45	45
46	44	...	47	46	44	48	46	46	45
52	48	...	40	50	49	47	50	49	50
48	47	...	52	49	47	47	49	47	48
48	47	...	48	47	45	46	46	46	45
47	47	...	47	47	...	53	53	53	...
49	50	...	40	49	47	46	44	46	48
48	48	...	...	...	...	48	52	51	48
43	42	...	48	42	43	46	44	44	44
48	46	...	46	46	...	48	...	48	...
46	43	...	42	44	44	50	44	38	36

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 . . .	...	262,987	262,987	243,315	16,862	2,790
	Nazira . . .	145	58,558	58,703	57,607	1,042	...
Baluchistan .	Baluchistan . .	878	10,964	11,857	10,547	...	...
Bengal (and part of Bihar and Orissa).	Raijung . . .	345,100	6,828,053	7,173,153	6,469,182	471,319	80,188
	Jharia . . .	1,208,676	10,785,745	11,994,421	9,668,486	570,065	1,105,757
Bihar and Orissa.	Bokaro . . .	4,440	2,118,703	2,123,143	2,064,646	41,546	16,091
	Karanpura . .	1,329	467,127	468,956	450,762	15,122	...
	Giridih . . .	15,631	771,165	786,796	725,915	43,487	...
	Jainty . . .	1,042	40,732	42,974	28,947	11,884	...
	Daltonganj . .	...	1,522	1,522	...	1,522	...
	Hutar . . .	273	357	680	159	356	...
	Hingir-Rampur .	1,226	36,774	38,000	28,818	8,501	...
Central Provinces.	Pench Valley . .	5,025	680,270	685,295	642,574	35,370	...
	Chanda . . .	5,949	202,061	208,010	180,446	21,127	...
Punjab . . .	Salt Range . . .	2,032	43,186	45,168	41,213	1,229	...
	Total 1929 . .	1,592,841	22,306,174	23,901,015	20,612,567	1,239,372	1,204,836

## DIX I—contd

## No. 3.

output of Coal and Coke, 1920.

		Coke.									
Coal despatched to coke factories.	Closing stocks.	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.
..	...	...	...	990	...	900	...	30	...	..	...
...	51	...	...	...	...	...	...	...	...	...	...
...	1,810	...	...	...	...	...	...	...	...	...	...
...	152,604	26	1,764	353	60,134	833	58,410	...	979	26	2,500
1,068,183	650,093	5,020	6,493	66,428	693,186	68,182	691,299	314	1,148	2,452	7,284
...	860	215	1	4,742	4,407	4,863	4,406	92	...	2	2
...	3,072	...	...	...	...	...	...	...	...	...	...
53,778	17,894	...	...	...	...	...	...	...	...	...	...
...	1,549	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...
...	115	...	...	...	...	...	...	...	...	...	...
...	681	...	...	...	...	...	...	...	...	...	...
...	7,851	...	...	...	...	...	...	...	...	...	...
...	6,437	...	...	...	...	...	...	...	...	...	...
...	2,726	...	...	...	...	...	...	...	...	...	...
1,741,961		5,261	8,260	72,453	757,727	74,298	754,115	936	2,127	2,480	9,745

APPENDIX I—*contd.*

Table No. 4.

Number of mines opened, closed and inspected, during the year 1929.

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.
<b>COAL.</b>								
Assam .	Makum Coalfield . . . .	7	5	2	..	..	7	22
	Nazira „ . . . .	2	1	1	1	1	1	5
Baluchistan .	Baluchistan Coalfield . . . .	13	..	13	3	3	..	..
Bengal (and part of Bihar and Orissa).	Baniganj Coalfield . . . .	208	106	42	26	20	219	796
Bihar and Orissa.	Jharia Coalfield . . . .	248	174	74	29	18	260	836
	Bokaro „ . . . .	5	5	..	..	..	5	17
	Karanpura Coalfield . . . .	4	3	1	1	..	3	8
	Giridih Coalfield . . . .	8	6	2	..	1	7	24
	Jainty „ . . . .	4	1	3	..	..	1	1
	Daltongunj Coalfield . . . .	1	1	..	..	..	2	2
	Hutar Coalfield . . . .	2	..	2	1	2	1	1
	Hingir-Rampur Coalfield . . . .	1	1	..	..	..	1	2
Central Provinces.	Pench Valley Coalfield . . . .	23	14	9	5	4	24	92
	Chanda Coalfield . . . .	6	5	1	..	..	6	12
	<b>Total</b> . . . .	..	..	..	..	..	..	..

APPENDIX I—*contd.*Table No. 4—*contd.*Number of mines opened, closed and inspected, during the year 1929—*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.
<b>COAL—<i>contd.</i></b>								
Punjab . . .	Salt Range Coalfield . . .	16	...	16	4	3	...	...
	Grand Total (Coal) for 1929 . . .	548	382	166	70	52	537	1,820
	Grand Total of preceding year.	556	406	150	31	80	543	1,861
	Difference . . .	-8	-24	+16	+39	-28	-6	-61
<b>IRON ORE.</b>								
Bihar and Orissa	Singhbhum . . . . .	6	3	3	...	...	4	4
Burma . . . . .	... . . . .	7	...	7	...	2	2	4
	Grand Total (Iron ore) for 1929	13	3	10	...	2	6	8
	Grand Total of preceding year.	14	3	11	2	...	8	14
	Difference . . .	-1	...	-1	-2	+2	-2	-6
<b>MANGANESE ORE.</b>								
Bihar and Orissa	... . . . .	12	...	12	1	5	11	11
Bombay . . . . .	... . . . .	11	1	10	3	2	...	..



APPENDIX I—*contd.*Table No. 4—*contd.*Number of mines opened, closed and inspected, during the year 1929—*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.
<b>TIN AND WOLFRAM ORE.</b>								
Burma . . . . .	...	186	9	177	48	33	63	74
	Grand Total of preceding year.	203	9	194	70	37	6	6
	Difference . . . . .	-17	...	-17	-22	-4	+57	+68
<b>CHROMITE ORE.</b>								
Baluchistan . . . . .	Zhob . . . . .	31	...	31	...	...	...	...
Bihar and Orissa	Singhbhum . . . . .	3	...	3	1	1	3	3
	Grand Total (Chromite Ore) for 1929	34	...	34	1	1	3	3
	Grand Total of preceding year	35	...	35	1	1	5	6
	Difference . . . . .	-1	...	-1	...	...	-2	-3
<b>COPPER ORE.</b>								
Bihar and Orissa	Singhbhum . . . . .	1	1	...	...	...	1	2
Burma . . . . .	Honzada . . . . .	1	...	1	...	...	...	...
	Grand Total (Copper Ore) for 1929.	2	1	1	...	...	1	2
	Grand Total of preceding year	4	2	2	1	1	2	3
	Difference . . . . .	-2	-1	-1	-1	-1	-1	-1

## APPENDIX I—contd.

Table No. 4—contd.

Number of mines opened, closed and inspected, during the year 1929—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.
<b>GEMS.</b>								
Burma . . .	Katha . . . . .	1	1	..	..	..	1	2
	Total of preceding year . . . . .	2	2	..	..	..	..	..
	Difference . . . . .	-1	-1	..	..	..	+1	+2
<b>MICA.</b>								
Bihar and Orissa . . . . .	... . . . .	397	24	373	174	143	148	186
Madras . . . . .	... . . . .	77	7	70	20	19	39	39
Rajputana . . . . .	Ajmer-Merwara . . . . .	24	..	24	14	18	..	..
	Grand Total (Mica) for 1929 . . . . .	498	31	467	208	180	187	225
	Grand Total of preceding year . . . . .	674	83	591	199	278	164	166
	Difference . . . . .	-176	-52	-124	+9	-98	+23	+59
<b>SALT.</b>								
Punjab . . . . .	Salt Range . . . . .	3	2	1	..	..	..	..
	Total of preceding year . . . . .	3	1	2	..	..	2	4
	Difference . . . . .	..	+1	-1	..	..	-2	-4



APPENDIX I—*contd.*Table No. 4—*contd.*Number of mines opened, closed and inspected, during the year 1929—*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.
<b>MAGNESITE.</b>								
Madras . . .	Salem . . . . .	5	...	5	1	..	...	..
	Total of preceding year . . . . .	4	...	4	1	...	2	2
	Difference . . . . .	+1	...	+1	...	...	-2	-2
<b>BAUXITE.</b>								
Bombay . . .	Kaira . . . . .	1	...	1	...	...	1	1
	Total of preceding year . . . . .	2	...	2	..	1	1	1
	Difference . . . . .	-1	...	-1	...	-1	...	...
<b>STEATITE.</b>								
Bihar and Orissa.	Singhbhum . . . . .	7	...	7	3	4	1	1
Central Provinces.	Jubbulpore . . . . .	6	...	6	1	2	2	2
Madras . . .	Nellore . . . . .	2	...	2	...	...	...	...
United Provinces.	... . . . .	14	...	14	9	13	16	17
	Grand Total (Steatite) for 1929 . . . . .	29	...	29	18	19	19	20
	Grand Total of preceding year . . . . .	28	...	28	7	11	14	14
	Difference . . . . .	+1	...	+1	+6	+8	+5	+6

## APPENDIX I—contd.

Table No. 4—contd.

Number of mines opened, closed and inspected, during the year 1929—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.
<b>SLATE.</b>								
Bihar and Orissa.	Monghyr . . . . .	5	..	5	1	2	5	5
Punjab . . . . .	... . . . .	8	...	8	1	...	...	...
	Grand Total (Slate) for 1929 . . . . .	13	...	13	2	2	5	5
	Grand Total of preceding year . . . . .	13	...	13	...	1	9	9
	Difference . . . . .	...	...	...	+ 2	+ 1	- 4	- 4
<b>LIMESTONE.</b>								
Bihar and Orissa.	Shahabad . . . . .	11	1	10	1	3	9	9
Bombay . . . . .	Sukkur . . . . .	1	...	1	1	...	...	...
Burma . . . . .	... . . . .	6	...	6	...	1	1	2
Central Provinces.	... . . . .	19	2	17	4	2	17	18
Punjab . . . . .	... . . . .	6	...	6	2	...	...	...
	Grand Total (Limestone) for 1929 . . . . .	43	3	40	8	6	27	29
	Total of preceding year . . . . .	41	4	37	4	5	30	33
	Difference . . . . .	+ 2	- 1	+ 3	+ 4	+ 1	- 3	- 4

APPENDIX I—*contd.*Table No. 4—*contd.*Numbers of mines opened, closed and inspected, during the year 1929—*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.
<b>IGNEOUS ROCK.</b>								
Bengal . . . . .	Birbhum . . . . .	4	1	3	..	..	..	..
Bihar and Orissa.	.. . . .	59	..	59	11	12	3	3
Bombay . . . . .	.. . . .	23	..	23	19	3	..	..
Burma . . . . .	.. . . .	19	..	19	9	4	11	12
Central Provinces.	Chhindwara . . . . .	1	..	1	..	1	..	..
	Grand Total (Igneous Rock) for 1929.	106	1	105	39	20	14	15
	Grand Total of preceding year .	87	1	86	26	16	89	134
	Difference . . . . .	+19	..	+19	+13	+4	-75	-119
<b>STONE (unspecified).</b>								
Bihar and Orissa.	.. . . .	12	..	12	3	8	4	4
Burma . . . . .	Mergui . . . . .	1	..	1	1	..	..	..
Delhi . . . . .	Delhi . . . . .	1	..	1	1	1	..	..
Punjab . . . . .	.. . . .	12	..	12	5	..	..	..
United Provinces.	.. . . .	28	..	28	6	2	31	34
	Grand Total (Stone unspecified) for 1929.	54	..	54	16	11	35	58
	Grand Total of preceding year.	40	..	40	5	6	26	28
	Difference . . . . .	+14	..	+14	+11	+5	+9	+10

APPENDIX I—*contd.*Table No. 4—*contd.*Number of mines opened, closed and inspected, during the year 1929—*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.
Burma	...	2	...	2	...	...	...	...
Central Provinces.	Jubbulpore	3	...	3	2	1	...	...
	Grand Total (Laterite) for 1929	5	...	5	2	1	...	...
	Grand Total of preceding year	4	...	4	2	...	1	2
	Difference	+1	...	+1	...	+1	-1	-
			SANDSTONE.					
Bihar and Orissa	Shahabad	4	...	4	...	...	4	7
Burma	Bassein	1	...	1	...	...	...	...
Central Provinces.	Jubbulpore	2	...	2	2	1	...	...
	...	9	...	9	1	3	11	...
United Provinces.	Grand Total (Sandstone) for 1929.	16	...	16	3	4	15	24
	Grand Total of preceding year.	10	...	10	1	...	5	...
	Difference	+6	...	+6	+2	+4	+10	+14
				MURUM.				
Bombay	...	2	...	2	...	...	1	...
	Total of preceding year	2	...	2	2	...	2	...
	Difference	...	...	...	-2	...	-1	-



APPENDIX I—*contd.*Table No. 4—*contd.*Number of mines opened, closed and inspected, during the year 1929—*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.
<b>GRAPHITE.</b>								
Rajputana	Ajmer-Merwara . . . . .	1	..	1	1	1	..	..
	Total of preceding year . . . . .	..	..	..	..	..	..	..
	Difference . . . . .	+1	..	+1	+1	+1	..	..
<b>BARYTES.</b>								
Madras	Kurhool . . . . .	7	..	7	5	5	..	..
	Total of preceding year . . . . .	6	..	6	2	3	3	..
	Difference . . . . .	+1	..	+1	+3	+2	-3	-3
<b>APATITE.</b>								
Bihar and Orissa.	Singhbhum . . . . .	1	..	1	..	1	1	..
Madras	Trichinopoly . . . . .	1	..	1	1	..	..	..
	Grand Total (Apatite) for 1929 . . . . .	2	..	2	1	1	1	..
	Grand Total of preceding year . . . . .	1	..	1	..	-	..	..
	Difference . . . . .	+1	..	+1	+1	+1	+1	+
<b>ASBESTOS.</b>								
Madras	Cuddapah . . . . .	1	..	1	..	..	..	..
	Total of preceding year . . . . .	1	..	1	..	..	..	..
	Difference . . . . .	..	..	..	..	..	..	..

APPENDIX I—*contd.*Table No. 4—*concl'd.*Number of mines opened, closed and inspected, during the year 1929—*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.
Central Provinces.	...	2	<b>OGRE.</b>				...	...
	Total of preceding year	3	...	3	3	1	...	...
	Difference	-1	...	-1	-3	...	...	...
Bihar and Orissa.	Singbhum	2	<b>KYANITE.</b>				1	1
	Total of preceding year	...	...	...	...	...	...	...
	Difference	+2	+1	+1	...	+1	+1	+1
Madras	...	3	<b>CORUNDUM.</b>				...	...
	Total of preceding year	1	...	1	...	...	1	1
	Difference	+2	...	+2	+2	+1	-1	-1
Rajputana	Ajmer-Merwara	1	<b>BERYL</b>				...	...
	Total of preceding year	2	...	2	2	2	1	1
	Difference	-1	...	-1	-1	-1	-1	-1
	Grand Total (Metalliferous Mines).	1,184	70	1,114	369	337	479	568
	Grand Total of preceding year.	1,392	122	1,270	358	422	439	529
	Difference	-208	-52	-156	+11	-85	+40	+89
Grand Total (All Minerals).	Grand Total of preceding year.	1,732	452	1,280	430	369	1,016	2,388
	Difference	-216	-76	-140	+50	-113	+84	-22

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 gems, slate, magnesite, steatite, clay, bauxite, fuller's earth, ochre, barytes, apatite, asbestos, corundum and stone.

Year.	Coal.	Manga- neso 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.
1920	17,083,711	662,636	64,666	161,340	161,092	13,645	28,167	1,733½	148,472	23,128	1,056	123,902	2,870,595
1921	18,358,934	284,354	20,470	284,253	123,084	10,168	32,560	684½	266,190	27,727	1,032	144,089½	3,555,640
1922	18,168,988	392,322	30,089	140,507	187,157	8,388	30,704	942	240,383	19,695	1,080	172,018	4,202,138
1923	18,763,967	546,378	31,605	236,161	113,700	1,519	6,550	872	292,033	25,233	1,021	245,925	4,844,643
1924	20,256,034	608,381	40,529	512,333	159,918	3,646	38	730	430,805	27,850	1,627	310,286	5,287,900
1925	19,969,041	710,347	45,388	614,232	125,366	283	...	772½	629,370	21,230	2,307	321,854	4,931,569
1926	20,093,034	657,099	41,457	637,222	122,801	1,053	9,508	751	600,363	16,455	2,568	362,904	5,103,765
1927	21,108,078	678,521	42,081	1,132,235	145,311	2,305	5,010	830	1,008,281	17,080	2,056	460,777	6,004,566
1928	21,515,796	716,620	44,629	1,404,578	145,543	7	18,055	622	1,200,764	17,107	2,777	443,654	7,404,728
1929	22,308,174	750,908	49,437	1,313,647	148,406	30	70,831	1,061	1,430,385	21,054	3,884	464,091	7,250,517

Table No. 6.

The following table shows the amount of coal raised, the average number of person working daily and the death-rates during the years 1920 to 1929 in respect of coal mine 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 persons working daily below and above ground.
1920 . . . . .	Tons. 17,082,711	175,943	172	10·07	0·98
1921 . . . . .	18,358,934	190,647	257	13·09	1·35
1922 . . . . .	18,168,988	184,355	209	11·50	1·13
1923 . . . . .	18,763,967	182,601	332	17·69	1·82
1924 . . . . .	20,256,034	187,088	230	11·35	1·23
1925 . . . . .	19,969,041	173,140	186	9·31	1·07
1926 . . . . .	20,093,024	170,628	171	8·51	1·00
1927 . . . . .	21,108,976	165,213	181	8·57	1·10
1928 . . . . .	21,515,796	164,139	218	10·13	1·33
1929 . . . . .	22,308,174	165,658	194	8·70	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 . . . . .	...	...	160	7	47	214	60	...	...	...	60	274
Bokaro . . . . .	723	125	175	85	799	1,907	140	774	...	100	1,014	2,921
Central Provinces . . . . .	...	...	...	...	2	2	40	192	60	2	294	296
Giridih . . . . .	...	220	...	110	498	628	526	2,513	82	2	3,123	3,951
Jharia . . . . .	2,695	675	2,009	801	3,715	10,095	6,435	15,268	3,097	718	26,118	36,213
Karanpura . . . . .	...	...	750	65	303	1,118	...	308	...	...	308	1,421
Raniganj . . . . .	2,623	1,057	590	587	408	5,265	5,418	10,730	3,422	122	19,692	24,957
Total . . . . .	6,241	2,077	3,684	1,655	5,772	19,429	12,619	29,780	7,261	944	50,604	70,038

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 . . . . .	2	274	...	...	...	...	274
Bengal . . . . .	51	21,427	...	...	1	50	21,477
Bihar and Orissa . . . . .	60	48,036	...	...	4	1,751	49,787
Bombay . . . . .	...	...	...	...	2	248	248
Burma . . . . .	...	...	2	3,602	6	1,984	5,586
Central Provinces . . . . .	1	296	..	...	6	428	724
Madras . . . . .	...	...	...	...	1	235	235
Punjab . . . . .	...	...	...	...	1	755	755
Total . . . . .	114	70,038	2	3,602	21	5,441	79,076

APPENDIX I—*contd.*

Table No. 9.

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

Maker.	British.	American.	Chain.	Bar.	Percussive.	Power.			Total number of machines.
						Electricity.		Compressed air.	
						A. C.	D. C.		
Anderson Boyes . . . . .	2	...	2	...	...	2	...	...	2
Goodman . . . . .	...	73	73	...	...	46	27	...	73
Hardiux . . . . .	2	...	...	...	2	...	...	2	2
Mavor and Coulson . . . . .	80	...	16	64	...	70	1	9	80
Siskol . . . . .	2	...	...	...	2	...	...	2	2
Sullivan . . . . .	...	14	14	...	...	14	...	...	14
<b>Total</b> . . . . .	<b>86</b>	<b>87</b>	<b>105</b>	<b>64</b>	<b>4</b>	<b>182</b>	<b>28</b>	<b>13</b>	<b>173</b>

Jharia coalfield . . . . . 78 machines  
 Raniganj coalfield . . . . . 91 „  
 Central Provinces coalfield . . . . . 4 „ } Total number of square feet  
 undercut 9,769,640.

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.
12	20	34	6	74

Table No. 11.

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

Assam.	Baluchistan.	Bengal.	Bihar and Orissa.	Central Provinces.	Punjab.	Total.
2,362	6	9,436	8,431	2	2	20,239

959 were locked by screws, 7,452 by lead rivets, and 11,828 by magnetic means.

Table No. 12.

Statement of explosives used during the year 1929 in mines under the Indian Mines Act

Name of explosive.	Quantity of explosives used, in lb., in—								Total.
	Coal mines.	Mica mines.	Manganese mines.	Lead ore mines.	Tin and Wolfram ore mines.	Limestone mines.	Stone mines.	Other mines.	
Dynamite . . . . .	169,496	95,257	17,855	...	11,055	5,363	16,788	68,104	383,918
Gelignite . . . . .	79,091	9,784	121,764	185,121	1,474	12,598	54,113	72,633	536,578
Monobel . . . . .	56,242	...	...	...	...	...	...	...	56,242
Stonobel . . . . .	85,377	...	...	...	...	...	...	...	85,377
Bobbinite . . . . .	183	...	...	...	...	...	...	...	183
Gunpowder . . . . .	2,840,393	6,671	135,529	..	952	191,705	222,070	151,068	3,048,397
Compressed gunpowder . . . . .	14,152	...	...	...	...	...	...	...	14,152
Number of detonators used.	1,488,536	760,163	727,572	370,600	107,833	54,780	291,152	539,222	4,287,310

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**APPENDIX II.**

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**APPENDIX II.**  
**ACCIDENTS IN MINES.**

**Table No. 1.**

Fatal Accidents during the year 1929.

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.
<b>EXPLOSIONS AND IGNITIONS OF FIRE-DAMP—(8 deaths).</b>						
1	16th April, 3-30 P.M.	Sawang mine, Bokaro P. O., Bihar and Orissa.	East Indian and Bengal Nagpur Railways.	Kartar Singh, (m.), 23 Arjun Singh, (m.), 20. Gaiinda Singh, (m.), 25. Sohan Gope, (m.), 27. Bhikwa Gope, (m.), 22. Bhagat Singh, (m.), 35.	Coal	In a pumping shaft, 65 feet deep and 8 feet in diameter, which was sunk to the floor of a coal seam 50 feet thick. Four men were changing a pump on a platform 50 feet from the surface. After they had been at work for seven hours the shaft was filled with fire-damp by a blower issuing from the coal at a depth of 35 feet. The four men in the shaft and five men who were at work at the top of the shaft received severe burns when the fire-damp was ignited by a match or cigarette and six of them subsequently died. The shaft was only 10-20 feet from the face of a quarry; it was not connected to any system of underground workings, and naked lights had been used in it for over four years. Inspection and inquiry made.
2	16th May, 7-45 A.M.	Kongon mine, Kongnyu P. O., Assam.	Nazira Coal Co., Ld.	Abdul Jelil, (m.), 48. Coal-cutter.	Coal	Two miners carrying open lights entered a narrow rise gallery and ignited an accumulation of inflammable gas. Both men were seriously burnt, and one of them succumbed to his injuries four days later. Inspection and inquiry made.
3	11th December, 9 P. M.	Barmondia mine, Sitarampur P. O., Bengal.	New Beerbhoom Coal Co., Ld.	Majhar Meah, (m.), 35. Driller.	Coal	In a mine in which inflammable gas had never been found, a driller carrying an open light entered a rise gallery and ignited an accumulation of fire-damp. He was severely burned and died twenty-eight hours later. The gas issued from the face of an adjacent level gallery which was approaching an intrusive dyke. Inspection and inquiry made.

## FALLS OF ROOF AND SIDES.

(a) Falls of roof—(99 deaths).

4	8th January, 1 A.M.	Neamatpur mine, Sundarohak P. O., Bengal.	Equitable Coal Co., Ld.	Bishu Pandey, (m.), 24, Coal-cutter.	Coal	Contrary to orders a gang of miners entered a goaf which had been fenced off. They fired a shot in the side of a pillar, and while loading the coal they had brought down a mass of stone, 25' x 9' x 1' 3", fell from the roof,—a height of 14 feet. One of the miners was struck by the falling stone and killed instantly. Inspection and inquiry made.
5	9th January, 12-30 P.M.	Loyabad mine, Bansjora P. O., Bihar and Orissa.	Barrakur Coal Co., Ld.	Douri Baurin, (f.), 35, Loader.	Coal	Deceased was sitting some 10 or 12 feet from a place where roof coal had recently been blasted, when a mass of coal and stone, 10' x 12' x 2', fell from a height of 11 feet. She was killed instantly. Inspection and inquiry made.
6	9th January, 6 A.M.	Deoli mine, Dishergarh P. O., Bihar and Orissa.	Deoli Coal Co., Ld.	Khanti Baurin, (f.), 38, Coal-carrier.	Coal	Whilst a woman was loading coal on the deep side of a pillar under extraction, a fall of roof occurred in the adjacent goaf. The fallen stone slid down the slope and rolled over on to her, causing injuries from which she died six days later. Inspection and inquiry made.
7	14th January, 1-15 P.M.	Bawdwin mine, Namtu P. O., Burma.	Burma Corporation, Ld.	Shein Lew San, (m.), 35, Miner.	Silver-lead-zinc.	A miner was driving a cross-cut 7 feet x 5 feet through broken ground in an area which had been on fire when a quantity of hot fine rock fell upon him from between the supporting timbers. He was severely burned and died two days later. Inspection and inquiry made.
8	17th January, 11 P.M.	Bawdwin mine, Namtu P. O., Burma.	Burma Corporation, Ld.	Tone Kyain Sone, (m.), 21; Kyain Yu Swin, (m.), 23, Miners.	Silver-lead-zinc	Two miners who were engaged in timbering operations near the face of a stope were killed by a mass of fine ore weighing about 15 tons which fell from the back. Inspection and inquiry made.
9	20th January, 7-30 A.M.	Haripur mine, Chora P. O., Bengal.	K. P. Chatterjee & Brothers.	Gokul Bauri, (m.), 32, Loader.	Coal	A miner passed through a fence and was loading coal in a gallery when he was killed by a mass of roof coal, 35' x 22' x 1' 6", which fell from a height of 21 feet. Inspection and inquiry made.
10	21st January, 2 P.M.	Central Kirkend mine, Kusunda P. O., Bihar and Orissa.	Central Kirkend Coal Co., Ltd.	Ughni Kolin, (f.), 23, Coal-carrier.	Coal	Whilst a woman was loading coal in a gallery in which roof coal had recently been cut, she was killed by a mass of roof coal, 4 feet thick, weighing about 12 tons, falling from between two concealed slips. Inspection and inquiry made.
11	30th January, 2-15 P.M.	Deoli mine, Dishergarh P. O., Bihar and Orissa.	Deoli Coal Co., Ltd.	Suramani Mejhian, (f.), 20, Loader.	Coal	Whilst filling a basket of coal a female loader was fatally injured by a triangular shaped mass of coal 6' x 3' x 1' 6", which fell without warning from a height of 54 feet. Inspection and inquiry made.

**APPENDIX II—contd.**

**Fatal Accidents during the year 1929—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.
<b>FALLS OF ROOF AND SIDES—contd.</b> <b>(a) Falls of roof—(99 deaths)—contd.</b>						
12	31st January, 3-30 A.M.	Dharijoba mine, Kusunda P. O., Bihar and Orissa.	Dharijoba Colliery Co.	Dhanu Manjhi, (m.), 28, Coal-cutter.	Coal	A miner was cutting roof coal in a gallery, 8 feet high when a mass of coal, 5' x 4' 6" x 1' 6", fell from a concealed "slip". He was struck by the falling coal and sustained injuries to which he succumbed three days later. Inspection and inquiry made.
13	5th February, 5-30 A.M.	Katras mine, Katrasgarh P. O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Sewa Meah, (m.), 35; Khagoo Meah, (m.), 32, Coal-cutters.	Coal	Whilst the roof of a gallery, 5 feet high, was being dressed a mass of stone, 10' x 5' x 1', fell from between concealed "slip". A miner was killed on the spot and two others were seriously injured, one of the latter died three weeks later. Inspection and inquiry made.
14	13th February, 2-30 A.M.	South East Baraboni mine Charanpur P. O., Bengal.	Maharaja of Cossimbazar.	Sakar Meah, (m.), 29; Khublal Chamar, (m.), 28, Coal-cutters.	Coal	Two miners entered a fenced off goaf with the intention of loading fallen coal. They were struck by a mass of roof coal, weighing about 30 cwt., which fell from a height of 15 feet. One of them was killed instantly and the other was fatally injured. Inspection and inquiry made.
15	13th February, 6 P.M.	Bonahir mine, Jharria P. O., Bihar and Orissa.	Standard Coal Co., Ld.	Gajadhar Dasadh, (m.), 50, Coal-cutter.	Coal	Whilst helping to dress down some roof coal after blasting, a miner was struck by a prop which was knocked out of position by a mass of coal, weighing 2 or 3 tons, falling from a height of 25 feet. He was seriously injured and died four days later. Inspection and inquiry made.
16	27th February, 1 A.M.	Cherangode mine, Ch-rambadi P. O., Madras.	A. H. Gaston	Alayoo, (m.), 30, Head-miner.	Mica	Whilst a miner was drilling a shot hole in a tunnel which was being enlarged from 4 feet by 3 feet to 6½ feet by 6½ feet a mass of soft schist weighing about 5 cwt. fell and killed him instantly. Inspection and inquiry made.
17	4th March, 30 P.M.	Dandot mine, Dandot P. O., Punjab.	E. S. Thakurdass Ramjidas.	Sardar, (m.), 65, Contractor.	Coal	A contractor went to the face of a long wall working and was killed by the fall of roof stone weighing about 3 cwt. Inspection and inquiry made.

18	10th March, 3-30 A.M.	Lodna mine, Jharla P. O., Bihar and Orissa.	Lodna Colliery Co. (1920), Ltd.	Mahnbir Chamar, (m.), 39, Mohini Kurnin, (f.), 39, Loaders.	Coal	Three coal loaders were working under the edge of some roof coal which had been recently blasted when a mass of coal, weighing about 3 tons, fell on them from a height of 24 feet. One man was killed instantly and one woman received injuries resulting in her death six hours later; the other woman was only slightly injured. Inspection and inquiry made.
19	15th March, 2 P.M.	Dishergarh (West) mine, Dishergarh P. O., Bengal.	Equitable Coal Co., Ltd.	Kumari Baurin, (f.), 28, Loader.	Coal	Whilst a loader was filling her 'basket with coal she was killed by a piece of roof coal which fell from a height of 14 feet. Inspection and inquiry made.
20	29th March, 10 P.M.	Hurriladh mine, Jalgora P. O., Bihar and Orissa.	Equitable Coal Co., Ltd.	Ettwaria Bhuiyan, (f.), 28; Sukni Bhuiyan, (f.), 36, Coal-carriers.	Coal	Whilst two women were loading coal in a gully 19 feet high, they were struck and killed instantly by the fall of some 5 tons of coal from the roof and side. If the working place had been properly inspected after blasting, the accident would have been avoided. Inspection and inquiry made.
21	29th March, 1-45 A.M.	Bawdwin mine, Nanta P. O., Burma.	Burma Corporation, Ltd.	Gagan Singh, (m.), 23, Miner.	Silver- lead- zinc.	Whilst back spillings were being driven forward to connect with the cap of the advance set in a stope timbered with square sets, some soft friable ore ran from over the adjacent set, thus forming a void which it was necessary to pack and secure. Deceased was packing the void with pieces of old timber when some 15 tons of ore fell from above the void; he was killed instantly. Inspection and inquiry made.
22	4th April, 4 P.M.	Jamadoba mine, Jalgora P. O., Bihar and Orissa.	Tata Iron & Steel Co., Ltd.	Maya Ram Teli, (m.), 30, Coal-cutter.	Coal	Whilst deceased was working in a depillaring section of a mine a small pillar of coal under extraction collapsed. At the same time a mass of roof coal fell and knocked six props out of position. Deceased was struck by a falling prop and fatally injured. Inspection and inquiry made.
23	6th April, 7 A.M.	West Gopalichuck mine, Kusunda P. O., Bihar and Orissa.	Gopalichuck Coal Co., Ltd.	Dilbar Meah, (m.), 30, Bandhan Meah, (m.), 35, Coal-cutters. Lal Meah, (m.), 34, Coal carrier.	Coal	In a part of a mine where pillar extraction had been commenced the deceased, whilst loading loose coal in a place which was fenced off, were struck by a mass of roof coal, 9' x 5' x 3', which fell from a height of 9½ feet. Two of them were killed instantly and the remaining man was fatally injured. Inspection and inquiry made.
24	9th April, 5 P.M.	Sripur mine, Kalipahari P. O., Bengal.	Lodna Colliery Co. (1920), Ltd.	'tali Singh, (m.), 51, Mowin Bux Meah, (m.), 37, Rahim Meah, (m.), 23, Mongri Jolani, (f.), 51, Loaders.	Coal	In a seam 16 feet thick a gang of four loaders were engaged in extracting a small pillar of coal when the roof collapsed over an area measuring 35 feet x 14 feet. They were killed instantly. Inspection and inquiry made.

**APPENDIX II—contd.**

**Fatal Accidents during the year 1920—contd.**

Serial number	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of persons killed.	Name of mineral worked.	Cause of accident and remarks.
<b>FALLS OF ROOF AND SIDES—contd.</b>						
<b>(a) Falls of roof—(99 deaths)—contd.</b>						
25	9th April, 2 P.M.	Jamsi Datla mine, Jamai P. O., Central Provinces.	R. B. Mathura Prosad Motilal & Co.	Panna Mehra, (m.), 13, Coal-carrier.	Coal	A coal-carrier was filling a basket with coal when a mass of roof stone, 9' x 5' x 10" to 16' thick, fell on him from a height of 3½ feet, killing him instantly. Inspection and inquiry made.
26	13th April, 4 A.M.	Lode Valley mine, Morgherita P. O., Assam.	Assam Railways and Trading Co., Ld.	Dukhu Gore, (m.), 27, Kashi Bostom, (m.), 80, Ran Prosad Gowala, (m.), 21, Coal fillers.	Coal	While a number of coal fillers were at work in an "opening" or chamber, 21' x 23' x 15' high, a mass of coal weighing about 5 tons fell from a concealed slip in the roof. Two of the men were killed instantly and a third was fatally injured. Inspection and inquiry made.
27	3rd May, 2-30 P.M.	Lower and Upper Jharia mine, Jharia P. O., Bihar and Orissa	Khimji Dossa & Sons.	Chaman Bhuiya, (m.), 27, Coal-cutter.	Coal	Whilst at work in a gallery deceased was killed instantly by a mass of stone, 10' x 5' x 1' 6", which fell from between "slips" at a height of 9 feet. Inspection and inquiry made.
28	10th May, 1 A.M.	Ashakuty mine, Katraagarh P. O., Bihar and Orissa.	Chandanmull Indrakumar.	Apel Swami, Gowala (m.), 36, Coal-cutter.	Coal	Deceased was dressing down roof coal which had been loosened by blasting, when a mass of coal, 6' x 4' x 1' 6" fell on him from a height of 14 feet. He was killed instantly. Inspection and inquiry made.
29	16th May, 6 A.M.	Bawdwin mine, Namtu P. O., Burma.	Burma Corporation, Ld.	Four Chinese and six Indian miners.	Silver-lode-zinc.	Sudden movement in the footwall of a wide lode of very soft ore caused the collapse of adjacent stopes and workings. Nine men were buried and killed instantly and another died a few hours afterwards. Inspection and inquiry made.
30	21st May, 3-15 P.M.	Datla mine, Junardeo P. O., Central Provinces	Amalgamated Coal-fields, Ld.	Chaitto Pradhan, (m.), 44, Coal-filler.	Coal	In an underground working place, 5½ feet high, a mass of roof, 4' 6" x 2' 6" x 1' 6", fell from a concealed "slip". A coal loader who was working there was killed. Inspection and inquiry made.
31	26th May, 1 P.M.	Gambhrala mine, Dandot P. O., Punjab.	R. S. L. Thakurdas Ramjidas.	Drab, (m.), 48, Miner.	Coal	A miner went through a fence to rob coal from a long wall face from which the props supporting the roof had been removed. A mass of roof stone fell and killed him. Inspection and inquiry made.



82	12th June, 3-30 A. M.	Chowrasse mine, Dishergarh P. O., Bihar and Orissa.	Equitable Coal Co., Ld.	Bara Khanda Multick, (m.), 25, <i>Coal-cutter.</i>	Coal	Whilst a miner was cutting coal from a pillar he was killed by a mass of stone, 6' 6" x 2' 9" x 4", which fell from the roof—a height of 6½ feet. Inspection and inquiry made.
83	14th June, 5-30 P. M.	West Gopalichuck mine, Kusunda, P. O., Bihar and Orissa.	Gopalichuck Coal Co., Ld.	Chamra Bilaspuri, (m.), 35, <i>Coal-cutter.</i>	Coal	Whilst a miner was loading coal near the face of a pillar under extraction a mass of roof coal, 4' x 1' 6" x 9", fell from between two "slips" at a height of 18 feet. He sustained injuries which caused death two days later. Inspection and inquiry made.
84	16th June, 9-45 A. M.	Deoli mine, Dishergarh P. O., Bihar and Orissa.	Deoli Coal Co., Ld.	Loku Manjhi, (m.), 25, <i>Coal-cutter.</i> Dangee M. Jhian, (f.), 17, <i>Coal-carrier.</i>	Coal	Whilst two workmen were loading a tub on a tram level they were killed by a mass of coal 23' x 10' x 2', which fell from a "slip" in the roof—a height of 10 feet. Inspection and inquiry made.
85	27th June, 11-30 A. M.	Newton Chickli mine, Parasia P. O., Central Provinces.	Newton Chickli Collieries, Ld.	Bhaggo Gudariya, (m.), 25, <i>Coal-cutter.</i>	Coal	Deceased was passing through an underground gallery when a mass of roof, 21' x 21' x 6", fell from a height of 8 feet. He was killed instantly. Inspection and inquiry made.
86	2nd July, 11 A. M.	Pat-rohna mine Sitarampur P. O., Bengal.	North Damuda Coal Co., Ld.	Baru Bauri, (m.), 19, <i>Stone-cutter.</i>	Coal	Whilst a miner was at work in a gallery 7 feet high a mass of shalo, 16' x 5' x 1' 3", fell from between two "slips" in the roof. He was severely injured and died an hour later. As gallery had been driven parallel and adjacent to a dyke supports should have been set whether they appeared to be necessary or not. Inspection and inquiry made.
87	7th July, 12-15 A. M.	Monoharbahal mine, Asansol P. O., Bengal.	Chandanmull Indra kumar.	Kalipada Mukharji, (m.), 21, <i>Mining Appren- tice.</i>	Coal	Deceased was sleeping in a gallery 17 feet wide and 6 feet high when a mass of coal, 28' x 17' x 10", fell from the roof and killed him instantly. Eight props had been set under the part that fell. Inspection and inquiry made.
88	12th July, 8-15 P. M.	S. vectoria mine, Dishergarh P. O., Bengal.	Bengal Coal Co., Ld.	Giri Baurin, (f.), 31, <i>Coal-carrier.</i>	Coal	In a place from which a pillar of coal had been extracted a fall of roof took place and knocked out a prop in an adjoining working place. A woman was struck by the prop and killed. Inspection and inquiry made.
89	20th July, 4 A. M.	Sikdardih mine, Giridih P. O., Bihar and Orissa.	Bayra Coal Asso- ciation.	Kancoo Rai, (m.), 37, <i>Coal-cutter.</i> Behari Rai, (m.), 15, Mukti Ghatwarin, (f.), 35, Sumri Mussarin, (f.), 16, <i>Coal-carrier.</i>	Coal	In a part of a mine where pillars were being extracted a working place had become unsafe, and work in it had been prohibited. Four workmen who had entered it with the object of salvaging fallen coal were killed instantly by the fall of a large mass of roof stone. Inspection and inquiry made.

APPENDIX II—*contd.*

Fatal Accidents during the year 1929—*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.
<b>FALLS OF ROOF AND SIDES—<i>contd.</i></b>						
<b>(a) Falls of roof—(99 deaths)—<i>contd.</i></b>						
40	9th August, 3-40 P.M.	Lodna mine, Jharia P. O., Bihar and Orissa.	Lodna Colliary Co. (1920), Ld.	Dulari Pasin, (f.), 39, <i>Loader.</i>	Coal	A miner was cutting roof coal 6½ feet thick in a gallery 24 feet high when a mass of coal, 6' 6" × 4' × 3', fell unexpectedly. Deceased who was sitting at a distance of 18 feet was struck by a piece of coal and killed instantly. Inspection and inquiry made.
41	3rd September, 7-45 A.M.	Sitalpur mine, Dishergarh P. O., Bengal.	Bengal Coal Co., Ld.	Meghu Barhi, (m.), 35, Duli Chamar, (m.), 50, <i>Propping Mistries.</i>	Coal	Whilst two timbermen were withdrawing props from a goaf, a mass of coal and stone, 30' × 20' × 3', fell from a height of 13 feet. One of the timbermen was killed instantly and the other was fatally injured. Inspection and inquiry made.
42	6th September, 10-50 A.M.	Tikah mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ld.	Babu-Nandan, (m.), 35, <i>Loader.</i>	Coal	Some loaders were removing coal from an "opening" or chamber, 15 feet high, when a number of shots were fired in an adjacent "opening" 30 yards away. Immediately after the shots were fired, a piece of coal weighing 28 lb. fell from the roof and struck one of the loaders fatally injuring him.  The men should have been withdrawn from the "opening" while shots were being fired in the adjacent "opening". Inspection and inquiry made.
43	14th September, 1 A.M.	Bonahir mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ltd.	Toofani Singh, (m.), 40, <i>Coal-cutter.</i>	Coal	Whilst breaking up blasted coal in a gallery, deceased was struck and fatally injured by a piece of coal, 2' 6" × 1' 8" × 3", which fell from a height of 25 feet. Inspection and inquiry made.
44	4th October, 6 P.M.	Borrea mine, Sitarampur P. O., Bengal.	New Beerbhoomi Coal Co., Ltd.	Pahalan Kora, (m.), 25, <i>Coal-cutter</i> ; Mnku Korini, (f.), 45, <i>Coal-carrier.</i>	Coal	A miner and a coal-carrier passed through a fence and were robbing coal from the corner of a pillar when a mass of stone, 6' 4" × 3'—9", fell on them from a height of 6 feet. The miner was killed instantly and the coal-carrier received severe injuries from which she died six days later. Inspection and inquiry made.

45	5th October, 11-30 P. M.	Charanpur mine, Charanpur P. O., Bengal.	Apar Collieries, Ltd.	Mahadi Towari, (m.), 40, <i>Labourer.</i>	Coal	Whilst a propping cooly was assisting to erect some props at the edge of a goaf he was struck by a piece of coal, 4' x 4' x 2' 6" which fell from the roof—a height of 14 feet. He was struck and fatally injured. Inspection and inquiry made.
46	15th October, 1 P. M.	Datla mine, Junnorcoo P. O., Central Provinces.	Amalgamated Coalfields, Ltd.	Durgo Dhimran, (f.), 14, Eutna Gondni, (f.), 15, Nawadi Purdani (f.), 35, Munshi Purdani, (m.), 17, <i>Coal-fillers.</i>	Coal	Contrary to orders a sirdar allowed two miners and several coal-fillers to work in a gallery in which the manager had stopped work on the previous day. Whilst the gang was at work, a mass of stone, 13' x 9' x 8", fell from the roof—a height of 7½ feet. Four of the coal fillers were killed instantly, and two were injured. Inspection and inquiry made.
47	21st October, 10 A. M.	Mahakali mine, Chanda P. O., Central Provinces.	Hajeebhoy Laljee & Co.	Bakuloo, (m.), 15, <i>Labourer.</i>	Coal	A coal-filler was sitting by the side of a gallery when he was struck and fatally injured by a piece of roof coal, 2' x 2' x 4', which fell from a height of 9 feet. Inspection and inquiry made.
48	8th November, 12-30 A. M.	Amlabad mine, Jeaigora P. O., Bihar and Orissa.	Eastern Coal Co., Ltd.	Ibrahim Meah, (m.), 38, <i>Machine coal dresser;</i> Tania Ghatwarin, (f.), 40, <i>Coal-carrier.</i>	Coal	Whilst coal was being cut and loaded in a machine-cut gallery a mass of undercut coal, 13' x 3' x 2'-6", fell from a height of 5 feet. A miner was killed outright and a woman was fatally injured. The overhanging coal had been spragged, but the sprags failed to prevent its fall. Inspection and inquiry made.
49	14th November.	Akhalpur mine, Charanpur P. O., Bengal.	Hurriladhi Coal Co., Ltd.	Lachu Kolo, (m.), 35, <i>Coal-cutter,</i> Batu Kolo, (m.), 28, Antu Pariah, (m.), 26, <i>Coal-carriers.</i>	Coal	Whilst roof coal was being got down in a depillaring area in a seam 9 feet thick a mass of coal, 20' x 20' x 1' to 4' thick, fell without warning from the roof. Two miners who were loading baskets with coal under the edge of the roof coal which fell were crushed and killed instantly and another was fatally injured. Inspection and inquiry made.
50	19th November, 2 30 A. M.	Serampur mine, Giridih P. O., Bihar and Orissa.	East Indian Rail- way.	Kehar Chamar, (m.), 24, Sukhu Manjhi, (m.), 40, Abdul Meah, (m.), 25, Pania Dosadhin, (f.), 18, Dakhia Dosadhin, (f.), 20.	Coal	Preparatory to its extraction a pillar of coal, 50 feet square, had been split into four. The splits were being timbered when one of the four quarters of the pillar adjoining an old goaf crushed out. The deceased were buried and killed. Subsequent inspection showed that the collapse was due to the fact that on three sides of the quarter pillar there were "slips" which could not have been detected beforehand. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1929—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.
<b>FALLS OF ROOF AND SIDES— contd.</b>						
<i>(a) Falls of roof—(99—deaths)—contd.</i>						
51	3rd December, 1 P.M.	Bararee (No. 2 Division) mine, Jealgora P. O., Bihar and Orissa.	East India Coal Co., Ld.	Tejram Chamar, (m.), 26, Coal-carrier.	Coal	A shot had been fired in the roof coal of a gallery and the roof had been tested and was considered to be safe. A loader entered the place and was about to commence loading when a mass of coal, weighing about 6 cwt. unexpectedly fell from a height of 8 feet and killed him instantly. Inspection and inquiry made.
52	8th December, 4-30 A.M.	Alkusa and Kiska mine, Kusunda P. O., Bihar and Orissa.	Kauga & Co.	Munshi Meah, (m.), 29, Coal-cutter.	Coal	Whilst loading coal which had been blasted down from the corner of a pillar about half an hour previously, a miner was fatally injured by a mass of roof-coal, 1' 6" x 1' 5" x 10", which fell unexpectedly from a height of about 28 feet. Inspection and inquiry made.
53	10th December, 3 P.M.	Lodna mine, Jharia P. O., Bihar and Orissa.	Lodna Colliery Co. (1920), Ld.	Jumna Singh, (m.), 36, Abilns Mahto (m.), 20; Sooni Mahtwan, (f.), 22; Nesoda Mahtwan, (f.), 43; Kheni Mahtwan, (f.), 25.	Coal	Four miners and five coal-carriers were working in a gallery, when a mass of roof stone, 20' x 12' x 3'—1' 6", fell from a concealed "slip" at height of 24 feet. Four of the carriers and one of the miners were killed on the spot and another miner was severely injured. Inspection and inquiry made.
54	10th December, 8-45 P.M.	Jamuria mine, Charanpur P. O., Bengal.	Equitable Coal Co., Ld.	Bachan Singh, (m.), 30, Machine man.	Coal	A man in charge of coal cutting machine was at work in a gallery—7 feet high when he was struck and seriously injured by a wedged shaped mass of coal, 4' x 1' 6" x 1' 3", which fell unexpectedly from between two "slips" in the roof. The injuries caused death two weeks latter. Inspection and inquiry made.
55	18th December, 4-45 P.M.	Bawdin mine, Nanttu P. O., Burma.	Burma Corporation, Ld.	Jagu Naik, (m.), 30, Miner.	Silver-lead-zinc.	Decreased was killed by a fall of roof in an underground stopes. Inspection and inquiry made.

56	19th December. 5-30 A. M.	Charanpur mine, Charanpur P. O., Bengal.	Apoor Collieries, Ld.	Dharika Turi, (m.), 32, Coal-cutter.	Coal	In spite of orders to the contrary, two miners working in a depilating area, in a seam 18 feet thick fired a shot in some overhanging roof coal. The shot proved ineffective. While one of the miners went to find the sirdar, the other entered the place and was killed by a mass of coal, weighing about 12 tons, which fell from the roof. It was presumed that deceased had mounted a ladder, and was attempting to lever down the overhanging coal. Inspection and inquiry made.
57	24th December, 8-15 A. M.	East Nandi mine, Toposi P. O., Bengal	East Nandi Coal Co., Ld.	Bidhan Santal, (m.), 22, Coal-cutter.	Coal	For a natural purpose two miners went through a fence into a gallery in which the roof was insecure. A mass of stone, 36' x 11' x 1', fell from the roof killing one man and seriously injuring the other. Inspection and inquiry made.
58	25th December, 3 A. M.	Tirap mine, Margherita P. O., Assam,	Assam Railways and Trading Co., Ld.	Bachu Paasi, (m.), 31, Coal-cutter.	Coal	A miner was cutting coal in an "opening" or chamber, 7 feet high, when the sirdar presort heard sounds of movement, and ordered him to leave the "opening". As he was doing so he was struck and seriously injured by a piece of stone which fell from the roof. Pneumonia supervening he died nine days later. Inspection and inquiry made.
59	28th December, 8-50 A. M.	Moraboni mine, Ghatails P. O., Bihar and Orissa.	Indian Copper Cor- poration, Ld.	Surja, (m.), 30; Ran Bahadur, (m.), 30, § Labourers.	Copper	Whilst men were at work in a stope a mass of stone, 15' x 15' x 2', fell from a "slip" in the hanging wall at a height of about 7 feet. Two men were killed and one was injured. Inspection and inquiry made.
60	28th December, 10-50 A. M.	Aldih mine, Sitarampur P. O., Bengal.	Aldih Coal Co., Ld.	Ratani Baurin, (f), 28, Coal-carrier.	Coal	Whilst a coal-carrier was loading a basket in a gallery she was struck by a piece of coal, 2' x 1' 6" x 6", which fell from the roof—a height of 8 feet. The sustained injuries which subsequently caused death. Inspection and inquiry made.

(b) Falls of sides—(54 deaths.)

61	1st January. 8 A. M.	Pookoo mine, Kusunda P. O., Bihar and Orissa.	Eastern Coal Co., Ld.	Bhola Dosadh, (m.), 33; Sabran Dosad, (m.), 26, Coal-cutter.	Coal	Whilst two miners were loading coal in a working gallery, 15' wide and 14' high, a slab of coal, 14' x 8' x 1' 6", fell on them from the side. They were killed instantly. Inspection and inquiry made.
62	1st January, 1-30 P. M.	Upper Jinagora mine, Jharis P. O., Bihar and Orissa.	New East India Press Co., Ld.	Surji Mali, (m.), 22, Coal-cutter.	Coal	A miner although not authorised to fire shots fired a shot in a gallery. Whilst he was dressing down the coal after blasting a mass of coal fell on him from a "slip" in the side. He sustained serious injuries to which he succumbed twelve hours later. Had he waited for the authorised shot-firer to fire the shot the accident might have been avoided. Inspection and inquiry made.

APPENDIX II—*contd.*

Fatal Accidents during the year 1929—*contd.*

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of persons killed.	Name of mineral worked.	Cause of accident and remarks.
<b>FALLS OF ROOF AND SIDES—<i>contd.</i></b>						
<i>(b) Falls of sides—(54 deaths)—<i>contd.</i></i>						
63	4th January, 3-30 P. M.	Belam & Simaritari (Prospecting) mine, Rajauli P. O., Bihar and Orissa.	Chattu Ram Darsan Ram.	Tetar Rai, (m.), 30, Labourer.	Mica	Whilst at work in an open excavation deceased was buried under a mass of earth, 12' x 9' x 6', which fell from the side. He received injuries to which he succumbed about an hour later. Inspection and inquiry made.
64	9th January, 4-30 P. M.	Benahir mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ld.	Surja Pasi, (m.), 50, Loader.	Coal	Whilst loading coal underground a miner was struck and fatally injured by a piece of coal, weighing about 80 lb., which fell unexpectedly from a height of 25 feet. Inspection and inquiry made.
65	26th January, 1-30 A. M.	Sitalpur mine, Dishergarh P. O., Bengal.	Bengal Coal Co., Ld.	Daulat Chamar, (m.), 32, Coal-cutter.	Coal	Whilst dressing the corner of a reduced pillar of coal in a depillaring section a coal-cutter caused a mass of coal, weighing about 1½ tons, to fall away from a cleat. Some of the coal fell on him from a height of 7 feet, and he sustained a fracture of the spine. He died ten days later. Inspection and inquiry made.
66	29th January, 2 P. M.	Square No. K-32 mine, Kodarma P. O., Bihar and Orissa.	Brindaban Indus- trial Syndicate, Ld.	Bhatua Turi, (m.), 21, Miner.	Mica	At a time when work in the mine was stopped for a week-end rest day, a miner went through a fence and entered an unused old shaft for the purpose of robbing mica. Whilst he was engaged in extracting a block of mica from the side of the shaft a mass of stone fell. He was struck on the head by a lump of stone, 3' x 2' x 1' 3', and was killed instantly. Inspection and inquiry made.
67	29th January, 7 P. M.	Hurriladih mine, Jealgora P. O., Bihar and Orissa.	Equitable Coal Co., Ld.	Khepi Mejhian, (f.), 35, Coal-carrier.	Coal	Whilst engaged in carrying coal from a working place, a woman was struck and fatally injured by a mass of coal, 6' x 4' x 9", which fell from the side of a pillar. Inspection and inquiry made.
68	29th January, 8 P. M.	Island (Yemon) mine, Mergui P. O., Burma.	Mergui Tin Dred- ging Co., Ld.	Ah Khat (m.), 50, Miner.	Tin	After undercutting a face, 12 feet high, to a depth of 2 feet a miner who was in charge of a monitor left it playing on the foot of the face whilst he proceeded to within 15 feet of the face to remove stones from the end of a sluicing drain. A mass of earth, 16' x 12' x 4', which fell from the face buried him and he died from suffocation before he could be released. Inspection and inquiry made.

59	31st January, 4 P. M.	Madnadih mine, Kharagdiha P. O., Bihar and Orissa.	D. Storrs	Bisu Manjhi, (m.), 24, Labourer.	Mica	Whilst a workman was engaged in clearing debris from an old quarry, 15 feet deep, a fall of side, 12' x 10' x 2', occurred. He was buried under the falling earth and suffocated. Inspection and inquiry made.
70	27th February, 3-30 P. M.	Parbella mine, Dishergarh P. O., Bihar and Orissa.	Bengal Coal Co., Ltd.	Takoore Manjhi, (m.), 20, Coal-cutter.	Coal	Near the face of a gallery 10 feet wide x 8 feet high, a miner was resting on the handle of his pick when a slab of coal, 10' x 3' x 3' thick, fell from the side. He fell on the handle and sustained internal injuries which caused death four days later. Another miner was injured by the falling coal. Inspection and inquiry made.
71	27th February, 3-30 P. M.	Kandivli mine, Kandivli P. O., Bombay.	Mugaseth & Sons.	Aku Baga, (m.), 25 ; Poshanua Rajanna, (m.), 38, Labourers.	Murrum	A fall of side occurred in a cutting, about 7 feet deep, in which persons were working. Two were buried by the fall and received fatal injuries. Inspection and inquiry made.
72	7th March, 8-15 A. M.	Barari (No. 2 Division) mine, Jaisalora P. O., Bihar and Orissa.	East Indian Coal Co., Ltd.	Gaya Ram Kurmi, (m.), 55, Loader.	Coal	In a seam 28 feet thick a loader was filling a basket with coal, near the foot of a pillar under extraction when a miner wedged a mass of some 1 to 2 cwt. of coal from the side of the pillar. This coal fell from a height of 8 feet and struck the loader, who sustained a fractured skull and died eight hours later. Inspection and inquiry made.
73	12th March, 4-30 P. M.	Taungzun mine, Taungzun P. O., Burma.	Osman Mustikhan & Co.	Ko Show Hlaing, (m.), 50, Quarryman.	Stone	Whilst a quarryman was barring stone off the lower part of the face of a quarry, a block of stone, 4' x 3' x 2', rolled on to his left leg, crushing it severely. He died two hours later. Inspection and inquiry made.
74	13th March, about 3-30 P. M.	Kankanee mine, Bansjora P. O., Bihar and Orissa.	Eastern Coal Co., Ltd.	Lakhiram Manjhi, (m.), 21, Coal-cutter.	Coal	Deceased was killed by a mass of coal weighing about 8 tons which fell from the side of a pillar. Inspection and inquiry made.
75	15th March, 11-15 P. M.	Bhalgora mine, Jnaria P. O., Bihar and Orissa.	Bhalgora Coal Co., Ltd.	Boran Kahar, (m.), 35, Coal-cutter.	Coal	Deceased was dressing down coal from the side of a pillar after blasting when a mass of coal, weighing about 1 cwt., fell on him from a height of four feet. He sustained injuries to which he succumbed five days later. Inspection and inquiry made.
76	15th April, 10-30 A. M.	Kalithan Gurgaon mine, Bhojudih P. O., Bihar and Orissa.	K. B. Seal & Sons.	Mugli Surin, (f.), 24, Coal-carrier.	Coal	Deceased was killed by a mass of coal, 10' x 2' x 2', which fell from a "slip" in the side of a pillar at a height of 6 feet. A miner working nearby was injured. Had the side of the pillar been properly dressed down the accident would have been avoided. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1920—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of persons killed.	Name of mineral worked.	Cause of accident and remarks.
<b>FALLS OF ROOF AND SIDES—contd.</b>						
<b>(b) Falls of sides—(54 deaths)—contd.</b>						
77	23rd April, 3 P. M.	Meenakshisundaram mine, Sydapuram P. O., Madras.	P. V. Raghava Reddi.	Sheik Kasim Sahab, (m.), 22, Labourer.	Mica	Deceased was walking along a path leading down into an open excavation when the path way collapsed. He fell a distance of 12 feet and was fatally injured. Had the sides of the excavation been properly stopped or sloped the accident would have been avoided. Inspection and inquiry made.
78	25th April, 12-15 P. M.	West Gopalichuck mine, Kusunda P. O., Bihar and Orissa.	Gopalichuck Coal Co., Ltd.	Gobardhan Kahar, (m.), 35, Timberman.	Coal	Seven persons were ascending a shaft, 16 feet diameter and 340 feet deep, in a cage, and had reached a point 180 feet from the surface when a mass of stone 1' 6" x 1' 6" x 6", fell from a "slip" in the side of the shaft at a depth of 50 feet and, striking the cage, broke through the sheet iron cover. One man was forced beneath the horizontal bars of the cage gate and fell to the bottom of the shaft. Another was struck by the stone and seriously injured. Inspection and inquiry made.
79	30th April, 11 A. M.	Pathrapara mine, Pakaur P. O., Bihar and Orissa.	Shewdhan Tewari	Litua Mochi, (m.), 27, Stone dresser.	Stone	Whilst a stone dresser was excavating stone from a quarry 12 feet deep, he was struck by a mass of boulders which fell from the side, a height of 6 feet. He was struck and fatally injured. Inspection and inquiry made.
80	2nd May, 12-30 A. M.	Bhuggudih mine Jbaria P. O., Bihar and Orissa.	Bengal-Nagpur Coal Co., Ltd.	Pravoo Menah, (m.), 45, Coal-cutter.	Coal	Whilst working in a depillaring district deceased was struck on the back by some coal weighing about 56 lb. which fell from the side of a pillar. He sustained serious injuries and died six days later. Inspection and inquiry made.
81	3rd May, 12-30 P. M.	Mogok Valley (Enjouk) mine, Mogok P. O., Burma.	Burma Ruby Mines, Ltd.	Aik Pyin, (m.), 16, Tribulator.	Rubbles	In jumping aside to avoid a boulder which he had dislodged from the face of a quarry deceased fell on a sharp pointed rock. He received injuries from which he died two months later. Inspection and inquiry made.



82	7th May, 1 P. M.	Kalabagh mine, Kalabagh P. O., Punjab.	Government India.	of	Ghulam Hassan, (m.), 35, Miner.	Salt	A miner was sorting salt which had been blasted from the side of a chamber when a piece of salt, weighing about 2 lb. fell from a point 30 feet above and struck him on the head inflicting fatal injuries. Had the place been carefully examined after the blasting the accident might have been avoided. Inspection and inquiry made.
83	12th May, 5-30 A. M.	Amlabhad mine, Jenagora P. O., Bihar and Orissa.	Eastern Coal Co., Ld.		Dukhan Mahato, (m.), 35, Coal cutter.	Coal	A mass of coal weighing about one ton fell from the side of a tramming level and striking deceased, fatally injured him. Inspection and inquiry made.
84	14th May, 4 P. M.	Chasnalla mine, Pa'hardih P. O., Bihar and Orissa.	Chasnalla Coal Co.		Joti Banri, (m.), 35, Coal-cutter.	Coal	Deceased was cutting floor coal in a gallery when a mass of coal, 5' x 4' x 3', fell from between two concealed and converging "slips" at a height of 6 feet. He was killed instantly. Inspection and inquiry made.
85	27th May, 2 P. M.	Angarpathra mine, Katraigarh P. O., Bihar and Orissa.	Union Coal Co., Ld.		Chota Mesh, (m.), 27, Coal-cutter.	Coal	Whilst deceased was loading coal from a pillar under extraction he was struck by a mass of coal, weighing about 1 cwt., which fell from the side at a height of 8 feet. He sustained injuries to which he succumbed about a month later. Inspection and inquiry made.
86	31st May, 4-30 A. M.	Sethoa (Sq. 20g.) mine, Kodarma P. O., Bihar and Orissa.	S. K. Sahaia & Sons.		Dillon Gope, (m.), 32, Miner.	Mica	Whilst at work in the bottom of a winze two miners were seriously injured by a mass of stone, 4' 6" x 2' 6" x 1' which fell from the side. One of them died eleven days later. Inspection and inquiry made.
87	31st May, 5 P. M.	Chowrasio mine, Dishergarh P. O., Bihar and Orissa.	Equitable Coal Co., Ld.		Tara Manjhi, (m.), 30, Coal-cutter.	Coal	Whilst a miner was sitting at the face of a pillar, which was in course of extraction, a piece of coal, 3' x 1' 6" x 6", fell from a height of 3 feet. He received injuries from which he died. Inspection and inquiry made.
88	15th June, 12 noon.	Damagurria mine, Kulti P. O., Bengal.	Damagurria Coal Co., Ld.	Coal	Sitaram Gope, (m.), 35, Coal-cutter.	Coal	When a pillar of coal on the edge of a large quarry had been reduced to small dimensions it collapsed and a mass of coal, 67' x 12' x 15', fell away from a "slip" which ran parallel to the face of the quarry. A miner, who was at work on a bench 17' above the floor of the quarry, fell with the falling coal and was fatally injured. The accident would not have occurred if underground workings had not previously been made. Inspection and inquiry made.
89	16th June, 1-30 A. M.	Rennahir mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ld.		Kannani Korain, (f.), 30, Coal-carrier.	Coal	Whilst loading coal a female coal-carrier was struck and killed instantly by a mass of coal weighing about 2½ tons, which fell from the corner of a pillar which had been loosened by blasting. Had she and her companions remained in their proper working place the accident would not have occurred. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1929—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.
<b>FALLS OF ROOF AND SIDES—contd.</b>						
<i>(b) Falls of sides—(54 deaths)—contd.</i>						
90	19th June, 2 P.M.	New Kusunda mine, Kusunda P. O., Bihar and Orissa.	New Kusunda Col- liery, Ld.	Dami, (f.), 17. Coal-carrier.	Coal	Whilst deceased was loading coal in a quarry at a "face" which had been undercut, a mass of coal and earth, 20' x 3' 6" x 9' fell from the side. She was buried and suffocated. Inspection and inquiry made.
91	28th June, 10 A.M.	Tanngpila mine, Tavoy P. O., Burma.	Consolidated Tin Mines of Burma, Ld.	Bale Singh, (m.), 35, Tributor.	Tin and Wolfram	Whilst engaged in sluicing operations on the side of a hill deceased released a large boulder which rolled down and fatally injured him. Inspection and inquiry made.
92	29th June, 11.30 P. M.	Neamatpur mine, Sitarampur P. O., Bougal.	Equitable Coal Co., Ld.	Sital Manjhi, (m.), 50, Coal-cutter.	Coal	A miner went through a fence and was robbing coal from the corner or pillar when he was struck and killed by a mass of coal weighing about half a ton which fell from a height of 6½ feet. Inspection and inquiry made.
93	5th July, 6.30 A. M.	Sripur mine, Kalipahari P. O., Bengal.	Lodna Colliery Co. (1920), Ld.	Ketue Bibi (f.), 22, Coal-carrier.	Coal	Whilst a woman was loading a basket with coal in a machine-out gallery, 6½ feet high, a mass of coal, 5' x 3' x 3', fell from the face near the roof, killing her instantly. Had the over-hanging coal been properly dressed down after blasting the accident would not have occurred. Inspection and inquiry made.
94	7th July, 11 A. M.	Hoida mine, Tavoy P. O., Burma.	Anglo-Burma Tin Co., Ld.	Nyan Kin, (m.), 35, Labourer.	Lead Silver.	Whilst two miners were erecting a set of timber at the entrance to an adit a fall of earth occurred and one of them was pinned between the post and the side of the adit. He died a few hours later. Inspection and inquiry made.
95	18th July, 7 A. M.	Lodna (4 & 5 pits) mine, Jharia P. O., Bihar and Orissa.	Lodna Colliery Co. (1920), Ld.	Jiton Meah, (m.), 32, Coal-cutter.	Coal	Whilst a miner was dressing the side of a pillar a mass of coal, 4' x 3' x 1' 6", fell on him from a height of about 6 feet, inflicting fatal injuries. A loader who was working near by was seriously injured. Inspection and inquiry made.
96	15th July, 11 A. M.	Mayangon mine, Taungzon P. O., Burma.	Ibrahim, Contractor	Ram Belas, (m.), 20, Miner.	Stone	Whilst levering stone from the face of a quarry deceased overbalanced and fell to the bottom of the quarry—a distance of 15 feet. He was struck and killed by a piece of stone which fell with him. Inspection and inquiry made.

97	18th July, 1 P. M.	Balapur Hamesha mine, Tumsar-Dongri P. O., Central Provinces.	Rai Sahib Seth Gowardhandas.	Jhunia Gondni. (f.), 30, Labourer.	Manganese	Whilst two women were at work in an open excavation, 6 feet deep, a mass of side, 11' x 4' x 4', fell and buried them. One of them was suffocated and the other suffered slight injuries. Inspection and inquiry made.
98	30th July, about 4 P.M.	Loyabad mine, Bansjara P.O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Janki Pasi. (m.), 28, Coal-cutter.	Coal	A miner was standing on a ladder dressing the side of a pillar when the fall of a piece of coal upset the ladder. He fell to the ground and sustained injuries from which he died two days later. Inspection and inquiry made.
99	27th August, 3-30 P.M.	Deoli mine, Dishergarh P.O., Bihar and Orissa.	Deoli Coal Co., Ld.	Nakul Bauri, (m.), 25, Coal-cutter.	Coal	Whilst "robbing" coal from a pillar at the side of a loading level a miner was fatally injured by a mass of coal weighing about $\frac{1}{2}$ ton, which fell from the side. Inspection and inquiry made.
100	26th August, 10 A.M.	Kalithan Gurgaon mine, Bhojudih P.O., Bihar and Orissa.	K. B. Seal & Sons	Chaitoo Bilaspuri, (m.), 36, Coal-cutter.	Coal	Deceased was cutting coal from the side of a pillar when a mass of coal, 5' x 3' x 3', fell upon him. He sustained injuries to which he succumbed eight days later. Inspection and inquiry made.
101	29th August, 9 A.M.	Rajlaha mine, Rajhara P. O., Bihar and Orissa.	Bengal Coal Co., Ld.	Horabansia Noonian. (f.), 80, Clay-carrier.	Fire clay	Whilst working in a section of a quarry in which working had been prohibited deceased was struck and fatally injured by a slab of clay, 2' x 1' x 1', which fell from the side at a height of about 7 feet. Inspection and inquiry made.
102	29th August, 4 P.M.	Dobari mine, Jhuria P. O., Bihar and Orissa.	Keshabji Pitamber & Bros.	Suku Bauri, (m.), 35, Coal-cutter.	Coal	Deceased was dressing down some overhanging coal from the side of a pillar when a mass of coal, about 3' x 3' x 3', fell from a height of 12 feet. He was killed on the spot. Inspection and inquiry made.
103	17th September, 9 A.M.	Kathe (Mogok) mine, Kyatpyin P. O., Burma.	Burma Ruby Mines, Ld.	Aung Lin, (m.), 25, Miner.	Rubies	In the process of sloping the sides of an open excavation a large fall of earth occurred. Deceased was buried and suffocated. Inspection and inquiry made.
104	23th September, 12 noon.	Bawdwin mine, Namtu P. O., Burma.	Burma Corporation, Ld.	Woo Hsiao Chin, (m.), 25, Miner.	Silver- lead-zinc	Whilst deceased was working in an underground stope a mass of ore fell from the face and carried away the stage on which he was standing. He fell a distance of 12 feet, and was killed instantly. Inspection and inquiry made.
105	6th October, 6 A.M.	Choto Dhemu mine, Sitarampur P. O., Bengal.	Bengal Coal Co., Ld.	Ranjit Kole, (m.), 40, Coal-cutter.	Coal	Whilst a miner was dressing the side of a pillar in a seam 14 feet thick a mass of coal, 2' x 1' x 9', fell on him from a height of 7 feet and caused injuries from which he died two hours later. Inspection and inquiry made.
106	9th October, 1 P.M.	Burra Dhemu mine, Sitarampur P. O., Bengal.	Burra Dhemu Coal Co., Ld.	Mouzi Mahata, (m.), 45, Coal-cutter.	Coal	Whilst a miner was resting in a depillaring area a mass of coal fell off the side of a pillar 8 feet away from him and dislodged a prop 12 feet long. The falling prop struck him and caused minor injuries. He died from tetanus fourteen hours later. Inspection and inquiry made.

**APPENDIX II—contd.**

**Fatal Accidents during the year 1920—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.
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**FALLS OF ROOF AND SIDES—contd.**

**(a) Falls of sides—(54 deaths)—contd.**

107	11th October, 8-30 A.M.	Kutoodhann mine, Sausar P. O., Central Provinces.	Indian Manganese Co., Ltd.	Vailla Iddar, (m.), 30, Driller.	Manga- nese.	In a level 12 feet high a driller was holding candle for a shotfirer who was dressing down some loose ore from the side when a small piece of ore fell and extinguished the candle. In trying to rocover the candle the driller was struck and killed instantly by a piece of ore, 3' x 1' x 6', which fell from a height of 5 feet. Inspection and inquiry made.
108	20th October, 2-30 A.M.	Upper Jinnagora mine, Jharia P. O., Bihar and Orissa.	New East India Press Co., Ltd.	Jagan Rai, (m.), 85, Coal-cutter.	Coal	Deceased was cutting floor coal in a gallery when a mass of coal, 12' x 10' x 12', fell on him from a "slip" at a height of 8 feet in the side of an adjoining pillar. He was killed instantly. Inspection and inquiry made.
109	4th November, 1 P.M.	Hurtiladih mine, Jeslgora P. O., Bihar and Orissa.	Equitable Coal Co., Ltd.	Sukhrum Kuri, (m.), 36, Coal-cutter.	Coal	A miner, after firing a shot in the side of a pillar of coal, returned to inspect the place, when a mass of coal, weighing about 1 ton, fell upon him from the side of the pillar. He was fatally injured. Inspection and inquiry made.
110	7th December, 10 P.M.	Bararoo mine, Jeslgora P. O., Bihar and Orissa.	East Indian Coal Co., Ltd.	Saroda Baurin, (f.), 40, Coal-carrier.	Coal	A woman passed through a fence and entered a gallery in which work had been prohibited. Whilst loading coal there she was fatally injured by a mass of coal, 2' 3' x 1' 3' x 10', that fell on her from the side at a height of about 10 feet. Inspection and inquiry made.
111	12th December, 0-15 A.M.	Benahir mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ltd.	Ramabatar Pashi, (m.), 30, Coal-cutter.	Coal	Whilst levering down the fractured corner of a pillar of coal, a miner was killed by a mass of about 2 tons of coal falling on him from the side at a height of about 7 feet. Inspection and inquiry made.
112	19th December, 0-30 P.M.	Benahir mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ltd.	Romadhin Chamar, (m.), 40, Coal-cutter.	Coal	After blasting had been done a miner was testing the fractured side of a pillar when a piece of coal, 3' x 2' x 2', slid down the testing pole and struck him so violently that he died within half an hour. Inspection and inquiry made.

IN SHAFTS (FALLING DOWN SHAFTS)—(8 deaths).

113	2nd January, 6-40 P.M.	Barari (No. 1 Division) mine, Jeaigora P. O., Bihar and Orissa.	East Indian Coal Co., Ltd.	Sukdeo Joswara, (m.), 27, Trammer.	Coal	For a purpose unknown deceased left his appointed working place in an upper seam, and, after passing through two fences, fell to the bottom of a shaft—a distance of 85 feet. He sustained injuries to which he succumbed eight hours later. Inspection and inquiry made.
114	5th January, 10 P.M.	Rampur mine, Rampur Colliery P. O., Bihar and Orissa.	Hingir Rampur Coal Co., Ltd.	Bhukhal Rout, (m.), 85; Cheroo Rout, (m.), 30, Trolleyman.	Coal	At the top of a shaft 115 feet deep two trolleyman were pushing a loaded tub off the trolley when the latter moved forward a distance of about 18 inches, thus uncovering the top of the shaft. Both men fell to the bottom of the shaft and were killed instantly. 'Dogs' and catches had been provided. If they had been properly set the accident would have been avoided. Inspection and inquiry made.
115	24th January, 11 A.M.	Ghusick mine, Kalipahari P. O., Bengal.	Ghusick Coal Co.	Abinash Adhikari, (m.), 25, Assistant fitter.	Coal	Two fitters were testing a sinking pump suspended in a waterlogged shaft when the joint of a steam pipe burst. One of the men was scalded and fell into the water. In attempting to rescue him the other man fell into the water and was drowned. Inspection and inquiry made.
116	6th April, 8 A.M.	Mawson (Bodwinja) mine, Heho P. O., Burma.	Steel Brothers & Co., Ltd.	Siari Lall, (m.), 38, Miner.	Lead Silver	While descending a ladderway in a shaft 100 feet deep deceased fell from about half way down and was killed. Inspection and inquiry made.
117	11th July, 7 A.M.	West Gopaliobuck mine, Kusunda P. O., Bihar and Orissa.	Gopalobuck Coal Co., Ltd.	Bahamali, (m.) 22, Labourer.	Coal	A labourer was at work in an inset 274 feet above the bottom of a shaft. There was a platform from which a plank had been removed on the previous day. Failing to notice the hole in the platform he fell to the bottom of the shaft and was killed.  The plank should have been replaced or access to the platform prevented by fencing. Inspection and inquiry made.
118	18th July, 3 A.M.	Mouharbahal mine, Aasansol P. O., Bengal.	Chandanmull Indrakumar.	Fakir Dasadh, (m.) 59, Banksman.	Coal	The banksman at the top of a shaft failed to put the keps in position for landing the cage. The cage therefore descended a distance of some 8 feet before the engineman could stop it. The banksman who had commenced to push a loaded tub out of the cage before the cage had been lowered on to the keps fell to the bottom of the shaft 360 feet below and was killed instantly. The banksman should not have attempted to withdraw the tub until the cage had been brought to rest on the keps. Had the keps been weighted so that they fell into position automatically the accident would have been avoided. Inspection and inquiry made.

**APPENDIX II—contd.**

**Fatal Accidents during the year 1929—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.
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**IN SHAFTS (FALLING DOWN SHAFTS)—contd.**

119	20th December, 3 P. M.	Potphulawa mine, Tisri P. O., Bihar and Orissa.	F. F. Chrestion & Co., Ld.	Bhatu Rai, (m.), 21, <i>Unskilled miner.</i>	Mica	Whilst climbing down a ladderway in a shaft, 60 feet deep, deceased fell to the bottom of the shaft and was killed instantly. Inspection and inquiry made.
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**IN SHAFTS (THINGS FALLING DOWN SHAFTS)—(2 deaths).**

120	17th April, 8-45 P. M.	Kendwadih mine, Kusunda P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Bunshi Turi, (m.), 31, <i>Trolleyman.</i>	Coal	A trolleyman was in the act of pulling out an empty tub from a cage standing at the bottom of shaft, 238 feet deep, when he was struck on the head and killed by a piece of coal, weighing about 3 lb., which had fallen from the surface. Inspection and inquiry made.
121	25th September, 5 A. M.	Sripur mine, Kalipahari P. O., Bengal.	Lodna Colliery Co. (1920), Ld.	Tara Singh Manjhi, (m.), 25, <i>Shaftman.</i>	Coal	After a guide rope had broken at the bottom of a shaft 975 feet deep, the broken end was lifted to the surface by one of the cages, thus leaving a loop suspended in the shaft. At about mid-shaft a piece of buntion, 8' x 1' x 4", was struck and dislodged by the loop. A shaftman crossing the bottom of the shaft at the time was struck by the falling buntion and fatally injured. Inspection and inquiry made.

**IN SHAFTS (MISCELLANEOUS)—(3 deaths.)**

122	24th February, 8-50 A. M.	Dhobidih mine, Giridih P. O., Bihar and Orissa.	Bengal Giridih Coal Co., Ld.	Tufani Meah, (m.), 32, <i>Onsetter.</i>	Coal	Whilst attending to an injector at the bottom of a shaft an onsetter was crushed beneath the descending cage and killed. Inspection and inquiry made.
123	7th July, 10 A. M.	Silpur mine, Charanpur P. O., Bengal.	Katras-Jherriah Coal Co., Ld.	Gariba Dhobi, (m.), 35, <i>Coal-rutter.</i>	Coal	A miner attempted to cross the bottom of a shaft while the cages were in motion. He was struck by the descending cage and sustained serious injuries from which he died one month later. Deceased should have used the by-pass, Inspection and inquiry made.

124	13th July, About 9-30 P.M.	Loyabad mine, Bansjora P. O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Maheudi Domo, (m.), 28, Tramman.	Coal	Whilst waiting at the bottom of a shaft for the cage to descend deceased put his head beyond the protection boards in order to look up the shaft. The descending cage struck him on the head and he sustained an injury which later proved fatal. Inspection and inquiry made.
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#### SUFFOCATION BY GASES—(2 deaths.)

125	11th August, 2 A.M.	Bhulanbararou mine, Pathardih P. O., Bihar and Orissa.	Bhulanbararou Coal Co., Ld.	Nitya Gopal Singh, (m.), 39, Overman,  Kedar Bauri, (m.), 59, Sirdar,	Coal	The deceased were inspecting the stopping surrounding a fire area when they were overcome by an outburst of gas from the fire area. Inspection and inquiry made.
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#### BY EXPLOSIVES—(9 deaths.)

126	23rd February, 12 Noon.	Wagon North mine, Tavoy P. O., Burma.	Consolidated Tin Mines of Burma, Ld.	Jung Bahadur, (m.), 35, Labourer.	Tin ore	In attempting to withdraw a mis-fired charge of 2½ oz. of gelignite from a vertical hole, 15 inches deep, a drill became jammed in the hole. A labourer who attempted to loosen the drill by striking it with a hammer was fatally injured when the charge exploded. Inspection and inquiry made.
127	20th April, 11 A.M.	Mokpalin mine, Mokpalin Quarries P. O. Burma.	Government of Burma, (Public Works Depart- ment),	Ramayah, (m.), 50, Labourer.	Stone	While blasting was going on deceased passed the danger signal and was killed by a piece of stone projected a distance of 890 feet from the place where the shot was fired. Inspection and inquiry made.
128	20th July, 9-59 A.M.	Barari (No. 2 Division) mine, Jeaigora P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Jagru Chamar, (m.), 36, Coal-cutter.	Coal	Deceased was drying gunpowder in a tin over a fire on the verandah of a dwelling house when the powder became ignited. He was seriously burnt and died five days later. Inspection and inquiry made.
129	22nd July, 2-30 A.M.	Datha mine, Junnordec P. O., Central Provinces.	Amalgamated Coal- fields, Ld.	Dhoulal Lodho, (m.), 27, Coal-cutter.	Coal	Although warned by the shot-firer deceased entered a gallery before the third of three shots had exploded. On his reaching the gallery the third shot exploded and he was fatally injured. Inspection and inquiry made.
130	31st July, 11-45 A.M.	Kankaone mine, Bansjora P. O., Bihar and Orissa.	Eastern Coal Co., Ld.	Bhatu Mesh, (m.), 35; Budhan Turi, (m.), 30, Sinkers.	Coal	Whilst nine men were at work in a sinking shaft an explosion took place and two of the men were killed and two seriously injured. It was presumed that one of the men had drilled into a misfired shot. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1949—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.
<b>BY EXPLOSIVES—(9 deaths.)—contd.</b>						
131	9th November, 5 P.M.	Datta mine, Jannordeo P. O., Central Provinces.	Amalgamated Coal- fields, Ltd	Nathn Dhima, (m.), 40, Shot-firer.	Coal	After the fuses of four shots of country gunpowder in a gallery had been lighted three explosions only were counted. Under the impression that two of the shots had exploded together the shot-firer returned to the place, and whilst he was there the fourth shot exploded and killed him. Inspection and inquiry made.
132	23rd November, 1 P.M.	Taxila mine, Taxila P. O., Panjab.	Government of Panjab, (P. W Department), Lahore.	Sharaf Din, (m.), 25 Quarryman	Limestone	Under the impression that he was out of danger a quarryman took refuge from blasting operations at a point too close to where they were being carried on. He was struck on the head by a piece of stone projected from a shot, and succumbed to his injuries on the following day. Inspection and inquiry made.
133	25th December, 2 A.M.	Dishergarh West mine, Dishergarh P. O., Bengal.	Equitable Coal Co., Ltd.	Budhan Singh, (m.), 38, Shot-firer.	Coal	Five gunpowder shots had been fired electrically at the face of a level, and a sixth shot had misfired. The shot-firer was attempting to withdraw the detonator from the misfired hole when the charge exploded, killing him instantly. Had deceased observed the Regulations laid down for shot-firing the accident would not have occurred. Inspection and inquiry made.
<b>HAULAGE—(31 deaths).</b>						
134	4th January, 6 P. M.	Lodna mine, Jharia P. O., Bihar and Orissa.	Lodna Colliery Co. (1920), Ltd.	Takhpattia Dosa- dhin, (f.), 45, Loader.	Coal	Whilst leaving the mine by a haulage incline, deceased was struck by a train of three empty tubs which was out of control and running wild. She sustained injuries which proved fatal. Inspection and inquiry made.
135	6th January, 9-45 A. M.	Jharia Khas mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ltd.	Agni Mubhemi, (f.), 75, Loader.	Coal	Whilst a woman was ascending a haulage incline she was overtaken by a train of loaded tubs and knocked down. She sustained serious injuries and died seven hours later. The accident would not have occurred if the woman had used the separate travelling way provided. Inspection and inquiry made.



136	24th January, 5 P. M.	Gua mine, Gua P. O., Bihar and Orissa.	Indian Iron & Steel Co., Ltd.	Dayanidhi Brahmin, (m.), 40, Labourer.	Iron ore	Whilst the rope on a self-acting incline was in motion deceased stood on the line with intention to oil one of the friction rollers. He was run over by the descending skip. Inspection and inquiry made.
137	26th February, 5 P. M.	Serampur mine, Giridih P. O., Bihar and Orissa.	East Indian Rail- way.	Jamila Jelhin, (f.), 16, Labourer.	Coal	Four tubs containing bricks were being unloaded on an under-ground endless haulage plane when the starting of the rope moved the tubs and caused one of the women engaged in unloading to be thrown to the ground. She received internal injuries which afterwards proved fatal. Inspection and inquiry made.
138	27th February, 11-30 P. M.	Saltore mine, Dishergarh P. O., Bihar and Orissa.	Burrakur Coal Co., Ltd.	A Bhabar Lal, (m.), 20, Tub-checker.	Coal	Whilst a train of three empty tubs was being lowered down an endless rope haulage on a grade of 1 in 6, the first tub uncoupled and ran wild for a distance of 600 feet where it derailed and knocked out a post supporting a brattice. Deceased was presumably struck by the post and injured. He died from tetanus five days later. Had an antitetanus injection been given on the day of the accident, his life would probably have been saved. Deceased should have used the travelling road provided for that purpose. Inspection and inquiry made.
139	28th March, 11 A. M.	Parbelia mine, Dishergarh P. O., Bihar and Orissa.	Bengal Coal Co., Ltd.	Kamra Bauri, (m.), 45, Trolleyman.	Coal	Whilst working on a tramline under-ground, deceased was struck by a tub which was being pushed by other trolleyman. He was seriously injured and, septicæmia supervening, died seven days later. Inspection and inquiry made.
140	4th April, 6 P. M.	Bararoo (No. 2 Divi- sion) mine, Jalgora P. O., Bihar and Orissa.	East Indian Coal Co., Ltd.	Kulsum, (f.), 40, Labourer.	Coal	Whilst a train of ten loaded tubs was being raised up an incline of 1 in 12 a drawbar broke and seven tubs ran wild. Deceased who had no authority to be on the haulage incline was struck and fatally injured. Inspection and inquiry made.
141	6th April, 12-15 P. M.	Ekra Khas mine, Bansjora P. O., Bihar and Orissa.	Maharaja of Coasim- bazar.	Budhon Chamar, (m.), 38, Hookman.	Coal	A train of nine loaded tubs was being hauled from a mine up a gradient of 1 in 5 when the coupling of the second tub failed and eight tubs ran wild. A hookman who was on the haulage road was struck and fatally injured. Inspection and inquiry made.
142	7th April, 5-30 A. M.	South Kujama mine, Jharia P. O., Bihar and Orissa.	Bagdiggi-Kujara Collieries, Ltd.	Khira Gope, (m.), 27, Trammer.	Coal	Whilst engaged in tramming two loaded and spragged, but uncoupled, tubs on an under-ground tramline with a gradient of 1 in 12 deceased was knocked down by the second tub. He sustained injuries to which he succumbed four days later. Inspection and inquiry made.

APPENDIX II—*contd.*

Fatal Accidents during the year 1929—*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.
<b>HAULAGE—<i>contd.</i></b>						
143	12th April, 6 A.M.	Bawdwin mine, Namtu P. O., Burma.	Burma Corporation, Ld.	Nanu Ram, (m.), 42, <i>Brakesman.</i>	Silver, lead-zinc.	Whilst a train of a loaded cars and empty trolleys was in motion the brakesman fell off and was run over, receiving injuries from which he died seven months later. Had deceased obeyed the standing instruction to ride on the last trolley in the train the accident would not have occurred. Inspection and inquiry made.
144	24th April, 2-30 P.M.	Burra Dhemio mine, Sitarampur P. O., Bengal.	Burra Dhemio Coal Co., Ld.	Ram Kishore Singh, (m.), 43, <i>Labourer.</i>	Coal	A number of empty tubs running uncontrolled on an underground tram line bumped into loaded tubs standing in a siding. A man who was assisting to erect a buffer in the siding was crushed between the buffer and the tubs. He was seriously injured and died a month later. Inspection and inquiry made.
145	24th April, 6-15 P.M.	Jamuria mine, Charanpur P. O., Bengal.	Equitable Coal Co., Ld.	Thann Dome, (m.), 23, <i>Trammer.</i>	Coal	Whilst a trammer was riding on a train of tubs in an underground haulage road the tubs were derailed. He was run over by the rear tub. He died from tetanus eleven days later. Inspection and inquiry made.
146	25th April, about 6-20 P.M.	Loyabad mine, Bansfora P. O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Kali Rai, (m.), 24, <i>Trammer.</i>	Coal	Whilst detaching a haulage rope from a train of loaded tubs deceased fell down and was run over. He died from his injuries a few hours later. Inspection and inquiry made.
147	8th May, 5 A.M.	Bejlih mine, Sunderchak P. O., Bengal.	Equitable Coal Co., Ld.	Habu Bauri, (m.), 27, <i>Trammer.</i>	Coal	Whilst a train of six full tubs was being lowered on a haulage rope from the top of a haulage road to a shaft level, a trammer who was sleeping on the track was run over and fatally injured. Inspection and inquiry made.
148	16th May, 1-30 A.M.	Amlabad mine, Jalgora P. O., Bihar and Orissa.	Eastern Coal Co., Ld.	Chetu Gowala, (m.), 18, <i>Trolleyman.</i>	Coal	Deceased was riding on a train of tubs without permission and, in attempting to dismount, was run over and fatally injured. Inspection and inquiry made.
149	5th June, 7 P.M.	Ramnagar Mine, Kulti P. O., Bengal.	Bengal Iron Co., Ld.	Jugal Prasad Lall, (m.), 38, <i>Sirdar.</i>	Coal	Whilst a train of 20 loaded tubs was being hauled up a slope of 1 in 7 a coupling chain broke and 18 of the tubs ran wild. The two tubs which remained attached to the rope became derailed and struck a sirdar who was walking along the haulage road. He succumbed to his injuries seventeen hours later. Inspection and inquiry made.

150	12th June, 8-10 A.M.	Namdang mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ld.	Karna Bahadur Chetri, (m.), 28, <i>Coal-fitter.</i>	Coal	In spite of being warned three miners travelled along a haulage road while a train of loaded tubs was being hauled out. One of them was run over and killed instantly. Inspection and inquiry made.
151	13th June, 5-20 A.M.	Argada mine, Sirka P. O., Bihar and Orissa.	Bengal Nagpur Railway Co., Ld.	Namdihary Dasadh, (m.), 45, <i>Trammer.</i>	Coal	Two trammers were pushing a loaded tub on a tramline in a quarry. At a crossing the tub was struck by a train of empty tubs which was running uncontrolled. One of the men was killed instantly by falling a distance of 12 feet to a lower bench of the quarry. Inspection and inquiry made.
152	19th June, 12 noon.	Burra-Golai mine, Margharita P. O., Assam.	Assam Railways and Trading Co., Ld.	Ramdihoni Passi, (m.), 35, <i>Timberman</i>	Coal	A train of empty tubs ran off the rails at a place on a haulage road where a party of men had been erecting timber. One of the men was struck by the tubs and fatally injured. The sirdar in charge of the party had repeatedly warned the man to go into a manhole, but he had disregarded the warning. Inspection and inquiry made.
153	27th June, 5-30 A.M.	Giridih P. O., Bihar and Orissa.	East Indian Rail- way.	Thutha Chamar, (m.), 45, <i>Coal-cutter.</i>	Coal	Whilst a miner was moving an empty tub on a level haulage road another tub was caught by a socket on the haulage rope and moved forward. The two tubs collided and deceased was knocked down and seriously injured. He died nine days later. Inspection and inquiry made.
154	2nd July, 9-40 A.M.	Garbbam mine, Chipurupalle P. O., Madras.	Vizianagram Min- ing Co., Ld.	Thaddi Sannayasi, (m.), 45, <i>Labourer.</i>	Coal	Whilst three empty tubs were being lowered down a surface haulage incline dipping at 1 in 3 the front tub became uncoupled and ran uncontrolled for a distance of about 1,000 feet. A workman who was repairing the track at the foot of the incline was struck by the runaway tub and sustained injuries from which he died two days afterwards. Inspection and inquiry made.
155	10th July, 8 P.M.	New Kendah mine, Toposi P. O., Bengal.	New Kendah Coal Co., Ld.	Phulmoni Korin, (f.), 19, <i>Coal-carrier.</i>	Coal	Whilst loaded tubs were being marshalled at an inbye siding a full tub with one wheel spragged ran away down a road dipping at 1 in 15 and struck an empty tub which a coal-carrier was tramping along an outbye siding. She was struck by the tub and received injuries from which she died thirteen hours later. Had a stop-block been provided on the loaded tub line of the inbye siding or a check catch on the empty tub line of the outbye siding the accident would have been avoided. Inspection and inquiry made.
156	13th July, 12 noon.	Argada mine, Bamgarh P. O., Bihar and Orissa.	Bengal Nagpur Railway Co., Ld.	Radha Syam Shao, (m.), 30, <i>Trammer.</i>	Coal	Whilst a trammer was placing sprags in a tub which was being re-railed the body of the tub swung over and striking him on the back injured him so severely that he died five days later. Inspection and inquiry made.

**APPENDIX II—contd.**

**Fatal Accidents during the year 1929—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.
<b>HAULAGE—contd.</b>						
157	13th September, 6 A. M.	Jogta mine, Sijua P. O., Bihar and Oriss.	Agabeg Bros.	Badia Chamar, (m.), 23, Trolleyman.	Coal	Whilst a train of 5 loaded tubs was being raised from an underground level a steam joint at the haulage engine blew out. The engineman lost control of the engine and the tubs ran back about 20 feet. Deceased was fatally injured by coal thrown from the tubs when they were derailed by the drag. Inspection and inquiry made.
158	18th September, 9 P. M.	Newton Chikli mine, Parasia P. O., Central Provinces.	Newton Chikli Collieries, Ltd.	Sambati Telin, (f.), 25, Coal-carrier.	Coal	Whilst a coal carrier was loading a tub on a tramline dipping at 1 in 16 another tub which was standing at a distance of 15 feet gravitated towards her. She was struck and fatally injured by the moving tub. Inspection and inquiry made.
159	1st October, 9-30 A. M.	Bara-Golai mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ltd.	Methura Kurmi, (m.), 40, Tramman.	Coal	Whilst a train of four empty tubs was being hauled out of a siding by a pony, the last tub of the train became derailed. A trammer who had been helping to couple the tubs was crushed between the derailed tub and a loaded tub which was standing on an adjacent line. He was fatally injured. Inspection and inquiry made.
160	2nd October, 9-15 P. M.	Datia mine, Junnoordeo P. O., Central Provinces.	Amalgamated Coal- fields, Ltd.	Jirauwa Kolam, (f.), 21, Coal-carrier.	Coal	Whilst a train of six empty tubs was being lowered down a haulage incline the haulage rope broke and the tubs "ran wild". A coal carrier who was walking up the incline was struck by one of the tubs and fatally injured. Deceased should not have been walking on the haulage incline, but should have used the travelling road provided. Inspection and inquiry made.
161	30th October, 8 P. M.	West Jambad mine, Chora P. O., Bengal.	West Jambad Colli- ery, Ltd.	Baru Bauri, (m.), 37, Tramman.	Coal	A trammer was run over and fatally injured by a loaded tub which was gravitating along a shaft level having a slight gradient in favour of the load. From the position in which he was found he appears to have been sleeping or lying on the track. Inspection and inquiry made.

162	14th December, 8-15 P. M.	Girimint mine, Charanpur P. O., Bengal.	Girimint Coal Co., Ld.	Kalidas Bhattacharjee, (m), 26, Overman.	Coal	An empty tub was being pushed along a shaft level, 9 feet wide, and, to allow it to pass, a sirdar stepped on to the loaded tub track. He was crushed between a stationary tub and another tub which was slowly gravitating along the road. Pneumonia supervened and he died eight days afterwards. If between the tracks there had been sufficient space for a man to pass the accident would have been avoided. Inspection and inquiry made.
163	10th December, 3-30 P. M.	Deoli mine, Dishergarh P. O., Bihar and Orissa.	Deoli Coal Co., Ld.	Bilas Bauri, (m), 30, Tramner.	Coal	While attempting to replace a moving haulage rope which had slipped off a pulley a trammer sustained slight cuts on the fingers. He refused proper medical attention and tetanus supervening died ten days later. Inspection and inquiry made.
164	21st December, 5 P.M.	Ningah mine, Kalipahari P. O., Bengal.	Lodna Colliery Co. (1920), Ld.	Nunoo Meah, (m), 22, Loader.	Coal	Three miners were pushing an empty tub up a gradient of 1 in 20 when the tub bumped into some stationary tubs which were held in position by coal slack thrown on the rails. Two of the stationary tubs and the tub which the miners had been pushing got out of control and ran down the slope. One of three miners who were pushing another tub was struck and fatally injured. Had the proper sprags provided been used to secure the stationary tubs the accident would not have occurred. Inspection and inquiry made.

#### UNDERGROUND MACHINERY—(3 deaths).

165	1st June, 9-15 A.M.	Ballarpur mine, Ballarpur P. O., Central Provinces.	Sir K. C. Daga & Sir M. B. Dada- bhoy.	Tukia Guuro, (m), 23, Engineman	Coal	An engineman was found lying dead under the ing ding rope pulley of an endless haulage engine. It was presumed that he had been examining this part of the engine when his hand was caught by the rope and his body was dragged under the pulley. Inspection and inquiry made.
166	23rd July, 5 P.M.	Bhatdeo mine, Mohuda P. O., Bihar and Orissa	Bengal B'atdeo Coal Co., Ld.	Kalu Meah, (m), 23, Machineman.	Coal	Whilst holding the stay prop of a chain coal-cutting machine deceased fell upon the jib and sustained serious injuries to which he succumbed four hours later. Inspection and inquiry made.
167	31st August, 12 Mid-night.	Parbelia mine, Dishergarh P. O., Bihar and Orissa.	Bengal Coal Co., Ld.	Suki Korani, (f), 45, Coal-carrier.	Coal	Unnoticed by the machine crew a coal-carrier, for some reason unknown, entered a gallery where a coal-cutter was at work. She fell on the moving chain and was fatally injured. Inspection and inquiry made.

#### SUNDRIES UNDERGROUND—(18 deaths).

168	5th January, 10 A.M.	Pah Channg mine, Palaw P. O., Burma.	J. I. Milne	Bharata Rahak, (m), 25, Miner.	Tin	Whilst a miner was making a drainage sump in an excavation, 6 feet deep and 4 feet wide, formed by the extraction of a tin lode two miners who were working 6 feet away from him caused a mass of ground weighing about 3 cwt. to fall from the side. Hearing the ground falling he became afraid and jumping forward he slipped and fell striking his head on the point of the pick which he was using. He was killed instantly. Inspection and inquiry made.
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APPENDIX II—contd.

Fatal Accidents during the year 1929—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.
<b>SUNDRIES UNDERGROUND—contd.</b>						
169	29th January, 9-A.M.	Hsaikhao mine, Namtu P. O., Burma.	Burma Corporation Ld.	Li Kwe Sai, (m.), 18, Quarryman.	Limestone	Two quarrymen were standing on a bench, 4 feet wide and 40 feet above the floor of a quarry, barring a mass of limestone off the face. The mass gave way unexpectedly and, overbalancing, they fell down the face and were severely injured. One of them died five days later. Inspection and inquiry made.
170	4th February, 10 P.M.	Bawdin mine, Namtu P. O., Burma.	Burma Corporation, Ld.	Kalu Chand, (m.), 27, Miner.	Silver-lead-zinc.	Whilst a miner was leaving his stope and entering a ladderway his light went out. In attempting to climb up the ladderway in darkness to a level 30 feet above he fell from a ladder to a platform 15 feet below, and sustained injuries from which he died twenty-six hours later. Inspection and inquiry made.
171	26th February, 3 P.M.	Naung tha-khaw mine, Namtu P. O., Burma.	Burma Corporation, Ld.	Chi Fa Yong, (m.), 22, Labourer.	Iron ore	Whilst a labourer was carrying iron ore to a screen up an inclined ramp 18 feet long and 7 feet high, one of the posts supporting the ramp broke. He jumped to the ground from a height of 5 feet, but was caught and severely injured by the falling ramp. A month later he died. Inspection and inquiry made.
172	24th March, 7-30 A.M.	Bararee mine, Jealgora P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Proshadi Berhai, (m.), 20 ; Golap Berlai, (m.), 30 ; Berhan Berhai, (m.), 40 ; Timbermen.	Coal	In a depillaring section of a seam 28 feet thick, which had been isolated by stoppings in some of which there were "passage holes" an area of roof, measuring 250 feet x 150 feet, collapsed. Some two and a half hours before the collapse all workers had been withdrawn, but some of them were in the vicinity of one of the "passage holes" and in the direct line of the air-blast produced. Of these two were killed on the spot, and a third sustained injuries to which he succumbed two days later. Four other persons sustained serious injuries. Had they remained behind the stoppings and out of the direct line of the air-blast the accident would have been avoided. Inspection and inquiry made.

173	4th May, 12 noon.	Pya mine, Pya, P. O., Burma.	Ibrahim, Con- tractor.	Mg. Pho Yin, (m.), 40, Quarryman.	Stone	Whilst a quarryman was using a steel bar to remove stone from the face of a stone quarry he fell from a height of 30 feet to the floor of the quarry. He sustained injuries from which he died three and a half hours later. He was not secured to the safety rope which was provided. Inspection and inquiry made.
174	14th May, 5 P.M.	South Bulliari mine, Kusunda P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Tohal Kahar, (m.), 35, Coal-cutter.	Coal	Whilst trying to avoid an empty tub that was being trammed, a miner fell into a drain adjoining the tram line and sustained serious injuries. He contracted pneumonia and died three weeks later. Inspection and inquiry made.
175	16th May, 10-30 A.M.	Lodna mine, Jharla P. O., Bihar and Orissa.	Lodna Colliery Co. (1920), Ld.	Meghan Mahato, (m.), 46, Propping Mistry.	Coal	Deceased was assisting to set a prop near the edge of a goaf when a small piece of stone rolled down from the goaf and cut his leg. He died of tetanus two days later. Inspection and inquiry made.
176	27th May 9-30 A.M.	Gua mine Gua P. O., Bihar and Orissa.	Indian Iron and Steel Co., Ld	Nela Bilaspuri, (m.), 24, Miner.	Iron ore	A miner at work on the upper edge of quarry over-balanced and rolled down a slope of 40 degrees for a distance of 15 feet. In falling he struck his head against a boulder and sustained fatal injuries. Inspection and inquiry made.
177	13th July, 11 A.M.	Gua mine, Gua P. O., Bihar and Orissa.	Indian Iron & Steel Co., Ld.	Mukta Kni, (f.), 18, Load	Iron Ore	Whilst deceased was at work at the foot of a slope in a quarry, a large boulder, rolled down from an excavation some 20 feet above. She was struck by the boulder and sustained injuries which caused death twenty one days later. Inspection and inquiry made.
178	27th July, 1 A.M.	Bararee mine, Jesigora P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Dashi Dosadhin, (f.), 35, Coal-carrier.	Coal	In the process of setting a prop 25 feet in length the prop struck another prop and knocked it out. The falling prop struck deceased and fatally injured her. Inspection and inquiry made.
179	28th August, 4-30 P.M.	Serampur mine, Giridih P. O., Bihar and Orissa.	East Indian Rail- way.	Goudia Turin, (f.), 22, Coal-carrier.	Coal	Whilst deceased was working in a gallery 18 feet high a prop, set as a support for the roof, fell and struck her. She was fatally injured. Inspection and inquiry made.
180	4th November, 11 A.M.	Bhangia Guroote mine, Japla P. O., Bihar and Orissa,	Sone Valley Port- land Cement Co., Ld.	Joykaram Rajwar, (m.), 41, Miner.	Limestone	Whilst deceased was barring down loose stone from the edge of a bench in a quarry his bar slipped and he fell a distance of 30 feet sustaining a fracture of the skull to which he succumbed within an hour. Inspection and inquiry made.
181	1st December, 6-30 A.M.	Ywa-Dan-Swe (Yinny- oin) mine, Yinnyoin P. O., Burma.	Ibrahim, Con- tractor.	Bhimo Ooryis, (m.), 26, Miner.	Stone	Whilst levering loose rock from the face of a quarry deceased overbalanced and fell to the bottom of the quarry—a distance of 30 feet. He received injuries from which he died six hours later. Inspection and inquiry made.

**APPENDIX II—contd.**

**Fatal Accidents during the year 1929—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.
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**SUNDRIES UNDERGROUND—contd.**

182	7th December, 8 A.M.	Maled Mine, Maled P. O., Bombay.	Mugasoth & Sons.	Abdul Haq, (m.), 35, <i>Stone-breaker.</i>	Murrum	A stone-breaker approached the foot of a quarry face where the barring down of material was in progress. He was struck by a piece of stone and fatally injured. Inspection and inquiry made.
183	22nd December, 4 P.M.	Bharatkup mine, Bharatkup P. O., United Provinces.	Government of the United Provinces (Public Works Department).	Bhurwa Chamar, (m.), 17, <i>Ballast breaker.</i>	Stone	A ballast breaker was struck and fatally injured by a boulder which rolled down a hill-side after having been dislodged by his fellow workmen. Inspection and inquiry made.

**BY SURFACE MACHINERY—(3 deaths).**

184	25th April, 8 A.M.	South East Paraboni mine, Charanpur P. O., Bengal.	Maharaja of Cossim- bazar.	Sahndeb Karimakar, (m.), 18, <i>Assistant Turner.</i>	Coal	The clothing of deceased became entangled by a smooth shaft 2½ inches diameter revolving at a speed of 200 revolutions per minute. He was drawn round the shaft and killed instantly. Had he been wearing tight-fitting clothing or had the shafting been guarded this accident would not have occurred. Inspection and inquiry made.
185	18th July, 10 P.M.	Gua mine, Gua P. O., Bihar and Orissa.	Indian Iron and Steel Co., Ltd.	Durga Singh, (m.), 40, <i>Labourer.</i>	Iron Ore	Whilst a workman was engaged in replacing a pulley on an aerial ropeway a girder which was being used as a temporary support suddenly turned over and he was caught between it and the trestle. He sustained fracture of the spine and died ten months later. Inspection and inquiry made.
186	20th November, 3-45 A.M.	Kathe (Mogok) mine, Kyatpyin P. O., Burma.	Burma Ruby Mines Ltd.	Asmond Rai, (m.), 40, <i>Mine durwan.</i>	Rubbies	Seeking warmth on a cold night deceased entered a pump room. His blanket became entangled in the coupling of a motor, and he was drawn round the shaft and killed. Inspection and inquiry made.



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

187	29th January, 5-40 P.M.	Lenghor mine, Balaghat P. O., Central Provinces.	Indian Manganese Co., Ld.	Rupatia. (f), 40, Labourer.	Manga- nese Ore	A woman was engaged in loading waste into a tub when a tub which was gravitating down an adjacent line got out of control and ran over her. Had first-aid been properly administered her life might have been saved. Inspection and inquiry made.
188	18th March, 5 P.M.	Gua mine, Gua P. O., Bihar and Orissa.	Indian Iron and Steel Co., Ld.	Jondok Ho. (m), 25, Loader.	Iron Ore	Whilst running alongside a train of empty tubs which was being loose shunted by a locomotive, deceased slipped and was run over, sustaining injuries which caused death within a week. Inspection and inquiry made.
189	6th April, 1-30 P.M.	Parbelia mine, Dishergarh P. O., Bihar and Orissa.	Bengal Coal Co., Ld.	Isra Bhuiya, (m), 22, Trolleyman.	Coal	Whilst crossing the tram line on a tippler gantry near the top of a shaft a trolleyman was crushed between two tubs and fatally injured. Inspection and inquiry made.
190	25th April, 10-30 A.M.	Bhangia Gurosole mine, Japla P. O., Bihar and Orissa.	Sone Valley Port- land Cement Co., Ld.	Dukhan Dasadh, (m), 40, Loader.	Limestone	Deceased was pushing a loaded tub when it derailed. The body of the tub was thrown off its seat and fell on to the frame work. His head was crushed between the body and the frame work. He died five days later. Inspection and inquiry made.
191	18th May, 12-30 P.M.	Haripur mine, Chora P. O., Bengal.	Chandanmull Indrakumar.	Davi Bauri, (m), 45, Tramner.	Coal	The embankment for a tram line was under construction, and a side tipping tub loaded with ashes had been pushed to the end of the tram line. The tramner attempted to sprag the tub, but failing to do so, was carried with the tub over the end of the embankment. He was fatally injured. Had a stop block been provided at the end of the embankment the accident would not have occurred. Inspection and inquiry made.
192	24th May, 11-35 A.M.	Lodna mine, Jharla P. O., Bihar and Orissa	Lodna Colliery Co. (1920), Ld.	Ram Krishna Gowala, (m), 14, Shale picker.	Coal	Whilst deceased was helping to handshunt a wagon on a railway siding, his foot was run over. Twelve days later he died. Inspection and inquiry made.
193	30th May, 5-15 A.M.	Toposi mine, Topoi P. O., Bengal.	Bangra Coal Co., Ld.	Tocrnco Beldar, (m), 26, Wagon loader.	Coal	A loader was passing through a narrow space between two stationary wagons and the buffer of a loading siding. A third empty wagon which was being moved by hand bumped into the stationary wagons causing them to move towards the buffer. The loader was crushed between the wagons and the buffer, and killed instantly. Inspection and inquiry made.
194	19th July, 11-30 A.M.	Burra-Golai mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ld.	Johan (Christian) (m), 24, Tramner.	Coal	A tramner slipped on the edge of a loading wharf, and fell on the edge of a tub 3 feet below. He was internally injured and died almost immediately. Inspection and inquiry made.

APPENDIX II—*contd.*

Fatal Accidents during the year 1929—*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.
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ON SURFACE RAILWAYS AND TRAMWAYS BELONGING TO THE MINE—*contd.*

195	28th September, 4.30 A.M.	Borjan and Kongon mine, Kongnyu P. O., Assam.	Nazira Coal Co., Ld.	Arsad Ali, (m.), 30, Trammer.	Coal	A trammer was riding on the buffer of a loaded tub which was gravitating on a surface tram line dipping at 1 in 12. While crossing a bridge over a small stream the tub became derailed and he was thrown off. He fell to the bed of the stream 28-feet below—and was killed instantly. Inspection and inquiry made.
196	17th October, 5 P.M.	Chickla mine, Tumsar Dongri P. O., Central Provinces.	Central Provinces Manganese Ore Co., Ld.	Mallo, (f.), 35, Miner.	Manga- nese Ore.	A woman was engaged in stacking ore near a surface tram line. As she was walking on the line a tub struck her, inflicting injuries which subsequently proved fatal. It appears that the woman was deaf and thus failed to avail herself of the warning given. Inspection and inquiry made.
197	19th October, 3 P.M.	Bokaro mine, Bokaro P. O., Bihar and Orissa.	East Indian and Bengal Nagpur Railways.	Topi Kurmau, (f.), 18, Labourer.	Coal	A train of empty tubs gravitating on a surface tram line struck a woman who was crossing the tram line. She sustained injuries which proved fatal. Inspection and inquiry made.
198	28th October, 1 P.M.	Basadera mine, Ghatsila P. O., Bihar and Orissa.	East India Manga- nese Co., Ld.	Tepo Sonthal, (m.), 35, Stone cutting sirdar.	Manga- nese.	Seven persons were illegally riding on a trolley down a steep haulage incline when the trolley got out of control and collided with an empty truck. Deceased was fatally injured and two of the others were slightly injured. Inspection and inquiry made.

BY ELECTRICITY—(2 deaths).

199	21st September, about 7-30 A.M.	Kendwadih mine, Kusanda P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Khairuddin, (m.), 49, Labourer.	Coal	Deceased climbed up a post carrying line conductors at 2,200 volts a.c. and was electrocuted. Inspection and inquiry made.
200	16th November, between 8 and 9 P.M.	Kuardi mine, Kalipahari P. O., Bengal.	Kuardi Coal Co., Ld.	Moti Bauri, (m.), 82, Coal-cutter.	Coal	An extensive fall of roof damaged a rubber insulated cable carrying current at 250 volts d.c., and caused an earthwire to come in contact with the live core. The wire broke and a miner, who was passing nearby, became entangled in it and was electrocuted. Inspection and inquiry made.

MISCELLANEOUS ON SURFACE—(12 deaths).

201	18th February, 2-30 P.M.	Heinze Basin mine, Kanbank P. O., Burma.	Northern Tavoy Tin Dredging Cor- poration Ltd.	Kaiou, (m.), 30, Stoker on producer gas plant.	Tin Ore	During the trials of a new dredge one of the cylinders of a 4-cylinder 400 H. P. gas engine was misfiring and some of the unburnt gas escaped through a leaky expansion joint in the exhaust pipe into a compartment in the pontoon. Two men who were close to a manhole in the deck were severely burned when the accumulation of unburnt gas in the compartment was ignited by a back-fire in the exhaust pipe. One of them died a few hours afterwards. Inspection and inquiry made.
202	11th April, 10-30 A.M.	Kandivli mine, Kandivli P. O., Bombay.	Mugasoth & Sons	Tippamma, (f.), 20, Labourer.	Murrum	A women carrying a loaded basket stumbled, and the contents of the basket falling on her killed her. Inspection and inquiry made.
203	12th June, 6-30 P.M.	Gua mine, Gua P. O., Bihar and Orissa.	Indian Iron & Steel Co. Ltd.	Mongal Kol, (m.), 25, Labourer.	Iron Ore	Deceased went up a ropeway trestle to ease a jammed pulley. The crowbar which he was using was struck by a loaded carrier, and this caused the supporting beam to break. He was thrown to the ground, 28 feet below, and killed instantly. Inspection and inquiry made.
204	11th July, 8 A.M.	Bhankhap mine, Rajauli P. O., Bihar and Orissa.	Ganpat Roy Keder- nath.	Barui Ghatwarin, (f.), 12.	Mica	Whilst collecting mica from a waste dump on the hill side deceased was buried and killed by a fall of debris. Inspection and inquiry made.
205	11th July, 5 P.M.	Parbelia mine, Disbergarh P. O., Bihar and Orissa.	Bengal Coal Co., Ltd.	Somi Mejhian, (f.), 16, Wagon loader.	Coal	Whilst a wagon loader was getting down from a wharf 4 feet high on to a railway siding, she slipped and her head struck the buffer of a stationary wagon. She was severely injured and died ten minutes later. Inspection and inquiry made.
206	27th July, 12 A.M.	Taungpila mine, Tavoy P. O., Burma.	Consolidated Tin Mines of Burma Ltd.	Maung Po Sway, (m.), 45, Labourer.	Tin and wolfram.	Deceased was struck and killed by a tree which he had felled. Inspection and inquiry made.
207	8th August, 2 P.M.	Taungpila mine, Tavoy P. O., Burma.	Consolidated Tin Mines of Burma Ltd.	Lee Yin, (m.), 24, Labourer.	Do.	After a log had been sawn into two pieces one of the pieces rolled down into an open excavation and struck two miners, one of whom died four days later. Inspection and inquiry made.
208	11th Septem- ber, 5 P.M.	Jamadoba mine, Jalgora P. O., Bihar and Orissa.	Tata Iron and Steel Co. Ltd.	Sundri Mejhian, (f.), 15, Labourer.	Coal.	Deceased was carrying a bag filled with earth on her head when she slipped and fell backwards. She sustained injuries to which she succumbed on the following day. Inspection and inquiry made.
209	26th Septem- ber, 12-30 P.M.	Heinze Basin mine, Kanbank P. O., Burma.	Northern Tavoy Tin Dredging Ltd.	Gyoba Ali, (m.), 22, Fig Greaser.	Tin.	Whilst greasing the rollers on the bucket ladder of a dredge deceased overbalanced and fell on to the deck below, breaking his leg. He refused proper medical treatment and, gangrene setting in, died thirteen days later. Inspection and inquiry made.

**APPENDIX II—contd.**

**Fatal Accidents during the year 1929—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.
<b>MISCELLANEOUS ON SURFACE—(12 deaths)—contd.</b>						
210	26th October, 11-30 A.M.	Bhutgoria mine, Bhaga P. O., Bihar and Orissa.	Aldih Coal Co., Ltd.	Kertab Singh, (m.), 35, Labourer.	Coal.	Deceased was engaged in the work of dismantling a steel headgear, when he overbalanced and fell to the ground 40 feet below. He was struck by a girder which fell at the same time, and sustained injuries which later proved fatal. Inspection and inquiry made.
211	4th December, 3 P.M.	Gua mine, Gua P. O., Bihar and Orissa.	Indian Iron and Steel Co., Ltd.	Jhadoo Meah, (m.), 30, Labourer.	Iron Ore.	With the object of removing a pulley-block deceased climbed to the top of a derrick pole from which one of the four guy ropes had been removed. The pole overbalanced and he fell with it to the ground, 25 feet below. He sustained a fracture of the skull and died three hours later. Inspection and inquiry made.
212	12th December, 4-30 P.M.	Baguiggi mine, Jharia P. O., Bihar and Orissa.	Villiers Ltd.	Badi Bauri, (m.), 25, Labourer.	Coal.	Whilst engaged in dismantling a building a labourer brought about the collapse of a wall. He sustained spinal injuries which caused death soon after. Inspection and inquiry made.

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APPENDIX II—contd.

Fatal Accidents during the year 1929—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.
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FIGURES NOT INCLUDED IN THE STATISTICS—(39 deaths).

1	5th January, 5 A.M.	Kargali mine, Bokaro P. O., Bihar and Orissa.	Great Indian Penin- sula Railway.	Sakhbari, (f.), 35, Labourer.	Coal	Not a mining accident.	Deceased was sitting dozing by a fire when her clothing was blown into the flames and caught fire. She was severely burnt and died two days later. Inspection and inquiry made.
2	1st February, 12-30 P.M.	Fularibad mine, Jharia P. O., Bihar and Orissa.	Fularibad Coal Co. Ld. (in liquida- tion).	Satuli Mesh, (m.), 65, Hasina Musam- met, (f.), 60, Datulan, (f.), 20, Sakhina, (f.), 14.	Coal	Not em- ployed.	Owing to an unexpected collapse of old underground work-ings which had been closed for about two years, a surface subsidence took place, causing three blocks of dwellings to be wrecked. A number of persons were in the dwellings at the time, and of these four were killed. Inspection and inquiry made.
3	8th February, 11-15 A.M.	Khewra mine, Khewra P. O., Punjab.	Government of India.	..	Rock salt	An accident under the Explo- sives Act.	An explosion took place in a gunpowder factory. Nine persons were killed or fatally injured.
4	23rd Feb- ruary, 11-30 A.M.	Naung-tha-khaw mine, Namtu P. O., Burma.	Burma Corporation, Ld.	Ilia Khan, (m.), 55, Cart driver.	Iron ore	Not a mining accident.	Whilst deceased was carting iron ore from a mine to a load- ing siding 7 miles distant he went to sleep and fell off the cart and was run over by one of the wheels. He was severely injured and died twenty days afterwards. Inspection and inquiry made.
5	7th March, about 11 A.M.	Hermyingyi mine, Hermyingyi P. O., Burma.	Consolidated Tin Mines of Burma Ld.	Mg. Po. Hla, (m.), 40, Field culti- vator.	Tin and wolfram.	Not em- ployed.	A field cultivator who went into an old excavation, 9 feet deep, to steal tin ore was fatally injured by a mass of earth, 7' x 6' x 3', which fell from a place where he had been under-cutting. He died five days afterwards. Inspection and inquiry made.

6	14th March, 7-30 P.M.	Khas Jharis mine, Jharis P. O., Bihar and Orissa.	Khora Ramji	Bhatu Mochi, (m.), 55. Cobbler.	Coal	Not employed.	Whilst in an intoxicated condition deceased climbed over a brick wall and fell into an incline cutting, 60 feet deep. He sustained injuries to which he succumbed half an hour later. Inspection and inquiry made.
7	7th April, 7 P.M.	Darulah mine, Pandalvoswar P. O., Bengal.	New Kendah Coal Co., Ltd	Budini Kolin, (f.), 22 Loader.	Coal	Not a mining accident.	A woman, said to have been an epileptic, was found drowned in a well. Inspection and inquiry made.
8	23rd May, 8-30 A.M.	Bhargora mine, Jharis P. O., Bihar and Orissa.	Balgora Coal Co., Ltd.	Ramborani, (f.), 13.	Coal	Not employed.	Deceased passed through a fence and was undercutting some clay in a subsided area when a mass of side, weighing about 1 cwt., fell on her. She sustained injuries to which she succumbed half an hour later. Inspection and inquiry made.
9	28th May, 12 noon	North Sindih mine, Katraagarh P.O., Bihar and Orissa.	Bhawau Jiwa.	Apia Telin, (f.), 16.	Coal	Not employed.	Deceased was found drowned in an old quarry containing 30 feet of water. Inspection and inquiry made.
10	31st May, 6 P. M.	Karharbari mine, Giridih P. O., Bihar and Orissa.	East Indian Rail- way.	Bhawani Dossadh, (m.), 45. Coal-cutter.	Coal	Not a mining accident.	Whilst bathing in a tank which was regularly used for bathing purposes deceased was drowned. Inspection and inquiry made.
11	1st June, 11 A. M.	Karharbari mine, Giridih P. O., Bihar and Orissa.	East Indian Rail- way.	Daro Chamar, (m.), 25, Coal-cutter.	Coal	Not a mining accident.	Deceased was drowned whilst bathing in a boiler feed water supply tank. The tank was surrounded by a wall, 3 feet 6 inches high. Inspection and inquiry made.
12	1st June, 4 P. M.	Upper Ghorawari mine, Junordeo P. O., Central Provin- ces.	Lala Budhoo Lall	Bhoori, (f.) 7.	Coal	Not employed.	Deceased was found drowned in a boiler feed tank. This accident might have been avoided if debris had not been allowed to accumulate at one corner of the fencing wall. Inspection and inquiry made.
13	2nd June	Jamadoba mine Jalgora P. O., Bihar and Orissa.	Tata Iron and Steel Co., Ltd.	Daulat Meah, (m.), 32 Coal-cutter.	Coal	Not a mining accident.	Whilst bathing in a large tank which is regularly used for bathing purposes, deceased was drowned. Inspection and inquiry made.
14	30th June, 11 A. M.	Serampur mine, Giridih P. O., Bihar and Orissa.	East Indian Rail- way.	Adri Dossadin, (f.), 15, Coal-carrier.	Coal	Not a mining accident.	Deceased was found drowned in a well. Inspection and inquiry made.

**APPENDIX II—contd.**

**Fatal Accidents during the year 1929—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.
15	5th July, 12 noon.	Terria (Square 21 h) mine, Koðarma P. O., Bihar and Orissa.	Chota Nagpur Mica Syndicate.	Karim Meah, (m.), 30.	Mica	Not employed.	Whilst sheltering from a rain storm in an abandoned quarry, 10' × 10' × 10', deceased was struck and fatally injured by stones which fell from the edge of the excavation. Inspection and inquiry made.
16	10th July, 7-30 A.M.	Shwe To Chaung mine, Palaw P.O., Burma.	Leslie R. Beale.	Hoosain, (m.), 18, <i>Labourer.</i>	Tin	An accident under the Indian Explosives Act.	Although explosives were not used at the mine at which the deceased was employed he had obtained from an unknown source some dynamite and detonators and was drying them over a fire in a dwelling house. An explosion occurred and he was fatally injured. It was presumed that he had intended to use the explosives for catching fish. Inspection and inquiry made.
17	26th July, 11 A.M.	Toposi mine, Toposi P. O., Bengal.	Bansra Coal Co., Ld.	Sita Badi, (m.), 30, <i>Chaprassie.</i>	Coal	Not a mining accident.	Whilst bathing in a surface tank deceased, who was unable to swim, got into difficulties and was drowned. Inspection and inquiry made.
18	29th July, 9 A.M.	Joyrampur mine, Jharia P.O., Bihar and Orissa.	Joyrampur Coal Co.	Etowari Bhuiya, (m.), 7.	Coal	Not employed.	Deceased released the catch on the door of a stationary railway wagon. The door fell and killed him instantly. Inspection and inquiry made.
10	29th July, 1-30 P.M.	Tikuri mine, Katni Cement, Factory P.O., Central Provinces.	Katni Cement and Industrial Co., Ld.	Daulatia Teli, (m.), 16.	Limestone.	Not employed.	A labourer, who had not been employed for several days on account of illness, passed through the fence at the top of a quarry 125 feet deep to watch others working. He fell over the edge and was killed. Inspection and inquiry made.
20	30th July, 12-30 P.M.	Khas Jharia mine, Jharia P. O., Bihar and Orissa.	Khora Ramji	Motia Turi, (m.), 6.	Coal	Not employed.	Deceased was found drowned in a boiler feed tank, containing 7 feet of water. Inspection and inquiry made.

**FIGURES NOT INCLUDED IN THE STATISTICS—(39 deaths)—contd.**



21	12th September, about 1-30 P.M.	Baidyanathpur mine, Pandaveswar P.O., Bengal.	Samla Collieries, Ld.	Kamini Mojhan, (f), 4; Panoo Manjhi, (m), 70.	Coal	Not a mining accident.	The deceased were found drowned in a reservoir 18' x 12' and 7' deep, the sides of which were built up 2 to 2½ feet above ground level. Inspection and inquiry made.
22	30th October	Tiera mine, Jharia P. O., Bihar and Orissa.	Amarsing Gowamal Manji Gowamal.	Name unknown, (m.), 30 to 40.	Coal	Not employed.	Deceased was found drowned in an old water-logged quarry. Inspection and inquiry made.
23	7th November, 11 A.M.	Dongri-Buzruq mine, Tumsar-Dongri P. O., Central Provinces.	Central Provinces Manganese Ore Co., Ld.	Sukruba, (m.), 12.	Manganese Ore.	Not employed.	A boy who was bringing food to his father approached unobserved, a place in a quarry where rock was being barred down from an upper level. A piece of rock struck him on the ankle, inflicting an injury which caused death on the day following. Inspection and inquiry made.
24	29th November, 12 P.M.	Bagdiggi mine, Jharia P. O., Bihar and Orissa.	Villiers, Ld.	Kashi Kahar, (m.), 55, Dispensary attendant.	Coal	Not a mining accident.	Deceased took a burning brazier into his quarters and, having closed the window and door, lay down to sleep. He was found suffocated the following morning. Inspection and inquiry made.
25	19th December.	Borjan and Kongon mine, Kongnyu P. O., Assam.	Nazira Coal Co., Ld.	Manbir Kani, (m.), 35, Timber-cutter.	Coal	Not a mining accident.	While at work in a forest a timber-cutter slipped and fell down a timber slide. He was fatally injured. Inspection and inquiry made.
26	22nd December, 9 P.M.	Jambad mine, Chora P. O., Bengal.	North Adai Coal Co., Ld.	Babulal Bauri, (m.), 28, Trolleyman.	Coal	Not a mining accident.	Whilst seated near a fire in his dwelling his clothing caught fire and he was fatally burned.
27	28th December, 3-15 P.M.	Dongri-Buzruq mine, Tumsar-Dongri P. O., Central Provinces.	Central Provinces Manganese Ore Co., Ld.	Sukrana, (f), 1½.	Manganese Ore.	Not employed.	A baby who had been taken by its mother on to the workings of the quarry strayed on to a tram line and not being noticed was run over and killed by a tub which was being pushed by hand. Inspection and inquiry made.

Table

## Statement of fatal and serious accidents in and about Mines

Province.	Mineral field or District.	FATAL								
		Number of separate fatal accidents.	Number of deaths.						Total.	
			Under-ground.		Open workings.		Surface.			
			Males.	Females.	Males.	Females.	Males.	Females.		
Assam	Makum Coalfield Nazira "	7 2	8 1	... ...	... ...	... ...	1 1	... ...	9 2	
Baluchistan	Baluchistan Coalfield	...	...	...	...	...	...	...	...	
Bengal (and part of Bihar and Orissa).	Raniganj Coalfield	53	45	11	1	...	4	1	62	
Bihar and Orissa	Jharia Coalfield Bokaro " Karanpura " Giridih " Hingir Rampur Coalfield.	67 1 2 7 1	57 6 ... 7 2	18 ... ... 6 ...	... ... 2 ... ...	... ... ... ... ...	1 ... ... ... ...	5 ... ... ... ...	1 ... ... 1 ...	59 6 2 14 2
Central Provinces	Fench Valley Coalfield Chanda "	8 2	6 2	5 ...	... ...	... ...	... ...	... ...	11 2	
Punjab	Salt Range Coalfield	2	2	...	...	...	...	...	2	
	Total (Coal)	152	136	40	3	1	11	3	194	

## DIX II.

## No. 2.

regulated by the Indian Mines Act, 1929.

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.					
<b>AL</b>																
4.66	...	1.21	2.61	44	27	...	4	1	11	1	44	15.74	5.50	14.48	12.74	
2.25	...	4.33	2.96	4	3	...	...	...	1	...	4	6.76	...	4.33	5.93	
...	...	...	...	1	1	...	...	...	...	...	1	6.25	...	...	4.72	
1.61	0.67	0.32	1.19	74	52	7	...	...	18	...	77	1.69	...	1.14	1.48	
1.69	0.53	0.25	1.16	185	120	16	2	...	45	8	191	3.07	1.07	2.17	2.71	
4.94	...	...	0.57	36	4	2	12	8	9	1	36	4.94	1.61	3.66	2.20	
...	1.19	...	0.58	5	2	...	...	1	2	...	5	2.16	0.60	2.21	1.44	
1.83	...	0.46	1.46	32	26	7	...	...	1	...	34	4.64	...	0.46	3.55	
12.42	...	...	0.13	...	...	...	...	...	...	...	...	...	...	...	...	
2.91	...	...	1.98	46	31	6	...	...	9	2	46	9.79	...	6.28	8.66	
1.25	...	...	0.95	1	1	...	...	...	...	...	1	0.63	...	...	0.47	
5.14	...	...	2.69	4	3	...	...	...	1	...	4	7.71	...	3.06	5.38	
1.82	0.21	0.28	1.17	432	270	38	18	10	27	12	445	3.18	1.49	2.18	2.69	

Table

Statement of fatal and serious accidents in and about Mines

Province.	Mineral field or District.	Number of separate fatal accidents.	FATAL						
			Number of deaths.						
			Under-ground.		Open workings.		Surface.		Total.
			Males.	Females.	Males.	Females.	Males.	Females.	
<b>IRON</b>									
Bihar and Orissa . . .	Singbhum District . . .	7	..	...	2	1	4	..	7
Burma . . . . .	Shan States . . . . .	1	...	...	1	...	...	...	1
	Total (Iron Ore) . . .	8	...	...	3	1	4	...	8
<b>MANGA</b>									
Bihar and Orissa . . .	Singbhum District . . .	1	...	...	...	...	1	...	1
Bombay . . . . .	.....	...	...	...	...	...	...	...	...
Central Provinces . . .	.....	4	1	...	...	1	...	2	4
Madras . . . . .	Vizagapatam District . . .	1	...	...	1	...	...	...	1
	Total (Manganese Ore)	6	1	...	1	1	1	2	6
<b>LEAD</b>									
Burma . . . . .	Shan States . . . . .	10	20	...	...	...	...	..	20
<b>TIN AND</b>									
Burma . . . . .	Tavey and Mergui Districts.	8	...	...	4	...	4	...	8

DIX II—*contd.*No. 2—*contd.*regulated by the Indian Mines Act, 1929—*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.						
<b>ORE</b>																	
...	0.52	1.72	0.86	14	...	...	5	...	9	...	14	...	0.86	3.87	1.72		
...	4.35	...	1.52	2	..	...	...	...	2	...	2	...	...	4.66	8.03		
...	0.66	1.45	0.91	16	...	...	5	...	11	...	16	...	0.83	3.99	1.82		
<b>NESE ORE</b>																	
...	...	1.98	0.60	2	...	...	...	...	2	...	2	...	...	2.75	1.20		
...	...	...	...	22	...	...	7	4	9	2	23	...	3.66	17.16	5.98		
1.09	0.06	0.58	0.20	28	...	...	9	9	8	2	28	...	1.13	2.89	1.37		
...	0.61	...	0.66	3	...	...	3	...	1	...	4	...	2.42	3.60	2.64		
0.63	0.10	0.39	0.22	54	...	...	19	13	20	4	56	...	1.53	4.70	2.06		
<b>ORE</b>																	
3.68	...	...	3.30	91	81	...	...	...	10	...	91	15.78	...	11.79	18.02		
<b>WOLFRAM ORE</b>																	
...	0.65	5.19	0.93	11	2	...	2	...	7	...	11	1.19	0.33	9.09	1.23		



## DIX II—contd.

## No. 2—contd.

regulated by the Indian Mines Act, 1929—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.					
<b>ORE</b>															
12'66	...	...	4'54	6	3	...	...	...	2	1	6	18'99	...	10'60	13'61
12'66	...	...	4'46	6	3	...	...	...	2	1	6	18'99	...	10'60	13'39
<b>MS</b>															
...	10'36	4'98	7'61	...	...	...	...	...	...	...	...	...	...	...	...
<b>ORE</b>															
...	...	...	...	3	1	...	2	...	...	...	3	9'01	37'78	...	12'35
...	...	...	...	1	...	...	...	...	1	...	1	...	...	18'18	1'47
...	...	...	...	4	1	...	2	...	1	...	4	9'01	2'87	8'69	4'34
<b>CA</b>															
0'62	...	0'55	0'50	5	5	...	...	...	...	...	5	0'62	...	...	0'42
0'54	0'83	...	0'48	...	...	...	...	...	...	...	...	...	...	...	...
0'60	0'28	0'34	0'48	5	5	...	...	...	...	...	5	0'50	...	...	0'30
<b>LT</b>															
0'93	...	...	0'62	3	3	...	...	...	...	...	3	2'79	...	...	1'87

Table

Statement of fatal and serious accidents in and about Mines

Province.	Mineral field OF District.	FATAL							
		Number of separate fatal accidents.	Number of deaths.						Total.
			Under-ground.		Open workings.		Surface.		
			Males.	Females.	Males.	Females.	Males.	Females.	
									<b>STO</b>
Bihar and Orissa	Nanthal Parganas . . . . .	1	...	...	1	...	...	...	1
	Shahabad . . . . .	2	...	...	1	...	1	...	2
	Total . . . . .	3	...	...	2	...	1	...	3
Bombay . . . . .	Bombay Suburban . . . . .	3	...	...	3	...	...	1	4
	Total . . . . .	3	...	...	3	...	...	1	4
Burma . . . . .	Northern Shan States . . . . .	1	...	...	1	...	...	...	1
	Thaton . . . . .	4	...	...	4	...	...	...	4
	Toungoo . . . . .	1	...	...	1	...	...	...	1
	Total . . . . .	6	...	...	6	...	...	...	6
Central Provinces . . . . .	Jubbulpore . . . . .	...	...	...	...	...	...	...	...
	Total . . . . .	...	...	...	...	...	...	...	...
Punjab . . . . .	Jhelum . . . . .	...	...	...	...	...	...	...	...
	Rawalpindi . . . . .	1	...	...	1	...	...	...	1
	Total . . . . .	1	...	...	1	...	...	...	1
United Provinces	Allahabad . . . . .	...	...	...	...	...	...	...	...
	Banda . . . . .	1	...	...	1	...	...	...	1
	Total . . . . .	1	...	...	1	...	...	...	1
	Total (Stons) for 1929	14	...	...	13	...	1	1	15



DIX II—*contd.*No. 2—*contd.*regulated by the Indian Mines Act, 1929—*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.				
NE															
...	0.79	...	0.48	...	...	...	...	...	...	...	...	...	...	...	...
...	0.76	2.90	1.20	...	...	...	...	...	...	...	...	...	...	...	...
...	0.48	0.84	0.56	...	...	...	...	...	...	...	...	...	...	...	...
...	1.97	5.21	2.33	4	...	...	...	1	3	...	4	...	0.66	15.62	2.33
...	0.70	1.70	0.82	4	...	...	...	1	3	...	4	...	0.23	5.27	0.82
...	4.05	...	4.05	1	...	...	1	...	...	...	1	...	4.95	...	4.95
...	2.04	...	1.84	7	...	...	11	...	...	...	11	...	5.60	...	5.07
...	1.71	...	1.68	...	...	...	...	...	...	...	...	...	...	...	...
...	1.76	...	1.63	8	...	...	12	...	...	...	12	...	3.51	...	3.27
...	...	...	...	3	...	...	1	1	...	1	3	...	0.58	1.55	0.74
...	...	...	...	3	...	...	1	1	...	1	3	...	0.49	1.17	0.61
...	...	...	...	2	...	...	...	...	3	...	3	...	...	12.20	4.02
...	5.29	...	1.88	...	...	...	...	...	...	...	...	...	...	...	...
...	0.53	...	0.34	2	...	...	...	...	3	...	3	...	...	2.74	1.01
...	...	...	...	2	...	...	1	...	1	...	2	...	0.43	0.80	0.80
...	1.54	...	1.32	8	...	...	2	...	1	...	3	...	3.08	13.15	3.95
...	0.23	...	0.21	5	...	...	3	...	2	...	5	...	0.70	3.55	1.04
...	0.48	0.40	0.55	23	...	...	16	2	8	1	27	...	0.60	1.60	0.99

Table

## Statement of fatal and serious accidents in and about Mines

Province.	Mineral field or District.	Number of separate fatal accidents.	FATAL						
			Number of deaths.						
			Under-ground.		Open workings.		Surface.		Total.
			Males.	Females.	Males.	Females.	Males.	Females.	
			<b>MAGNE</b>						
Madras . . . . .	Salem District . . . . .	...	...	...	...	...	...	...	...
			<b>BAU</b>						
Bombay . . . . .	Kaira District . . . . .	...	...	...	...	...	...	...	...
			<b>STEATITE</b>						
United Provinces . . . . .	Hamirpur District . . . . .	...	...	...	...	...	...	...	...
	Total (Steatite) . . . . .	...	...	...	...	...	...	...	...
			<b>FIRE</b>						
Bihar and Orissa . . . . .	Palamau District . . . . .	1	...	...	...	1	...	...	1
Central Provinces . . . . .	Jubbulpore District . . . . .	...	...	...	...	...	...	...	...
	Total (Fire Clay) . . . . .	1	...	...	...	1	...	...	1
			<b>CHINA</b>						
Bihar and Orissa . . . . .	Singbhum District . . . . .	...	...	...	...	...	...	...	...
	Total (China Clay) . . . . .	...	...	...	...	...	...	...	...
			<b>CLAY</b>						
Bengal . . . . .	Burdwan District . . . . .	...	...	...	...	...	...	...	...
	Total (Clay) . . . . .	...	...	...	...	...	...	...	...
	<b>Grand Total (All minerals).</b>	<b>212</b>	<b>166</b>	<b>40</b>	<b>27</b>	<b>4</b>	<b>22</b>	<b>7</b>	<b>266</b>

DIX II—contd.

No. 2—concl'd.

regulated by the Indian Mines Act, 1929—concl'd.

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.				
<b>SITE</b>				2	...	...	...	...	1	1	2	...	...	12.74	1.39
<b>XITE</b>				1	...	...	...	...	1	...	1	...	...	71.43	5.13
<b>TITE</b>				1	1	...	...	...	...	...	1	3.32	...	...	1.99
				1	1	...	...	...	...	...	1	2.51	...	..	1.01
<b>CLAY</b>															
...	4.22	...	2.52	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	1	...	...	1	...	...	...	1	...	2.59	...	2.13
...	1.29	...	0.96	1	...	...	1	...	...	...	1	...	1.29	...	0.96
<b>CLAY</b>															
...	..	...	...	1	...	...	...	...	...	2	2	...	...	7.78	2.71
...	...	..	...	1	...	...	...	...	...	2	2	...	...	7.52	2.65
<b>AY</b>															
...	...	...	...	1	...	...	1	...	...	...	1	...	14.08	..	12.66
..	...	...	...	1	...	...	1	...	...	...	1	...	7.67	...	7.80
1.76	0.37	0.42	0.99	651	366	38	64	25	158	21	672	3.45	1.07	2.56	2.49

APPENDIX II—*conold.*

Table No. 3.

Statement of fatal accident in Mines regulated by the Indian Mines Act, during the year 1929, 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.	Irruptions of water.	Haulage.	Miscellaneous underground.	Surface.	By electricity.	Total deaths.	Underground.	Open workings.	On surface.	Underground, Open workings and Surface.
Coal . . . . .	152	8	81	34	11	2	6	..	28	10	12	2	194	1.82	0.21	0.28	1.17
Iron Ore . . . . .	8	..	..	..	..	..	..	..	1	3	4	..	8	..	0.66	1.45	0.91
Manganese Ore. . . . .	6	..	..	2	..	..	..	..	1	..	3	..	6	0.83	0.10	0.59	0.22
Lead Ore . . . . .	10	..	15	2	1	..	..	..	1	1	..	..	20	3.68	..	..	3.30
Tin and Wolfram Ore. . . . .	8	..	..	2	..	..	1	..	..	1	4	..	8	..	0.65	5.19	0.93
Copper Ore . . . . .	1	..	2	..	..	..	..	..	..	..	..	..	2	12.66	..	..	4.54
Mica . . . . .	8	..	1	5	1	..	..	..	..	..	1	..	8	0.60	0.28	0.34	0.48
Gems . . . . .	3	..	..	2	..	..	..	..	..	..	1	..	3	..	10.38	4.98	7.61
Salt . . . . .	1	..	..	1	..	..	..	..	..	..	..	..	1	0.93	..	..	0.63
Limestone . . . . .	4	..	..	..	..	..	1	..	..	2	1	..	4	..	0.46	0.50	0.47
Igneous Rock Stone . . . . .	6	..	..	3	..	..	1	..	..	2	..	..	6	..	0.90	..	0.69
Murum . . . . .	1	..	..	..	..	..	..	..	..	1	..	..	1	..	0.28	..	0.24
Murum . . . . .	3	..	..	2	..	..	..	..	..	1	1	..	4	..	2.07	15.63	2.65
Fire clay . . . . .	1	..	..	1	..	..	..	..	..	..	..	..	1	..	1.29	..	0.96
<b>Total 1929 . . . . .</b>	<b>212</b>	<b>8</b>	<b>99</b>	<b>54</b>	<b>18</b>	<b>2</b>	<b>9</b>	<b>..</b>	<b>31</b>	<b>21</b>	<b>27</b>	<b>2</b>	<b>266</b>	<b>1.76</b>	<b>0.37</b>	<b>0.42</b>	<b>0.99</b>
<b>Total of preceding year. . . . .</b>	<b>221</b>	<b>3</b>	<b>84</b>	<b>58</b>	<b>16</b>	<b>1</b>	<b>17</b>	<b>7</b>	<b>29</b>	<b>14</b>	<b>28</b>	<b>2</b>	<b>259</b>	<b>1.64</b>	<b>0.44</b>	<b>0.44</b>	<b>0.97</b>
<b>Difference . . . . .</b>	<b>-9</b>	<b>+5</b>	<b>+15</b>	<b>-4</b>	<b>-3</b>	<b>+1</b>	<b>-8</b>	<b>-7</b>	<b>+2</b>	<b>+7</b>	<b>-1</b>	<b>..</b>	<b>+7</b>	<b>+0.12</b>	<b>-0.07</b>	<b>-0.02</b>	<b>+0.02</b>

## APPENDIX III.

Statement of prosecutions under the Indian Mines Act, and Indian Penal Code, during the year 1929.

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	Lakhimpur	1	1	1	Regulation 130 of the Indian Coal Mines Regulations, 1926.	
	Bankura	1	3	...	Regulation 15(2), (3) and (4).	All the accused were acquitted.
	Burdwan	2	3	2	Regulation 3(2) and (3) of the Indian Coal Mines Regulations, 1926.	One of the accused was acquitted.
	Do.	1	2	2	Regulations 82, 84, 146 and 148 of the Indian Coal Mines Regulations, 1926.	
	Do.	1	1	1	Regulation 127(a) of the Indian Coal Mines Regulations, 1926.	
	Do.	1	4	2	Regulation 15(3), 53(2) and 76(2).	Case against two of the accused was dropped.
Bengal	Do.	1	1	1	Regulations 100, 101, 104 and 149 of the Indian Coal Mines Regulations, 1926. and Section 28 of the Indian Mines Act, 1923.	
	Do.	1	6	2	Regulations 72, 121, and 146 of the Indian Coal Mines Regulations, 1926.	One of the accused died and three were acquitted.
	Do.	1	2	1	Rule 9 of the Bengal Government Rules and Section 28 of the Indian Mines Act, 1923.	One of the accused was acquitted.
	Do.	1	1	...	Regulation 148 of the Indian Coal Mines Regulations, 1926.	Accused was acquitted.
	Do.	1	2	2	Section 28 of the Indian Mines Act, 1923.	
	Do.	1	2	2	Section 19(3) of the Indian Mines Act, 1923 and Regulation 24(3) 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 1929—*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.</i>	Burdwan . . .	1	1	...	Regulation 144 of the Indian Coal Mines Regulations, 1926.	Acquitted.
	Gaya . . .	1	2	2	Regulation 39 of the Indian Metalliferous Mines Regulations, 1926.	
	Do. . .	1	1	1	Section 26 of the Indian Mines Act, 1923, and Rule 9 read with Section 28 of the Indian Mines Act, 1923.	
	Do. . .	6	6	5	Regulation 3(1) of the Indian Metalliferous Mines Regulations, 1926.	One of the accused was acquitted.
	Hazaribagh . . .	1	2	2	Regulations 71 and 81 of the Indian Metalliferous Mines Regulations, 1926.	
	Do. . .	1	2	1	Regulations 139 and 140 (1) of the Indian Coal Mines Regulations, 1926.	One of the accused was acquitted.
	Do. . .	1	1	...	Rule 17, made by the Bihar and Orissa Government under Section 80 of the Indian Mines Act, 1923.	Acquitted.
Bihar and Orissa.	Do. . .	5	5	5	Regulation 3(1) and (2) of the Indian Metalliferous Mines Regulations, 1926.	
	Manbhum . . .	1	9	7	Regulation 140 of the Indian Coal Mines Regulations, 1926, and Section 28 of the Indian Mines Act, 1923.	One of the accused died and the case against one was dropped.
	Do. . .	1	5	5	Special Rules 3, 5, 7, 15 and 21 and Regulations 82, 84, 147 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 1929—*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>	Manbham . . .	1	2	1	Regulation 23 of the Indian Coal Mines Regulations, 1926, read with Section 15 (1) and (2) of the Indian Mines Act, 1923.	One of the accused was acquitted.
	Do. . . .	1	1	1	Regulations 82, 84 and 148 of the Indian Coal Mines Regulations, 1926.	
	Do. . . .	1	1	1	Regulations 17 of the Indian Coal Mines Regulations, 1926.	
	Do. . . .	1	1	...	Regulation 23 of the Indian Coal Mines Regulations, 1926, read with Section 15 of the Indian Mines Act, 1923.	Acquitted.
	Do. . . .	1	1	1	Section 23(b) and Rule 9 made under Section 30 of the Indian Mines Act, 1923.	
	Do. . . .	1	1	1	Regulations 23 and 24 of the Indian Coal Mines Regulations, 1926.	
	Do. . . .	1	2	2	Regulation 69(1) and (2) of the Indian Coal Mines Regulations, 1926.	
	Do. . . .	1	2	2	Regulation 117 of the Indian Coal Mines Regulations, 1926.	
	Do. . . .	1	1	1	Regulation 58(f) (IV) of the Indian Coal Mines Regulations, 1926.	
	Do. . . .	2	5	4	Regulation 76(1) of the Indian Coal Mines Regulations, 1926.	One of the accused let off with a warning.
	Do. . . .	1	1	1	Regulations 144 and 146 of the Indian Coal Mines Regulations, 1926.	
	Do. . . .	1	4	4	Regulations, 158(k), 139 and 141 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 1929—*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>	Manbhurn . . .	1	1	1	Regulations 15 (2) and 76 (1) of the Indian Coal Mines Regulations, 1926.	
	Do. . . . .	1	1	1	Regulation 17 of the Indian Coal Mines Regulations, 1926.	
	Do. . . . .	1	2	...	Regulations 82 and 84 of the Indian Coal Mines Regulations, 1926.	Case dropped as neither of accused could be traced.
	Do. . . . .	3	4	1	Regulation 3 (3) of the Indian Coal Mines Regulations, 1926.	One of the accused died, one could not be traced and the case against one was dropped.
	Palaman . . .	1	3	3	Section 14 of the Indian Mines Act, 1923.	
	Santhal Parganas	2	2	2	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	
	Do. . . . .	1	2	2	Regulation 3 (3) of the Indian Coal Mines Regulations, 1926.	
	Shahabad . . .	1	1	1	Rules 6 and 9 of the Rules made by the Local Government and Section 15 (2) of the Indian Mines Act, 1923, read with Regulation 21 (1) of the Indian Metalliferous Mines Regulations, 1926.	
	Do. . . . .	1	1	1	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	
Burma . . . .	Mergui . . . .	5	5	3	Regulation 3 (1) and (2) of the Indian Metalliferous Mines Regulations, 1926.	Case against two of the accused was dropped as they could not be traced.



APPENDIX III—*contd.*

Statement of prosecutions under the Indian Mines Act, and Indian Penal Code, during the year 1929—*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 . . .	2	2	...	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	Case dropped as accused could not be traced.
Central Provinces.	Chanda . . .	1	3	3	Regulations 15 (2) and (4), 53 (2) and 137 (2) of the Indian Coal Mines Regulations, 1926.	
	Chhindwara . . .	1	1	1	Regulations 143 and 148 of the Indian Coal Mines Regulations, 1926.	
	Do. . . . .	1	2	2	Regulations, 144, 101 and 108 of the Indian Coal Mines Regulations, 1926.	
	Do. . . . .	1	1	...	Regulation 3 (3) of the Indian Coal Mines Regulations, 1926.	Case dropped.
	Do. . . . .	1	2	2	Regulations 109 and 110 of the Indian Coal Mines Regulations, 1926, read with special Rules 48 and 88.	
	Jubbulpore . . .	1	1	1	Regulations 38, 40 and 72 of the Indian Metalliferous Mines Regulations, 1926.	
	Do. . . . .	1	1	1	Section 26 of the Indian Mines Act, 1923, read with Sections 28 and 30.	
Madras . . . . .	Nellore . . . . .	2	2	1	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	Case against one of the accused was dropped.
	Vizagapatam . . .	3	3	3	Regulation 3 (2) of the Indian Metalliferous Mines Regulations, 1926.	
Punjab . . . . .	Jhelum . . . . .	1	1	...	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	Case dropped as accused could not be traced.
	Gurgaon . . . . .	1	1	...	Regulation 3 (3) of the Coal Mines Regulations, 1926.	Acquitted.

APPENDIX III—*concl'd.*

Statement of prosecutions under the Indian Mines Act, and Indian Penal Code, during the year 1929—*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.
Rajputana	Ajmer-Merwara	1	1	1	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	
United Provinces.	Banda	1	1	1	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	
	Hamirpur	1	1	1	Regulations 38, 46 and 48 of the Indian Metalliferous Mines Regulations, 1926.	
	Do	5	5	4	Regulation 3 (1) and (2) of the Indian Metalliferous Mines Regulations, 1926.	One of the Accused died.
TOTAL		86	134	99		

## APPENDIX IV.

## Miscellaneous.

## Statement No. 1.

## LIST OF INSPECTION CIRCLE.

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 certificates of competency to manage a coal mine were granted during the year 1929.

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.
Burton, Wallace Victor . . . .	345	18th February 1929	1849	31st July 1925.
Hearn, Ralph . . . . .	346	30th April 1929 .	1862	Ditto.
Milne, James Wallace . . . .	347	30th September 1929.	1415	4th August 1923.
Guha, Sudhir Chandra . . . .	348	Ditto . . . .	2318	25th January 1929.
Buxton, Lewis Sydney . . . .	349	18th December 1929.	1733	5th February 1925.
Coats, Robert Thomas . . . .	350	Ditto . . . .	1821	31st July 1925.

## (b) SECOND CLASS.

McDill, Robert . . . . .	29	30th September 1929.	6091	31st December 1906.
Brettell, George . . . . .	30	Ditto . . . .	2534	17th February 1927.

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

Names of persons to whom first and second class certificates of competency to manage a coal mine were granted during the year 1929—*contd.*

## INDIAN CERTIFICATES.

## (a) FIRST CLASS.

Name.	No. of certificate.	Date of certificate.	REMARKS.
Powell, Joseph Arthur . . . . .	201	26th April 1929.	
Hindley, Clement Walter Godfrey . . . . .	202	30th September 1929.	
Woods, Percy William Henry . . . . .	203	26th April 1929.	
Bhattacharjee, Prafulla Chandra . . . . .	204	Ditto.	

## (b) SECOND CLASS.

Name.	No. of certificate.	Date of certificate.	REMARKS.
Brahmachari, Sushil Kumar . . . . .	439	26th April 1929.	
Dandekar, Purushottam Bhaskar . . . . .	440	Ditto.	
Banerji, Hirala! . . . . .	441	Ditto.	
Scott, Sydney John . . . . .	442	Ditto.	
Tewari, Ananga Mohan . . . . .	443	Ditto.	
Roy, Shakti Pada . . . . .	444	Ditto.	
Banerjee, Santadas . . . . .	445	Ditto.	
Dutt, Monindra Nath . . . . .	446	Ditto.	
Sinha, Jitendra Nath . . . . .	447	Ditto.	

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

Names of persons to whom colliery surveyors' certificates of competency were granted during the year 1929.

Name.	No. of certificate.	Date of certificate.	REMARKS.
Basu, Kamal Krishna . . . .	44	20th February 1930.	
Bhattacharjee, Dakshaja Sankar . . . .	45	Ditto.	
Gupta, Sisir Kumar . . . . .	46	Ditto.	
Banerjee, Bibhuti Bhusan . . . . .	47	Ditto.	
Sen Gupta, Jiban Kumar . . . . .	48	Ditto.	
Dutt, Nibaran Chandra . . . . .	49	Ditto.	
Roy, Sudbir Chandra . . . . .	50	1st April 1930	

APPENDIX IV—*contd.*Miscellaneous—*contd.*

## Statement No. 3.

GOVERNMENT OF INDIA.

## DEPARTMENT OF INDUSTRIES AND LABOUR.

## NOTIFICATION.

*New Delhi, the 7th March 1929.*

**No. M.-1055.**—In exercise of the powers conferred by section 29 of the Indian Mines Act, 1923 (IV of 1923), the Governor General in Council is pleased to make the following regulations, the same having been previously published as required by sub-section (1) of section 31 of the said Act namely:—

*Regulations for prohibiting the employment of women underground in Mines.*

1. These regulations shall have effect from the 1st day of July, 1929.
2. In these regulations—
  - (1) "exempted mine" means—
    - (a) coal mines in Bengal, Bihar and Orissa and the Central Provinces;
    - (b) salt mines in the Punjab; and
  - (2) "underground workings" means any part of a mine situated beneath the superjacent ground, and includes vertical shafts provided for access to, or for the ventilation of such part; but does not include tunnels made and used only for convenience in disposing of spoil.
3. No woman shall be permitted to enter or remain in the underground workings of any mine other than an exempted mine, unless she is authorised in that behalf in writing by the Chief Inspector.
4. In an exempted mine—
  - (1) up to and including the 30th day of June, 1929:—
    - (a) no woman shall be permitted to enter or remain in the underground workings of the mine unless—
      - (i) she is employed to work therein in accordance with the provisions of sub-clause (b) or
      - (ii) she is authorised in that behalf in writing by the Chief Inspector, and
    - (b) the total number of women employed to work in the underground workings of the mine on any day in any year specified in column 1 of the Schedule shall not be a greater percentage of the total number of persons, both women and men, so employed in the mine on that day than the percentage specified against that year, in the case of exempted coal mines, in column 2 and in the case of exempted salt mines, in column 3 of the Schedule; and
  - (2) on and after the 1st day of July, 1929, no woman shall be permitted to enter or remain in the underground workings of the mine, unless she is authorised in that behalf in writing by the Chief Inspector.

APPENDIX IV—*contd.*Miscellaneous—*contd.*Statement No. 3—*contd.*

GOVERNMENT OF INDIA.

DEPARTMENT OF INDUSTRIES AND LABOUR.

## NOTIFICATION.

*New Delhi, the 7th March 1929.*

## SCHEDULE.

Year.	Percentage of the total number of persons, both men and women, employed underground.	
	Exempted coal mines.	Exempted salt mines.
	2	3
1st July 1929 to 30th June 1930 . . . . .	29	40
1st July 1930 to 30th June 1931 . . . . .	26	36
1st July 1931 to 30th June 1932 . . . . .	23	32
1st July 1932 to 30th June 1933 . . . . .	20	26
1st July 1933 to 30th June 1934 . . . . .	17	24
1st July 1934 to 30th June 1935 . . . . .	14	20
1st July 1935 to 30th June 1936 . . . . .	11	16
1st July 1936 to 30th June 1937 . . . . .	8	12
1st July 1937 to 30th June 1938 . . . . .	5	8
1st July 1938 to 30th June 1939 . . . . .	2	4

A. C. McWATTERS,  
*Secy. to the Govt. of India.*

APPENDIX IV—*contd.*Miscellaneous—*contd.*

## Statement No. 4.

## GOVERNMENT OF INDIA.

## DEPARTMENT OF INDUSTRIES AND LABOUR.

## NOTIFICATION.

*Simla, the 13th May 1929.*

No. M.-1055 (1).—In exercise of the powers conferred by section 29 of the Indian Mines Act, 1923 (IV of 1923), the Governor General in Council is pleased to direct that the following amendments shall be made in the Indian Coal Mines Regulations, 1926, the same having been previously published as required by sub-section (1) of Section 31 of the said Act, namely :—

## In the said Regulations—

1. In regulations 19 and 27, after the words "such date" the words "and in such areas" shall be inserted.
2. The proviso to regulation 26 shall be omitted.
3. In sub-regulation (5) of regulation 31, the words and figures "except as regards examinations held before the 1st day of March, 1927" shall be omitted.
4. Sub-regulation (1) of regulation 42 shall be omitted.
5. (i) Sub-regulation (2) of regulation 42 shall be re-numbered 42 (1) and for the sub-regulation so re-numbered the following shall be substituted, namely :—
 

"42. (1) Applications for admission to an examination shall be chargeable with fees which shall be paid in the manner prescribed in regulation 153 according to the following scale, namely :—

	Rs.
(a) in the case an examination for a first class manager's certificate	25
(b) in the case of an examination for a second class manager's certificate	15
(c) in the case of an examination for a surveyor's certificate	15
(d) in the case of an examination for a sirdar's certificate	5

- (ii) Sub-regulation (3) of regulation 42 shall be re-numbered sub-regulation (2) and for the sub-regulation so re-numbered the following shall be substituted, namely :—

"(2) The amount of any fee referred to in sub-regulation (1) less Re. 1, in the case of the fee paid for admission to an examination for a sirdar's certificate, and less Rs. 5, in any other case, shall be returnable to the person by whom it has been paid if the application of such person for admission to the examination is rejected."

6. Sub-regulation (2) of regulation 43 shall be omitted.
7. Sub-regulation (3) of regulation 43 shall be re-numbered sub-regulation (2), and in the sub-regulation so re-numbered for the words beginning with "The fee shall be paid" and ending with the words "the fee has been paid" the words and figures "The fees shall be paid in the manner prescribed in regulation 153" shall be substituted.
8. In regulation 44, for the words "in advance to the Chief Inspector in respect thereof" the words and figures "in the manner prescribed in regulation 153" shall be substituted.



APPENDIX IV—*contd.*Miscellaneous—*contd.*Statement No 4—*contd.*

## GOVERNMENT OF INDIA

## DEPARTMENT OF INDUSTRIES AND LABOUR.

## NOTIFICATION.

*Simla, the 13th May 1929.*

## 9. In regulation 50—

(i) For sub-regulation (3) the following shall be substituted, namely :—

“(3) A fee of five rupees shall be payable in the manner prescribed in regulation 153 in respect of an application for the grant of a manager's permit.”

(ii) In sub-regulation (6) the words and figures “on or after the first day of January 1927”, shall be omitted.

## 10. In clause (b) of regulation 58, the words and figures “The provisions of this clause shall not come into force until the first day of October, 1927”, shall be omitted.

## 11. In regulation 71—

(i) In sub-regulation (1) the words and figures “With effect from the first day of January, 1927”, shall be omitted.

(ii) In sub-regulation (2) after the word “rupee” the words and figures “payable in the manner prescribed in regulation 153”, shall be inserted.

## 12. To regulation 116 the following proviso shall be added, namely :—

“Provided that in the case of any mine an exemption may be given by the Chief Inspector on the ground that, on account of the special character of the mine the prohibition of the use of explosives other than “Permitted Explosives” is not necessary”.

## 13. In regulation 136 for the words and figures “the 1st day of July, 1927 or such later” the word “such” shall be substituted.

## 14. After regulation 152, the following regulation shall be added, namely :—

“153. The fees payable under regulations 42 (1), 43 (2), 44 and 71 (2) shall be paid directly into the Treasury or a branch of the Imperial Bank of India, and the receipt of the Treasury or Bank shall be sent to the Chief Inspector along with the application to which the fee relates. An application unaccompanied by such receipt shall be rejected. The fees payable under regulation 50 (3) shall be paid direct into the Treasury or a branch of the Imperial Bank of India, but such payment need not be made until the application to which the fee relates has been accepted.”

T. RYAN,

*Offg. Secy. to the Govt. of India.*

APPENDIX IV—*contd.*

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Miscellaneous—*contd.*

Statement No. 5.

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GOVERNMENT OF INDIA.

DEPARTMENT OF INDUSTRIES AND LABOUR.

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NOTIFICATION.

*Simla, the 13th May 1929.*

**No. M.—1055 (2).**—In exercise of the powers conferred by section 29 of the Indian Mines Act, 1923 (IV of 1923), the Governor-General in Council is pleased to direct that the following amendment shall be made in the Indian Metalliferous Mines Regulations, 1928, the same having been previously published as required by sub-section (1) of section 31 of the said Act, namely :—

In sub-regulation (1) of regulation 16 of the said Regulations for the words "mines or classes of mines" the words "mines or parts of mines or classes thereof" shall be substituted.

T. RYAN,

*Offg. Secy. to the Govt. of India.*

APPENDIX IV—*contd.*

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**Miscellaneous—*contd.*****Statement No. 6.**

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## NOTIFICATION.

No. 1025-T. Com.—16th September, 1929.—In exercise of the powers conferred by section 30 of the Indian Mines Act, 1923 (IV of 1923), the Governor in Council is pleased to make the following amendments in the rules published under this Government Notification No. 4788-Com., dated the 26th August 1924, namely :—

*Amendments.*

(a) For the word "form" in rule 9 under Chapter III of the rules for coal mines, *substitute* the word "forms".

(b) In the rules for coal mines in Chapter III, after rule 9, *insert* the following as rule 9A namely :—

"9A. At every mine in which women are employed underground, a statement shall be posted every day outside the office of the mine, showing in respect of the previous day, the total number of persons employed underground, the total number of women employed underground and the percentage of the total number of persons employed underground who are women."

(c) For the form of register of work persons under Schedule A of the rules for coal mines *substitute* the following forms :—

**APPENDIX IV—contd.**

**Miscellaneous—contd.**

**Statement 6—contd.**

**Register of work persons employed on surface.**

*Sections 28 and 30 (f) and (k), Indian Mines Act, 1923.*

Name of mine.....

Name of owners.....

Name and caste.	Age and sex.	Father's name or in the case of a married woman or widow husband's name.	Nature of work.	Sunday.		Monday.		Tuesday.		Wednesday.		Thursday.		Friday.		Saturday.		Number of hours worked during the week ending 19 .
				In.	Out.	In.	Out.	In.	Out.	In.	Out.	In.	Out.	In.	Out.	In.	Out.	

**APPENDIX IV—contd.**

**Miscellaneous—contd.**

**Statement 6—concld.**

**Register of work persons employed underground.**

*Sections 28 and 30 (f) and (k), Indian Mines Act, 1923.*

Name of mine.....

Name of owners.....

Name and caste.	Age and sex.	Father's name or in the case of a married woman or widow husband's name.	Nature of work.	Sunday.		Monday.		Tuesday.		Wednesday.		Thursday.		Friday.		Saturday.		Number of hours worked during the week ending 19 .	
				In.	Out.	In.	Out.	In.	Out.	In.	Out.	In.	Out.	In.	Out.	In.	Out.		
<b>Total number of persons employed underground.</b>																			
<b>Total number of women employed underground.</b>																			
<b>Percentage of persons employed underground who are women.</b>																			

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A. CASSELLS,  
Secy. to the Govt. of Bengal.

**APPENDIX IV—contd.**

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**Miscellaneous—contd.**

**Statement No 7.**

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**REVENUE DEPARTMENT.**

*Bombay Castle, 30th May 1929.*

No. 9156-24.—In exercise of the powers conferred by section 30 of the Indian Mines Act, 1923 (IV of 1923), the Governor in Council is pleased further to amend the rules published in Government Notification in the Revenue Department No. 10029, dated the 6th September 1924, as follows, namely:—

In rule 8 of the said rules, the word "underground" wherever it occurs and the proviso thereto shall be omitted.

By order of the Governor in Council,

J. W. SMYTH,

*Secretary to Government.*

APPENDIX IV—*contd.*Miscellaneous—*contd.*

## Statement No. 8.

GOVERNMENT OF THE CENTRAL PROVINCES  
COMMERCE AND INDUSTRY DEPARTMENT.

## NOTIFICATION.

*Nagpur, the 23rd December 1929.*

No. 3839—1322-XIII.—In exercise of the powers conferred by Section 30 of the Indian Mines Act, 1923 (IV of 1923), the Governor in Council is pleased to make the following amendments to the Central Provinces Regulation and Inspection of Mines Rules, 1924, published with the Central Provinces Gazette Notification No. 2226-XIII, dated the 24th September 1924, as subsequently amended :—

*Amendments.*

(1) In the second heading under Chapter V, for the words and figures " section 30 (d) and (f) " substitute the words and figures " section 30 (d), (f) and (k)."

(2) In rule 29 for the words " in form A " substitute the words " in forms A-1 and A-2".

(3) After rule 29 insert the following as a new rule :—

" 29-A.—At every mine in which women are employed underground, a statement shall be posted every day outside the office of the mine showing in respect of the previous day the total number of persons employed underground, the total number of women employed underground and the percentage of the total number of women employed underground to the total number of persons so employed."

(4) For Form " A " appended to the rules substitute the following Forms "A-1 and A-2".

**APPENDIX IV—contd.**

**Miscellaneous—contd.**

**Statement No. 8—contd.**

**FORM A-1.**

**Register of work persons employed on surface.**

*Section 28 and 30 (f) and (k), Indian Mines Act, 1923.*

Name of mine.....

Name of owner.....

Name and caste.	Age and sex.	Father's name or in the case of a married woman or widow husband's name.	Nature of work.	Sunday.		Monday.		Tuesday.		Wednesday.		Thursday.		Friday.		Saturday.		Number of hours worked during the week ending 19 .
				In.	Out.	In.	Out.	In.	Out.	In.	Out.	In.	Out.	In.	Out.	In.	Out.	



APPENDIX IV—contd.

Miscellaneous—contd.

Statement No. 8—concl'd.

FORM A-2-

Register of work persons employed underground.

Sections 28 and 30 (f and (k), Indian Mines Act, 1923.

Name of mine.....

Name of owner... ..

Name and caste.	Age and sex.	Father's name or in the case of a married woman or widow husband's name.	Nature of work.	Sunday.		Monday.		Tuesday.		Wednesday.		Thursday.		Friday.		Saturday.		Number of hours worked during the week ending 19 .
				In.	Out.	In.	Out.	In.	Out.	In.	Out.	In.	Out.	In.	Out.	In.	Out.	

By order of the Governor in Council,  
 N. J. ROUGHTON,  
 Financial Secretary to Government, Central Provinces.

APPENDIX IV—*contd.*Miscellaneous—*contd.*

## Statement No. 9.

GOVERNMENT OF MADRAS.  
DEVELOPMENT DEPARTMENT.

G. O. No. 1755, 16th October 1929.

Mines—Indian Mines Act, 1923—Rule 20 A—Abstracts of Act, Regulations and Rules—  
Amendments—Published.

Read—the following papers :—

G. O. No. 457, Development, dated 15th March 1929.

,, No. 1064, Development, dated 25th June 1929.

Order No. 1755, Development, dated 16th October 1929.

The Superintendent, Government Press, is requested to publish the appended notification in English and in the vernaculars in the Fort St. George Gazette. He is also requested to supply the Senior Translator to Government with six copies of the notification.

## NOTIFICATION.

In exercise of the powers conferred by clause (g) of section 30 of the Indian Mines Act, 1923 (Act IV of 1923) read with section 21 of the General Clauses Act, 1897 (Act X of 1897), the Governor in Council is hereby pleased to make the following amendments to the rules published with the notification of the Local Government in the Development Department, No. 6, dated 20th November 1924, at pages 35-36 of Part I of the Fort St. George Gazette, dated 6th January 1925, as subsequently amended, the same having been previously published as required by sub-section (1) of section 31 of the Indian Mines Act, 1923 :—

## AMENDMENTS.

In paragraph 1 of the abstract of the rules (for mines other than coal mines) prescribed by rule 20-A of the said rules—

(1) At the end of the second sub-paragraph the following shall be inserted, namely :—

“ Every latrine erected on the surface for the use of the work people of a mine shall be of a bore hole type approved by the Health Officer of the Municipality in which the mine is situated and by the District Health Officer, in case the mine is situated within a municipality without a separate Health Officer, or in any area outside a municipality.”

(2) For the third sub-paragraph, the following sub-paragraph shall be substituted, namely :—

“ The latrine shall be so partitioned off as to secure privacy, and, if a latrine for the use of one sex adjoins a latrine for the use of the other sex, the approaches shall be separate.”

(3) For the last sub-paragraph, the following sub-paragraph shall be substituted, namely :—

“ All latrines in or about a mine shall be kept in a sanitary condition.”

(By order of the Governor in Council)

S. V. RAMAMURTI,  
Secretary to Government.