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ANNUAL REPORT

OF THE

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FOR THE YEAR ENDING

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APPENDIX
STATISTICS OF MINES

Table
Number of workers and output of minerals during the

Province.	District and Mineral field.	Total Output.	Average number of								
			Underground.							Females.	Total Males and Females.
			Males.								
			Ore-men and Siclars.	Coal-cutters.	Loaders.	Other skilled labour.	Other unskilled labour.	Total Males.			
Tons.								CC			
Assam .	Lakhimpur	139,926	73	357	324	354	669	1,777	94	1,571	
	Naga Hills	58,575	13	49	81	104	140	385	...	385	
	Total	297,501	85	405	405	458	809	2,162	94	2,256	
Baluchistan .	Quetta-Pishin	6,075	8	23	48	1	...	79	...	79	
	Sibi Khost	2,643	5	19	10	...	...	43	..	43
	Total	11,217	13	41	67	1	...	122	...	122	
Bengal	Bankura, Raiganj	7,760	5	28	2	...	17	52	33	85	
	Birbhum	585	3	3	3	...	2	10	..	10	
	Burdwan	5,631,028	703	10,788	2,034	2,976	3,703	36,403	6,308	38,708	
	Total	5,639,063	600	10,810	2,039	2,976	3,811	20,465	6,428	26,893	
Bihar and Orissa.	Hazaribagh—										
	Bokaro	2,026,791	26	373	16	84	78	677	187	714	
	Giridih	804,116	217	2,041	1,227	180	743	5,311	1,258	6,569	
	Jharia	31,565	7	70	8	31	28	135	69	204	
	Karanpura	390,483	5	350	26	36	35	467	240	707	
	Ramgarh	380	...	..	...	...	...	...	...	...
	Manbhum—										
	Jharia	10,033,024	1,221	16,050	3,729	4,060	5,275	31,244	15,722	46,966	
	Raiganj	703,275	109	1,910	308	300	907	3,550	1,109	4,659	
	Palamu—										
Daltonganj	929	...	...	...	...	...	...	...	...
Hutar	215	...	5	6	...	1	12	4	1		
Sambalpur, Hingir-Bampur.	31,683	0	41	16	43	...	105	50	15		
Carried over	14,563,399	1,504	22,689	5,385	4,741	7,002	41,421	18,598	60,01		

DIX I.

AND MINERALS.

No. I.
year 1928 at mines under the Indian Mines Act.

persons employed daily in and about the mines.

Overmen and Sirdars.	Open workings.							Total Underground and Open workings.	Surface.						Grand Total.		
	Males.					Females.	Total Males and Females.		Males.				Females.	Total Males and Females.			
	Coal-outlets.	Loaders.	Other skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.					
A.L.																	
9	19	71	08	250	479	377	756	2,027	29	180	565	783	151	934	3,561		
...	...	...	...	...	...	...	...	385	16	70	167	280	...	250	644		
9	48	21	05	258	479	277	756	3,012	45	365	732	1,042	151	1,193	4,205		
...	...	...	...	...	...	...	...	79	...	10	23	33	...	33	112		
...	...	...	...	...	...	...	...	43	...	...	...	...	...	...	43		
...	...	...	...	...	...	...	...	123	...	10	23	33	...	33	155		
9	8	...	...	5	15	14	29	114	13	8	3	24	6	30	144		
...	...	...	...	...	...	...	...	10	...	1	2	3	1	4	14		
10	105	7	43	270	500	600	1,100	29,067	1,463	3,063	5,257	9,283	3,047	13,730	43,007		
21	173	7	42	281	524	674	1,198	30,091	1,476	3,072	5,202	9,810	3,054	13,764	43,855		
130	4,225	85	130	1,930	6,505	5,967	12,472	12,186	124	500	1,541	2,145	465	2,030	15,816		
1	60	30	...	...	117	83	200	6,769	100	157	1,125	1,382	448	1,830	8,599		
...	...	...	...	...	...	...	...	204	30	24	50	104	40	153	357		
6	375	54	50	317	607	437	1,234	1,070	63	133	593	609	206	875	2,845		
...	0	8	...	10	30	...	30	30	2	1	2	5	...	5	35		
33	417	80	54	140	674	431	1,105	48,071	1,777	4,845	10,672	17,294	6,756	24,050	73,121		
12	98	27	30	54	220	130	350	5,000	185	412	1,040	1,637	598	2,233	7,232		
1	4	...	...	...	5	8	8	8	...	...	...	...	...	...	8		
...	...	...	...	...	...	...	...	16	...	...	3	3	3	6	23		
...	...	...	...	...	...	...	...	155	...	52	...	52	18	65	220		
172	5,211	234	275	2,460	8,368	7,041	15,309	75,418	2,201	6,134	14,520	23,251	8,606	31,847	107,263		

APPEN
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.	
Overman and Strikers.	Coal-cutters.	Loaders.	Other skilled labour.	Other unskilled labour.	Total Males.					
Bihar and Orissa.	Brought forward	Tons. 14,633,269	1,594	22,089	5,335	4,741	7,062	41,431	18,598	CO 60,019
	Sonthal Parganas—									
	Jainty	48,069	11	127	35	40	41	244	38	273
	Raniganj.	67,222	12	187	10	33	68	309	67	376
	Total	14,788,580	1,617	23,003	5,370	4,813	7,171	41,974	18,693	60,667
Central Provinces.	Chanda, Ballarpur . . .	176,872	22	633	586	88	218	1,227	146	1,373
	Chhindwara, Poneh Valley .	558,481	72	1,367	264	407	235	2,335	1,047	3,382
	Total	732,353	94	2,000	590	495	453	3,562	1,193	4,755
Panjab .	Jhelum	24,074	20	145	15	20	128	334	...	334
	Mianwali	18,161	4	29	28	8	17	61	...	61
	Shahpur	3,817	...	27	...	...	...	27	...	27
	Total	46,152	24	201	38	34	145	442	...	442
	Grand Total (Coal) for 1928 .	31,515,796	2,033	36,469	8,450	8,777	12,380	68,727	28,408	97,135
	Ditto of preceding year.	31,108,976	2,901	36,952	8,213	8,702	13,498	60,315	28,041	97,356
	Difference .	+406,820	-868	-483	+237	+15	-118	+8,412	+3,367	-221

DIX I—contd.

AND MINERALS—contd.

No. I—contd.

year 1928 at mines under the Indian Mines Act—contd.

persons employed daily in and about the mines.

Overmen and Sirdars.	Open workings.							Total Under-ground and Open workings.	Surface.					Total Males and Females.	Grand Total.	
	Males.						Total Males and Females.		Males.				Total Males and Females.			
	Coal-cutters.	Loaders.	Other skilled labour.	Other unskilled labour.	Total Males.	Females.			Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.				Females.
AL—contd.	172	5,211	234	275	2,408	6,368	7,041	15,390	75,418	2,291	6,134	14,828	23,251	8,500	31,647	107,265
...	372	18	28	74	120	21	141	413
...	376	31	40	73	143	26	181	557
172	5,211	234	275	2,408	6,368	7,041	15,390	70,060	2,340	6,202	14,672	23,514	8,655	31,169	108,235	
...	1,378	53	67	251	391	100	491	1,864
7	8	3	23	18	20	27	80	3,408	88	381	562	1,031	600	1,591	5,060	
7	8	3	23	18	19	27	86	4,541	141	405	513	1,422	600	2,022	6,033	
...	334	18	24	186	178	...	178	512
...	81	0	6	52	64	25	80	1,000
3	20	...	...	...	23	...	23	50	34	...	...	34	...	34	64
3	20	...	...	...	23	...	23	465	58	20	168	276	25	301	766
212	5,370	315	435	3,031	8,448	8,019	17,463	114,507	4,000	10,047	21,000	36,007	13,445	49,642	164,189	
155	4,834	1,748	468	3,002	10,807	5,800	16,607	113,063	4,101	10,820	22,421	37,646	13,642	51,268	165,213	
+57	+026	-1,48	-38	-681	-1,364	+2,219	+855	+034	-341	-770	-431	-1,561	-157	-1,708	-1,074	

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.
		Tons.	IRON						
Bihar and Orissa	Singhbhum . . .	1,181,740	...	...	...	10	10	...	10
Burma . . .	Hezada . . .	...	...	...	...	...	...	...	...
	Mandalay . . .	550	...	...	...	...	...	...	...
	Northern Shan States.	74,254	4	39	...	71	114	...	114
	Total . . .	74,813	4	39	...	71	114	...	114
Central Provinces.	Drug . . .	195	...	...	...	...	...	...	...
	Grand Total (Iron ore) for 1928.	1,206,754	4	39	...	81	124	...	124
	Grand Total (Iron ore) for preceding year.	1,068,281	...	...	...	...	...	...	...
	Difference . . .	+138,473	...	...	...	...	...	...	...
			MANGANESE						
Bihar and Orissa	Singhbhum . . .	23,199	3	8	4	2	17	6	23
Bombay . . .	Belgaum . . .	1,603	...	...	...	...	...	...	...
	North Kanara . . .	3,601	...	...	...	...	...	...	...
	Panch Mahals . . .	63,040	3	32	4	6	45	...	45
	Total . . .	68,244	3	32	4	6	45	...	45

DIX I—contd.

AND MINERALS—contd.

No. I—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 Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total males.				Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males			
ORE.														
129	2,109	191	625	3,054	1,562	4,616	4,626	190	492	1,247	1,929	488	2,417	7,048
...	...	...	8	8	...	8	8	...	...	...	...	...	...	8
...	...	...	...	...	...	...	...	10	8	90	108	...	108	108
2	...	3	314	319	3	322	436	9	5	440	454	42	496	932
2	...	3	322	327	3	330	444	19	13	530	562	42	604	1,048
...	...	...	28	28	28	56	56	...	...	...	...	...	...	56
131	2,109	194	975	3,409	1,593	5,003	5,126	209	505	1,777	2,491	530	3,021	8,147
...
...
ORE.														
39	356	24	9	428	313	741	764	17	16	31	64	33	97	861
3	116	8	3	130	63	193	193	2	...	...	2	...	2	195
8	125	10	3	146	67	213	213	9	3	62	74	11	85	296
89	1,181	41	...	1,311	1,018	2,329	2,374	33	68	416	512	156	668	3,042
100	1,422	59	6	1,587	1,148	2,735	2,780	44	66	478	588	167	755	3,535

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 States. Shan	Tons. 442,503*	120	2,435	241	1,438	4,234	...	LEAD 4,234
	Southern States. Shan	1,151	21	235	23	10	292	...	292
	Grand Total (Lead ore), for 1928.	443,654	141	2,673	264	1,448	4,526	...	4,526
	Grand Total (Lead ore) for preceding year.	450,777	...	...	...	...	...	...	...
	Difference . . .	-7,123	...	...	...	...	...	...	...
Burma	Northern States. Shan	Tons. 1,241							ANTI MONIAL
	Total of preceding year.	503	...	...	...	...	...	...	Figures included
	Difference . . .	+738	...	...	...	...	...	...	...

*Refined Lead

DIX I—contd.

AND MINERALS—contd.

No. I—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 Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.			Clerical and super- vising staff.		Skilled labour.			Unskilled labour.	Total Males.	
ORE.														
1	59	60	...	60	4,294	130	123	442	695	...	695	4,989
...	292	3	36	59	98	5	108	395
1	59	60	...	60	4,586	193	159	501	793	5	798	5,384
...
...
LEAD.														
with those for Lead ore.														
...
...

tracted 77,143 tons.

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		Tons.							TIN
	Amherst	9	1	2	6	8	17	...	17
	Mergui	1,052	4	101	...	30	135	...	185
	Tavoy	1,712	11	372	53	2	438	...	438
	Thaton	4	...	...	...	...	...	...	..
	Grand Total (Tin Ore) for 1928.	2,777	16	475	59	40	590	...	590
	Grand Total (Tin Ore) for preceding year.	2,656	...	...	...	...	...	...	...
Difference	+121	...	...	...	...	...	...	...
Burma		Tons.							WOLFRAM
	Mergui	29	}						Figures included
	Tavoy	593							
	Grand Total (Wolfram Ore) for 1928.	622	...	...	...	...	...	Ditto	Ditto
	Grand Total (Wolfram Ore) for preceding year.	530	...	...	...	...	...	...	...
Difference	+92	...	...	...	...	...	...	...
Baluchistan		Tons.							CHROMITE
	Zhob	15,002	5	30	...	...	35	...	35
	Total	15,002	5	30	...	...	35	...	35

DIX I—contd.

AND MINERALS—contd.

No. I—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 Mates.	Minors.	Other skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.			
ORE.														
4	1	34	226	265	...	265	232	3	...	5	8	...	8	200
42	1,475	692	787	2,996	5	3,001	3,186	73	22	293	388	...	388	3,524
56	1,521	228	895	2,700	157	2,857	3,295	66	269	175	510	...	501	3,805
1	...	10	7	18	1	19	19	...	...	10	10	...	10	29
103	2,997	964	1,915	5,979	163	6,142	6,732	142	291	483	916	...	916	7,648
...
...
ORE.														
with those for Tin Ore.														
Ditto	Ditto	Ditto	Ditto	...	...	...	...	...	...	...	...	...	...	...
...
...
ORE.														
7	98	...	...	105	...	105	140	3	41	...	44	...	44	184
7	98	...	...	105	...	105	140	3	41	...	44	...	44	184

STATISTICS OF MINES

Table

Number of workers and output of minerals during the

Province	District and Mineral field.	Total Output.	Average number of persons employed						
			Underground.						
			Males.					Females.	Total Males and Females.
			Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.		
Burma . . .	Northern Shan States.	Tons. 10,978						COPPER	
									Figures included
	Total of preceding year.	11,872	...	...	...	...	...	...	...
	Difference . . .	- 894	...	...	...	...	...	...	...
Burma . . .	Northern Shan States.	Tons. 2,699						NICKEL	
									Figures included
	Total of preceding year.	...	...	...	...	...	...	...	...
	Difference . . .	+ 2,899	...	...	...	...	...	...	...
Burma . . .	Northern Shan States.	Tons. 64,122						ZINC CON	
									Figures included
	Total of preceding year.	58,286	...	...	...	...	...	...	...
	Difference.	+ 5,836	...	...	...	...	...	...	...
Burma . . .	Katha { Rubies. Sapphires Spinel	Carats. Es. 32,010-123,181	}	}	}	}	}	}	GE
		4,500- 54,853							
		3,370- 478							

DIX I—contd.

AND MINERALS—contd.

No. I—contd.

year 1928 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.	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.	
MATHE.															
with those for lead ore.															
...	
...	
SPEISS.															
with those for lead ore.															
...	
...	
CENTRATES.															
with those for lead ore.															
...	
...	
MS.															
1	4	37	267	309	...	309	309	7	73	118	198	...	198	507	

DIX I—contd.

AND MINERALS—contd.

No. I—contd.

year 1928 at mines under the Indian Mines Act—contd.

daily in and about the mines.

TITL.	Open workings.						Total Underground and Open workings.	Surface.						Grand Total.
	Males.					Females.		Males.					Females.	
	Foremen and Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.			Total Males and Females.	Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.			Total Males and Females.
...	2	45	...	10	12	23	126	4	4	...	6	...	8	134
4	13	...	22	39	45	84	152	2	2	18	23	...	22	174
...	...	18	...	18	3	21	21	2	...	1	3	4	7	28
1	4	85	74	164	4	168	430	...	...	...	...	...	...	430
...	...	...	...	...	...	...	24	...	...	...	...	...	...	24
1	4	85	74	164	4	168	454	...	...	...	...	...	...	454
5	19	1.1	96	231	64	295	753	8	6	19	33	4	37	790
...
...
TR. 15	67	44	20	155	89	194	194	1	1	4	6	...	6	200

ADIX I—*contd.*

AND MINERALS—*contd.*

No. I—*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 Mintes.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervis- ing staff.	Skilled labour.	Unskilled labour.	Total Males.			
TE—<i>contd.</i>														
2	8	25	18	53	...	53	96	1	...	3	4	...	4	100
6	108	84	41	239	...	239	239	...	...	...	...	...	...	239
8	116	100	59	293	...	292	335	1	...	3	4	...	4	339
23	183	153	88	447	39	486	529	2	1	7	10	...	10	539
...
...
STONE.														
93	853	70	373	889	229	1,118	1,125	51	149	223	414	35	449	1,574
9	40	10	...	59	25	84	84	3	2	26	31	...	31	115
3	...	2	338	243	...	243	243	...	...	...	...	...	...	243
12	40	12	238	302	25	327	327	3	2	25	31	...	31	358
12	298	...	...	250	137	387	387	7	9	45	61	101	165	552
100	941	121	705	1,867	2,350	4,217	4,217	32	109	346	487	333	825	5,043
...	93	46	...	139	93	231	231	8	...	45	53	28	81	312
2	...	...	18	20	9	29	29	3	...	9	12	...	12	41
114	1,272	167	723	2,276	2,588	4,864	4,864	50	118	445	613	470	1,033	5,947

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 Mutes.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.			
		Tons.								
Punjab	Attock . . .	161,414	LIME	
	Jhelum . . .	65,460	...	...	...	...	...	...
	Rawalpindi . . .	218,505	...	...	...	...	...	...
	Total . . .	440,379	...	...	...	...	...	...
	Grand Total (Limestone) for 1928 . . .	1,404,578	...	3	...	3	6	1		7
	Grand Total of preceding year . . .	1,182,235
Difference . . .	+ 272,343	...	...	...	...	...	...	...
		Tons.								
Bengal . . .	Birbhum . . .	94,629	IGNEOUS	
Bihar and Orissa . . .	Singbhum . . .	17,569	...	...	...	...	...	...
	Sonthal Parganas . . .	282,550	...	...	...	...	...	...
	Total . . .	300,119	...	...	...	...	...	...
Bombay	Colaba . . .	430	...	...	...	...	...	...
	Bombay Suburban . . .	35,035	...	...	...	...	...	...
	Surat . . .	66,955	...	...	...	...	...	...
	Total . . .	102,420	...	...	...	...	...	...

DIX I—contd.

AND MINERALS—contd.

No. I—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.					Total Males and Females.	
Foremen and Males.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.	Females.		
STONE—contd.														
30	52	46	140	268	...	268	268	6	4	286	296	...	296	564
3	88	...	...	91	...	91	91	4	2	256	262	...	262	353
7	280	...	...	287	...	287	287	3	...	730	733	...	733	1,020
40	420	46	140	646	...	646	646	13	6	1,372	1,291	...	1,291	1,937
239	2,085	295	1,474	4,113	2,842	6,955	6,962	117	266	1,966	2,549	505	2,854	9,816
...
...
ROCK														
1	300	59	50	440	15	455	455	11	37	506	554	189	743	1,198
2	232	...	...	254	122	376	376	1	...	4	5	9	14	390
15	245	497	406	1,163	160	1,323	1,323	61	304	205	570	171	741	2,064
17	497	497	406	1,417	282	1,699	1,699	62	304	209	575	180	755	2,454
...	2	...	...	2	...	2	2	1	...	2	3	2	5	7
...	...	...	65	65	...	65	65	3	42	79	124	...	124	196
3	48	40	472	563	23	586	586	4	...	...	4	...	4	590
3	50	40	587	630	23	653	653	8	42	81	181	2	183	786

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 Matea.	Minors.	Other skilled labour.	Other unskilled labour.	Total Males.		
		Tons.							
Burma	Bassain . . .	10,000	..	..	..	..	..	..	IGNEOUS
	Kyaukse . . .	15,000	..	..	..	..	..	..
	Thaton . . .	413,629	..	..	..	..	..	..
	Tonngoo . . .	52,394	..	..	..	..	..	..
	Total . . .	491,023	..	..	..	..	..	..
Central Provinces.	Chhindwara . . .	90	..	..	..	..	..	..
	Grand Total (Igneous rock) for 1928.	988,231	..	..	..	..	..	..
	Grand Total of preceding year.	934,737	..	..	..	..	..	..
	Difference . . .	+ 53,544	..	..	..	..	..	..
Bihar and Orissa.	Gaya . . .	65,292	..	..	..	..	..	..	STONE
	Shahabad . . .	17,070	..	..	..	..	..	..
	Singhbhum . . .	59,327	..	..	..	..	..	..
	Total . . .	141,689	..	..	..	..	..	..
Punjab	Jhelum . . .	100,450	..	..	..	..	..	..
	Rawalpindi . . .	119,224	..	..	..	..	..	..
	Total . . .	219,674	..	..	..	..	..	..

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 Males.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.			Clerical and supervis- ing staff.		Skilled labour.	Unskilled labour.			Total Males.		
ROCK—contd.															
4	40	50	...	94	...	94	94	...	...	...	...	...	...	94
...	11	15	7	33	20	53	53	2	...	...	2	...	2	55
38	805	485	398	1,726	56	1,782	1,782	48	120	172	335	10	345	2,127	
11	145	16	98	290	25	315	315	7	6	...	13	...	13	328	
53	1,021	566	503	2,143	101	2,244	2,244	52	126	172	350	10	360	2,604	
1	..	10	...	11	20	31	31	...	...	...	...	...	...	31
75	1,868	1,112	1,526	4,641	441	5,082	5,082	183	509	968	1,610	381	1,991	7,073	
...	
...	
(UNSPECIFIED).															
27	460	...	...	487	185	672	672	...	...	...	...	...	...	672
4	10	...	70	84	16	102	102	...	...	...	...	...	...	102
13	127	...	...	140	194	334	334	4	...	...	4	...	4	388
44	597	...	70	711	897	1,106	1,106	4	...	...	4	...	4	1,112
2	145	80	100	327	...	327	327	2	...	...	2	...	2	329
12	145	...	...	157	...	157	157	8	3	217	228	...	228	385
14	290	80	100	484	...	484	484	10	8	217	230	...	230	714	

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 Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.				Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.				
FIED)—<i>contd.</i>															
32	272	...	683	937	583	1,520	1,520	8	23	1	32	...	32	1,552	
8	266	120	110	504	178	682	682	20	11	11	42	18	60	742	
8	312	...	...	320	56	376	376	13	176	68	257	101	358	734
9	515	...	...	524	20	544	544	6	2	245	253	...	253	797
57	1,365	120	743	2,285	837	3,122	3,122	47	212	325	584	119	703	3,825	
115	2,252	200	913	3,460	1,234	4,714	4,714	61	215	542	818	119	937	5,651	
...	
...	
RITE.															
...	...	...	32	32	...	32	32	...	...	...	...	...	...	32
8	240	12	6	266	...	266	266	11	3	...	14	...	14	280	
8	240	12	38	298	...	298	298	11	3	...	14	...	14	312	
1	...	...	89	40	12	52	52	...	...	...	...	...	...	52
9	240	12	77	338	12	350	350	11	3	...	14	...	14	364	
...	
...	

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.	Minors.	Other skilled labour.	Other unskilled labour.	Total Males.		
Bihar and Orissa.	Shahabad	Tons 15,511	SAND
United Provinces.	Allahabad	48,610	...	...	...	...	...	...
	Banda	7,739	...	...	...	...	...	...
	Total	56,349	...	...	...	...	...	...
	Grand Total (Sandstone), for 1928.	71,860	...	...	...	...	...	...
	Grand Total of preceding year.	40,331	...	...	...	...	...	...
	Difference	+ 31,529	...	...	...	...	...	...
Bihar and Orissa.	Singhbhum	11,592	GRA Figures included
Bombay	Kaira	4,703	...	...	...	...	...	...
	Grand Total (Gravel) for 1928.	16,295	...	...	...	...	...	...
	Grand Total of preceding year.	11,103	...	...	...	...	...	...
	Difference	+ 5,192	...	...	...	...	...	...

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 Mates.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.			Clerical and supervis- ing staff		Skilled labour.	Unskilled labour.			Total Males.		
STONE.															
5	72	10	...	87	20	107	107	2	100	...	102	...	102	209	
11	82	...	168	261	102	363	363	...	3	1	4	...	4	367	
1	15	3	30	49	19	68	68	3	4	4	11	...	11	79	
12	97	3	198	310	121	431	431	3	7	5	15	...	15	446	
17	169	13	198	397	141	538	538	5	107	5	117	...	117	655	
...	
...	
VEL.															
with those	for Stone	(unspecified).	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	25	25	...	25	25	...	...	22	22	...	22	47
...	...	...	25	25	...	25	25	...	...	22	22	...	22	47
...	
...	

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 Matos.	Miners.	Other skilled labour.	Other unskilled labour.	Total Males.		
		Tons						MU	
Bihar and Orissa.	Singhbhum . . .	8,241				Figures included with those for			
United Provinces.	Allahabad . . .	5,704				Figures included with those for			
Bombay	Kaira	4,058				Figures included with those for			
	Bombay Suburban	1,275,084	...	...	...	...	...	...
	Total	1,279,142	...	...	...	...	...	...
	Grand Total (Muram) for 1925.	1,294,087	...	...	...	...	...	...
	Grand Total of preceding year.	1,083,060	...	...	...	...	...	...
	Difference	+211,027	...	...	...	...	...	...
								FIRE	
Bengal . . .	Burdwan . . .	16,640	...	...	...	...	...	...
	Bhagalpore . . .	99	...	4	...	...	4	4
Bihar and Orissa.	Manbhum . . .	10,469	...	...	...	...	...	...
	Palamanu . . .	5,880	...	...	...	...	...	...
	Sambalpur . . .	1,090	...	...	...	...	...	...
	Total	17,538	...	4	...	...	4	4

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.

Foremen and Mates.		Open workings.					Total Males and Females.	Total Underground and Open workings.	Surface.					Total Males and Females.	Grand Total.		
		Males.							Females.	Males.						Females.	
		Minors.	Other skilled labour.	Other unskilled labour.	Total Males.	Total Males and Females.				Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.				Total Males and Females.
RUM.																	
stone (unspecified).																	
stone (unspecified)																	
Gravel																	
45	...	47	786	878	479	1,357	1,357	21	52	10	83	2	85	1,442			
45	...	47	786	878	479	1,357	1,357	21	52	10	83	2	85	1,442			
45	...	47	786	878	479	1,357	1,357	21	52	10	83	2	85	1,442			
...			
...			
CLAY.																	
...	42	22	...	64	34	98	98	...	...	...	...	...	...	98
...	...	2	...	2	...	2	6	...	...	...	...	1	1	7
5	138	...	30	173	102	275	275	2	1	86	89	45	134	409			
1	16	4	...	21	22	43	43	1	12	13	26	7	33	76			
1	8	...	...	9	...	9	9	1	...	13	1	1	15	24	
7	162	6	30	205	124	329	333	4	13	112	129	54	183	516			

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 Mates.	Minors.	Other skilled labour.	Other unskilled labour.				
Rajputana	Ajmer Merwara	Nil	...	...	...	...	...	...	...	BER
	Total of preceding year.	...	...	...	...	...	...	...	...	...
	Difference	...	...	...	...	...	...	...	...	...
Burma	Tavoy	lbs. 82	...	...	...	...	...	...	...	BIS
	Total of preceding year.	48	...	...	...	...	...	...	...	...
	Difference	+ 34	...	...	...	...	...	...	...	...
	Grand Total Metal-liferous Mines for 1928.	...	933	11,815	1,232	3,448	17,428	3,377	20,805	...
	Grand Total of preceding year.	...	885	11,505	1,312	3,749	17,451	3,809	21,260	...
	Difference	...	+ 48	+ 310	- 80	- 301	- 23	- 432	- 455	...
	Grand Total (all Minerals), for 1928.	...	...	...	...	...	86,165	31,78	117,940	...
	Grand Total of preceding year.	...	...	...	...	...	86,766	31,850	118,616	...
	Difference	...	...	...	...	...	- 611	- 6	- 676	...

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.

Foremen and Mates.		Open workings					Total Underground and Open workings.	Surface.					Grand Total.	
		Males.				Females.		Males.				Females.		Total Males and Females.
		Miners.	Other skilled labour.	Other unskilled labour.	Total Males.			Clerical and supervising staff.	Skilled labour.	Unskilled labour.	Total Males.			
YL	...	10	...	10	...	10	10	...	...	...	...	...	...	10
...
...
MUTH.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
for tin ore.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...
...
1,751	25,788	3,018	10,105	41,562	20,434	1,996	82,801	1,636	3,703	10,991	16,333	4,396	20,731	108,532
1,720	25,812	2,566	9,123	39,221	21,897	61,118	82,378	1,867	3,834	10,555	16,257	5,444	21,699	104,077
+31	-24	+1,352	+982	+2,341	-1,463	+878	+423	-231	-131	+440	+78	-1,048	-968	-545
...	...	...	...	51,005	28,453	79,458	197,398	...	...	...	52,440	17,843	70,273	267,671
...	...	...	...	50,028	27,697	77,725	196,341	...	...	...	53,900	19,046	72,949	269,290
...	...	...	...	+977	+756	+1,733	+1,057	...	...	...	-1,473	-1,208	-2,676	-1,1619

DIX I—contd.

No. 2.

each important mining field during the year 1928.

Overmen and Sirdars. — Foremen and Mates.	Open workings.					Surface.			
	Miners.	Loaders.	Skilled Labour.	Un-skilled Labour.	Females.	Clerical and Supervising Staff.	Skilled Labour.	Un-skilled Labour.	Females.
46	44	46	45	46	45	58	52	51	51
46	44	43	45	47	45	58	51	50	49
48	40	40	...	...	37	48	48	47	48
50	50	50	54	50	50	51	52	52	50
35	35	...	...	...	...	45	45	42	36
...	...	...	...	...	...	...	42	45	...
45	...	...	54	54	54	52	52	52	50
44	42	...	50	46	41	46	48	50	50
46	45	...	45	47	45	47	45	45	43
46	44	...	46	46	43	47	45	44	44
52	49	...	45	44	51	51	49	49	45
49	49	...	49	49	48	48	50	46	48
48	47	...	48	47	45	48	48	48	44
47	...	...	...	47	...	52	40	40	52
48	46	...	49	49	43	50	50	49	...
48	48	...	...	...	...	48	52	46	48
43	40	...	48	43	43	46	44	45	44
52	48	...	52	52	...	46	...	48	...
47	47	...	47	53	49	46	50	45	32

Table

Analysis of figures relating to

Province.	District and mineral field.	Coal.					
		Opening stock.	Raisings.	Total.	Despatches.	Colliery consumption.	Coal delivered for coking.
		Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Assam .	Lakhimpur . . .	...	238,928	238,928	219,199	16,645	3,082
	Naga Hills . . .	125	58,575	58,700	57,899	656	...
	Total . . .	125	297,501	297,628	277,098	17,301	3,082
Baluchistan .	Quetta-Pishin . . .	1,465	8,675	10,160	9,267	...	...
	Sibi-Khost . . .	60	2,542	2,602	2,602	...	...
	Total . . .	1,545	11,217	12,762	11,869	...	...
Bengal .	Bankura, Raniganj . . .	628	7,780	8,408	6,590	1,495	...
	Birbhum „ . . .	4,423	585	5,013	928	78	...
	Bardwan „ . . .	372,352	5,631,628	6,004,580	5,262,163	426,384	27,134
	Total . . .	378,008	5,639,993	6,018,001	5,269,681	427,957	27,134
Bihar and Orissa.	Bokaro . . .	8,515	2,026,791	2,035,306	1,979,018	10,067	11,751
	Giridih . . .	15,393	894,116	819,511	755,422	43,458	...
	Hazaribagh Jharia . . .	44,183	81,555	75,788	23,195	5,929	16,215
	Karanpura . . .	2,749	390,493	393,242	375,785	15,628	...
	Ramgarh . . .	103	386	489	489	...	...

Table

Analysis of figures relating to

Province.	District and mineral field.	Coal.						
		Opening stock.	Raisings.	Total.	Despatches.	Colliery consumption.	Coal delivered for coking.	
		Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	
Bihar and Orissa—contd.	Man- bhum {	Jharia	1,145,219	10,633,924	11,779,143	9,077,334	574,796	927,080
		Raniganj	68,797	763,275	832,072	660,901	47,522	77,337
	Palaman, Daltonganj	...	929	929	...	929	...	
	.. Hutar	249	205	445	75	97	...	
	Sambalpur-Hingir Rampur	2,301	31,623	33,924	24,386	8,312	...	
	Southal Parganas {	Jainty	1,648	48,059	49,743	38,080	10,021	...
		Raniganj	32,450	57,222	89,672	63,565	12,094	...
		Total	1,321,634	14,783,580	16,110,214	12,936,280	763,653	1,032,333
Central Pro- vinces.	Chanda, Ballarpur	9,173	175,872	185,045	158,991	20,105	...	
		Chhindwara, Pench Valley	9,143	556,481	565,624	524,059	33,824	...
	Total	18,316	732,353	750,669	683,050	53,929	...	
Punjab	Jhelum	959	24,674	25,633	23,345	1,731	...	
		Mianwali	701	18,161	18,862	17,244	143	...
		Shahpur	3,317	3,317	3,317
	Total	1,660	46,152	47,812	43,906	1,874	...	
	Grand Total, 1928	1,721,288	21,515,796	23,237,064	19,263,904	1,264,914	1,062,549	

DIX I—contd.

No. 3—contd.

output of Coal and Coke, 1928.

		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.
1,055,905	1,199,983	4,492	9,950	51,587	595,709	50,457	596,567	595	2,218	5,027	6,874
...	46,812	...	1,450	...	60,186	...	59,280	...	611	...	1,745
...
...	273	...	...	...	...	...	...	...	...	...	...
...	1,226	...	...	...	...	...	...	...	...	...	...
...	1,642	...	...	...	...	...	...	...	...	...	...
...	14,013	...	60	...	...	...	6	...	...	...	54
1,108,551	1,315,748	4,492	11,490	54,792	670,266	53,415	670,203	627	2,849	5,242	8,704
...	5,949	...	...	...	...	...	...	...	...	...	...
...	7,741	...	...	...	...	...	...	...	...	...	...
...	13,690	...	...	...	...	...	...	...	...	...	...
...	557	...	...	...	...	...	...	...	...	...	...
...	1,475	...	...	...	...	...	...	...	...	...	...
...
...	2,032	...	...	...	...	...	...	...	...	...	...
1,108,551	1,625,718	4,501	11,972	56,533	689,002	55,099	689,205	667	2,998	5,268	8,771

APPENDIX I—contd.

Table No. 4.

Numbers of mines opened, closed and inspected, during the year 1928.

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.	
			Worked under mechanical power.	Not worked by mechanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspections.
COAL.								
Assam .	Lakhimpur	7	5	2	...	...	7	22
	Naga Hills	1	...	1	...	...	1	3
	Total	8	5	3	...	...	8	25
Baluchistan .	Quetta-Pishin	8	...	8	...	1	3	3
	Sibi, Khoat	2	...	2	...	...	2	2
	Total	10	...	10	...	1	5	5
Bengal .	Bankura, Raniganj	4	...	4	1	2	4	18
	Birbhum "	1	...	1	...	...	...	...
	Burdwan "	169	160	9	4	26	170	665
	Total	174	160	14	5	28	174	678
Bihar and Orissa.	Hazaribagh-- Bokaro	5	5	...	...	...	5	18
	Giridih	8	5	3	...	...	7	25
	Jharia	4	4	...	...	1	3	4
	Karanpura	3	3	...	...	...	3	7
	Bamgarh	1	...	1	...	1	...	...
	Maubhum-- Jharia	242	178	61	9	29	242	804
	Raniganj	43	18	25	5	12	40	151
	Palaman-- Daltongunj	1	1	...	1	...	2	2
	Hntar	1	...	1	...	...	1	1
Sambalpur, Hingir-Rampur	1	1	...	...	...	1	1	

APPENDIX I—contd.

Table No. 4—contd.

Numbers of mines opened, closed and inspected, during the year 1928—contd.

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.	
			Worked under mechanical power.	Not worked by mechanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspections.
COAL—contd.								
Bihar and Orissa—contd.	Sonthal Parganas—							
	Jainty	4	1	3	...		1	2
	Raiganj	5	4	1	...	1	2	4
	Total	318	220	98	15	44	316	1,019
Central Provinces.	Chanda, Ballarpur	8	7	1	1	2	8	14
	Chhindwara, Pench Valley	25	14	11	9	4	22	129
	Total	33	21	12	10	6	30	143
	Punjab.	Jhelum	10	...	10	1	1	8	9
Mianwali		1	...	1	...	...	1	1
Shahpur		2	...	2	...	...	1	1
Total		13	...	13	1	1	10	11
Grand Total (Coal) for 1928		556	406	150	31	80	543	1,881
Grand Total of preceding year		644	425	219	32	99	583	1,791
Difference		-88	-19	-69	-1	-19	-40	+90

APPENDIX I—*contd.*Table No. 4—*contd.*Numbers of mines opened, closed and inspected, during the year 1928—*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.
IRON ORE.								
Bihar and Orissa	Singhbhum	6	8	3	1	...	5	11
Burma	Henzada	1	...	1	1	...	...	...
	Mandalay	1	...	1	...	...	...	...
	Northern Shan States	5	...	5	...	...	3	3
	Total	7	...	7	1	...	3	3
Central Provinces. }	Drug	1	...	1	...	...	...	...
	Grand Total (Iron ore) for 1928	14	3	11	2	...	8	14
	Grand Total of preceding year.	14	3	11	1	1	6	7
	Difference . . . . .	...	...	...	+1	-1	+2	+7
MANGANESE ORE.								
Bihar and Orissa.	Singhbhum	16	...	16	7	2	7	7
Bombay	Belgaum	4	...	4	...	...	...	...
	North Kanara	2	...	2	...	...	...	...
	Panch Mahals	2	...	2	...	...	2	6
	Total	8	...	8	...	...	2	6

APPENDIX I—*contd.*Table No. 4—*contd.*Numbers of mines opened, closed and inspected, during the year 1928—*contd.*

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.	
			Worked under mechanical power.	Not worked by mechanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspections.
MANGANESE ORE—<i>contd.</i>								
Central Provinces.	Balaghat	82	1	81	11	27	7	8
	Bhandara	18	1	17	2	6	1	1
	Chhindwara	5	1	4	1	3	3	3
	Nagpur	40	5	35	2	14	25	26
	Total	145	8	137	16	50	36	38
Madras	Bellary	5	...	5	1	1	4	4
	Kurnool	1	...	1	...	...	...	...
	Vizagapatam	9	1	8	2	4	3	3
	Total	15	1	14	3	5	7	7
Grand Total (Manganese Ore) for 1928.		194	9	175	26	57	52	58
Grand Total of preceding year.		220	10	210	45	55	150	219
Difference		-36	-1	-35	-19	+2	-98	-161
LEAD ORE.								
Burma	Northern Shan States	1	1	...	...	...	1	10
	Southern Shan States	3	2	1	1	...	3	10
	Grand Total (Lead Ore) for 1928	4	3	1	1	...	4	20
	Grand Total of preceding year.	4	3	1	...	...	1	7
Difference . . . . .		...	...	...	+1	...	+3	+13

APPENDIX I—*contd.*Table No. 4—*contd.*Numbers of mines opened, closed and inspected, during the year 1928—*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.
GOLD.								
Bihar and Orissa	Singbhum	1	...	1	...	...	1	1
Madras	Anantapur . . . . .	...	...	...	...	...	...	...
	Grand Total (Gold) for 1928 .	1	...	1	...	...	1	1
	Grand Total of preceding year.	2	1	1	...	1	2	2
	Difference	-1	-1	...	...	-1	-1	-1
TIN AND WOLFRAM ORE.								
Burma	Amherst	7	...	7	7	1	1	1
	Mergui	121	4	117	45	29	1	1
	Lavoy	72	5	67	17	7	1	1
	Thaton	3	...	3	1	...	3	3
	Grand Total (Tin and Wolfram Ore) for 1928.	203	9	194	70	37	6	6
	Grand Total of preceding year.	200	7	193	44	46	27	28
	Difference	+3	+2	+1	+26	-9	-31	-22

APPENDIX I—*contd.*Table No. 4—*contd.*Numbers of mines opened, closed and inspected, during the year 1928—*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.
CHROMITE ORE.								
Baluchistan .	Quetta-Pishin . . . . .	...	...	...	...	...	...	...
	Zhob	32	...	32	...	...	2	3
	Total	32	...	32	...	...	2	3
Bihar and Orissa.	Singhbhum	3	...	3	1	1	3	3
	Grand Total (Chromite Ore) for 1928	35	...	35	1	1	5	6
	Grand Total of preceding year	37	...	37	2	...	8	9
	Difference	-2	...	-2	-1	+1	-3	-3
COPPER ORE.								
Bihar and Orissa.	Singhbhum	2	2	...	1	...	2	3
Burma	Honzada	1	...	1	...	...	...	...
Madras	Nellore	1	...	1	...	1	...	...
	Grand Total (Copper Ore) for 1928.	4	3	2	1	1	2	3
	Grand Total of preceding year.	3	1	2	...	...	1	2
	Difference	+1	+1	...	+1	+1	+1	+1
GEMS.								
Burma	Katha	2	2	...	...	...	...	...
	Total of preceding year	2	2	...	1	...	...	...
	Difference . . . . .	...	...	...	-1	...	...	...

APPENDIX I—contd.

Table No. 4—contd.

Numbers of mines opened, closed and inspected, during the year 1928—contd.

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.	
			Worked under me- chanical power.	Not worked by me- chanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspec- tions.
MAGNESITE.								
Madras . . .	Salem	4	...	4	1	..	2	2
	Total of preceding year	3	...	3	...	...	2	3
	Difference	+1	...	+1	+1	...	...	+1
BAUXITE.								
Bombay . . .	Kaira	1	...	1	...	...	1	1
Central Pro- vinces.	Jubbulpore	1	...	1	...	1	...	...
	Grand Total (Bauxite) for 1928	2	...	2	..	1	1	1
	Grand Total of preceding year	3	...	3	2	..	...	...
	Difference	-1	...	-1	-2	+1	+1	+1
STEATITE.								
Bihar and Orissa.	Singbhum	4	...	4	...	...	...	...
Central Pro- vinces.	Bhandara . . . . .	...	...	...	...	...	1	1
	Jubbulpore	5	...	5	2	...	...	...
	Total	5	...	5	2	...	1	1
Madras . . .	Nellore	2	...	2	...	...	2	2

APPENDIX I—*contd.*Table No. 4—*contd.*Numbers of mines opened, closed and inspected, during the year 1928—*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.
United Provinces.	STEATITE—<i>contd.</i>							
	Hamirpur	15	...	15	5	11	11	11
	Jhansi	2	...	2	...	...	...	...
	Total	17	...	17	5	11	11	11
	Grand Total (Steatite) for 1928	28	...	28	7	11	14	14
	Grand Total of preceding year	16	...	16	6	2	8	8
	Difference	+12	...	+12	+1	+9	+6	+6
Bihar and Orissa.	SLATE.							
	Monghyr	5	...	5	...	1	6	6
Punjab	Gurgaon	3	...	3	...	...	3	3
	Kangra	5	...	5	...	...	...	...
	Total	8	...	8	...	...	3	3
	Grand Total (Slate) for 1928	13	...	18	...	1	9	9
	Grand Total of preceding year	18	...	18	2	2	5	5
	Difference	-5	...	-5	-2	-1	+4	+4

APPENDIX I—contd.

Table No. 4—contd.

Numbers of mines opened, closed and inspected, during the year 1928—contd.

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.	
			Worked under me- chanical power.	Not worked by me- chanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspec- tion.
LIMESTONE.								
Bihar and Orissa.	Shahabad	10	2	8	...	...	10	11
	Singhbhum . . . . .	...	...	...	...	...	1	1
	Total	10	2	8	...	...	11	12
Burma	Amherst	2	...	2	1	...	1	1
	Northern Shan States	3	...	3	...	...	2	2
	Total	5	...	5	1	...	3	3
Central Pro- vinces.	Bilaspur	3	...	3	...	...	...	...
	Jubbulpore	16	2	14	3	5	18	14
	Raipur	2	...	2	...	...	...	...
	Yeotmal	1	...	1	...	...	...	...
	Total	22	2	20	3	5	13	14
Punjab	Attock	2	...	2	...	...	1	2
	Jhelum	1	...	1	...	...	1	1
	Rawalpindi	1	...	1	...	...	1	1
	Total	4	...	4	...	...	3	4
Grand Total (Limestone) for 1928.		41	4	37	4	5	30	33
Grand Total of preceding year.		45	3	42	13	4	22	24
Difference		-4	+1	-5	-9	+1	+8	+9

APPENDIX I—*contd.*Table No. 4—*contd.*Numbers of mines opened, closed and inspected, during the year 1928—*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.	
			IGNEOUS ROCK.						
Bengal	Birbhum	4	1	3	...	...	4	7
Bihar and Orissa.	Singbhum	2	...	2	...	...	...	...
	Sonthal Parganas	57	...	57	15	15	64	90	
	Total	59	...	59	15	15	64	90	
Bombay	Bombay Suburban	2	...	2	...	...	2	4
	Colaba	1	...	1	...	1	1	2	
	Surat	6	...	6	6	...	6	12	
	Total	9	...	9	6	1	9	18	
Burma	Bassein	1	...	1	...	...	1	1
	Kyaukse	1	...	1	1	...	...	...
	Toungoo	3	...	3	1	...	3	3	
	Thaton	9	...	9	2	...	8	15	
	Total	14	...	14	4	...	12	19	
Central Provinces.	Chhiudwara	1	...	1	1	...	...	...
		Grand Total (Igneous Rock) for 1928.	87	1	86	26	16	69	134
		Grand Total of preceding year	64	1	63	48	6	53	55
		Difference	+23	...	+23	-22	+10	+46	+79
			STONE (unspecified).						
Bihar and Orissa.	Gaya	3	...	3	...	...	...	...
	Shahabad	2	...	2	1	...	...	...
	Singbhum	6	...	6	...	...	5	5
	Total	11	...	11	1	...	5	5	

APPENDIX I—*contd.*Table No. 4—*contd.*Numbers of mines opened, closed and inspected, during the year 1928—*contd.*

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.	
			Worked under mechanical power.	Not worked by mechanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspections.
STONE (unspecified)—<i>contd.</i>								
Delhi	Delhi	1	...	...	...	...	1	1
Punjab	Jhelum	2	...	2	...	...	1	1
	Bawalpindi	1	...	1	...	...	2	2
	Total	3	...	3	...	...	3	4
United Provinces.	Allahabad	9	...	9	...	...	7	8
	Banda	3	...	3	2	1	5	5
	Jhansi	12	...	12	2	5	5	5
	Saharaupur	2	...	2	...	...	...	...
	Total	26	...	26	4	6	17	18
	Grand Total (Stone unspecified) for 1928.	41	...	40	5	6	26	28
	Grand Total of preceding year.	33	...	33	20	7	8	8
	Difference	+8	...	+7	-15	-1	+18	+20
LATERITE.								
Barma	Toungoo	1	...	1	...	...	...	...
	Tfaton	2	...	2	1	...	1	2
	Total	3	...	3	1	...	1	2
Central Provinces.	Jubbulpore	1	...	1	1	...	...	...
	Grand Total (Laterite) for 1928	4	...	4	2	...	1	2
	Grand Total of preceding year	2	...	2	2	...	1	1
	Difference	+2	...	+2	...	...	...	+1

APPENDIX I—contd.

Table No. 4—contd.

Numbers of mines opened, closed and inspected, during the year 1928—contd.

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.	
			Worked under me- chanical power.	Not worked by mechanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspec- tions.
SANDSTONE.								
Bihar and Orissa	Shahabad	2	...	2	...	...	5	7
United Prov- inces.	Allahabad	6	...	6	1	...	...	...
	Banda	2	...	2	...	...	...	...
	Total	8	...	8	1	...	...	...
	Grand Total (Sandstone) for 1928.	10	...	10	1	...	5	7
	Grand Total of preceding year.	6	...	6	1	..	10	10
	Difference	+4	...	+4	...	...	-5	-3
GRAVEL.								
Bihar and Orissa	Singhbhum . . . . .	..	...	...	...	...	..	..
Bombay	Kaira	1	...	1	...	...	1	1
	Grand Total (Gravel) for 1928	1	...	1	...	...	1	1
	Grand Total of preceding year	1	...	1	...	...	...	..
	Difference . . . . .	..	...	...	...	...	+1	+1

APPENDIX I—*contd.*Table 4—*contd.*Numbers of mines opened, closed and inspected, during the year 1928—*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.
MURUM.								
Bihar and Orissa	Singbhum . . . . .	...	...	...	...	...	...	...
Bombay	Bombay Suburban	2	...	2	2	...	2	4
	Kaira . . . . .	...	...	...	...	...	...	...
	Total	2	...	2	2	...	2	4
United Provinces.	Allahabad . . . . .	...	...	...	...	...	...	...
	Grand Total (Murum) for 1928	2	...	2	2	...	2	4
	Grand Total of preceding year	...	...	...	...	...	...	...
	Difference	+2	...	+2	+2	...	+2	+4
FIRE CLAY.								
Bengal	Burdwan	1	...	1	...	...	...	...
Bihar and Orissa.	Bhagalpur	1	...	1	...	...	2	2
	Manbhum	4	...	4	1	1	...	...
	Palaman	1	1	...	...	...	1	1
	Sambalpur	1	...	1	1	...	...	...
	Total	7	1	6	2	1	3	3

APPENDIX I—*contd.*Table No. 4—*contd.*Numbers of mines opened, closed and inspected, during the year 1928—*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.
Central Provinces.	Jubbulpore	5	1	4	...	1	2	2
	Grand Total (Fire Clay) for 1928	13	2	11	2	2	5	5
	Grand Total of preceding year	13	3	10	3	2	5	5
	Difference . . . . .	...	-1	+1	-1	...	...	...
Bihar and Orissa.	CHINA CLAY.							
	Bhagalpur	3	...	3	2	...	...	...
	Singhbhum	4	2	2	...	...	3	3
	Total	7	2	5	2	...	3	3
Delhi	Delhi . . . . .	...	...	...	...	...	1	1
	Grand Total (China clay) for 1928	7	2	5	2	...	4	4
	Grand Total of preceding year	12	3	9	3	6	4	4
	Difference	-5	-1	-4	-1	-6	...	...
Bengal	Burdwan	1	1	...	...	...	...	...
	CLAY.							
Central Provinces.	Jubbulpore	1	...	1	..	...	...	...
	Grand Total (Clay) for 1928	2	1	1	...	...	...	...
	Grand Total of preceding year .	1	1	...	...	...	...	...
	Difference	+1	...	+1	...	...	...	...

APPENDIX I—*contd.*Table No. 4—*contd.*Numbers of mines opened, closed and inspected, during the year 1928—*contd.*

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.				INSPECTIONS.	
			Worked under me- chanical power.	Not worked by me- chanical power.	Opened during the year.	Closed during the year.	Number of mines inspected.	Number of inspec- tions.
BARYTES.								
Madras . . .	Kurnool	6	...	6	2	3	3	3
	Total of preceding year	5	...	5	3	...	2	2
	Difference	+1	...	+1	-1	+3	+1	+1
APATITE.								
Bihar and Orissa.	Singhbhum	1	...	1	...	...	...	...
	Total of preceding year	1	...	1	...	...	..	...
	Difference . . . . .	...	...	...	...	...	...	...
ASBESTOS.								
Madras . . .	Cuddapah	1	...	1	...	...	...	...
	Total of preceding year	2	...	2	1	...	...	...
	Difference	-1	...	-1	-1	...	...	...
OCHRE.								
Central Pro- vinces.	Chanda	1	..	1	1	...	...	...
	Jubbulpore	1	...	1	1	...	...	...
	Total	2	...	2	2	...	...	...

APPENDIX I—*contd.*Table No. 4—*concl'd.*Numbers of mines opened, closed and inspected, during the year 1928—*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.
United Provinces.	Banda	1	...	1	...	1	...	...
	Grand Total (Ochre) for 1928 .	3	...	3	2	1	...	...
	Grand Total of preceding year	4	...	4	2	4	1	1
	Difference .	-1	...	-1	...	-3	-1	-1
Madras .	Salem	1	...	1	...	...	1	1
	Total of preceding year .	3	...	3	2	2	1	1
	Difference .	-2	...	-2	-2	-2	...	...
Rajputana .	Ajmer-Merwara	2	...	2	2	2	1	1
	Total of preceding year .	...	...	...	...	...	...	...
	Difference .	+2	...	+2	+2	+2	+1	+1
	Grand Total (Metalliferous Mines).	1,393	122	1,270	358	422	439	529
	Grand Total of preceding year.	1,348	97	1,251	413	319	513	604
	Difference .	+45	+25	+19	-55	+103	-74	-75
	Grand Total (All minerals)	1,948	528	1,420	389	502	982	2,410
Grand Total of preceding year.	1,992	522	1,470	445	418	1,096	2,395	
Difference .	-44	+6	-50	-56	+84	-114	+15	

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- nese ore.	Mica.	Lime- stone.	Salt.	Gold.	Copper ore.	Wolfram ore.	Iron ore.	Chro- mite ore.	Tin ore.	Lead ore.	Silver.
	Tons.	Tons.	Cwts.	Tons.	Tons.	Troyozs.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Troy ozs.
1919	31,759,727	420,184	41,063	140,810	174,974	11,191	82,750	2,905	101,322	14,087	701	24	753
1920	17,082,711	552,630	44,666	161,340	181,092	13,045	28,167	1,733½	148,472	23,123	1,056	128,908	2,570,595
1921	18,358,934	264,254	29,470	284,252	123,084	10,108	32,560	864½	286,190	27,727	1,032	144,089½	3,555,640
1922	18,168,988	392,322	30,080	140,607	187,157	8,388	30,764	942	240,363	10,093	1,080	172,018	4,209,138
1923	18,763,967	640,378	31,605	230,161	113,700	1,510	6,550	872	292,033	26,288	1,021	245,925	4,844,643
1924	20,256,034	669,331	40,529	513,333	159,018	3,046	38	739	430,805	27,850	1,627	310,236	5,287,966
1925	19,969,041	710,347	45,383	614,232	125,366	288	...	772½	529,376	21,236	2,307	321,854	4,931,569
1926	20,093,024	857,069	41,451	827,232	122,801	1,053	9,568	751	600,363	16,455	2,562	362,904	5,103,705
1927	21,108,978	878,521	42,081	1,132,235	145,311	2,395	5,010	530	1,068,281	17,066	2,056	450,777	6,004,583
1928	21,515,798	718,656	44,829	1,404,578	145,543	7	18,055	622	1,376,754	17,167	2,777	443,654	7,404,723

Table No. 6.

The following table shows the amount of coal raised, the average number of persons working daily and the death-rates during the years 1919 to 1928 in respect of coal mines under the Indian Mines Act :—

Year.	Amount of coal raised.	Average number of persons work- ing daily below and above ground.	Number of deaths below and above ground.	Death-rates.	
				Per 1,000,000 tons raised.	Per 1,000 per- sons working daily below and above ground.
1919	Tons. 21,759,727	190,052	266	11.95	1.37
1920	17,082,711	175,943	172	10.07	0.98
1921	18,358,934	190,617	257	13.99	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	21,108,978	165,213	181	8.57	1.10
1928	21,515,798	164,139	218	10.13	1.33

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	8	20	188	60	...	...	...	60	248
Bokaro	700	75	175	...	739	1,689	20	684	...	30	734	2,423
Central Provinces . . . . .	...	...	...	...	2	2	40	190	60	1	291	293
Giridih . . . . .	...	120	...	110	398	628	382	2,423	64	2	2,871	3,499
Jharia	2,806	605	2,051	856	3,765	10,053	7,144	14,427	3,423	589	25,580	35,663
Karanpura . . . . .	...	...	125	35	144	304	...	215	...	...	215	519
Raniganj	2,806	1,061	531	447	292	5,130	4,701	9,522	2,372	99	16,694	21,833
Total	6,314	1,861	3,042	1,456	5,360	18,033	12,347	27,461	5,919	718	46,445	64,478

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	248	...	...	...	...	248
Bengal	48	18,512	...	...	1	50	18,512
Bihar and Orissa	60	45,425	...	...	2	363	45,788
Bombay . . . . .	...	...	...	...	1	171	171
Burma . . . . .	...	...	2	3,547	5	1,522	5,129
Central Provinces	1	293	...	...	6	377	670
Madras . . . . .	...	...	...	...	1	224	224
Punjab . . . . .	...	...	...	...	1	475	475
Total	111	64,478	2	3,547	17	3,242	71,267

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.		
Goodman . . . . .	...	56	56	...	...	23	28	...	56
Hardiux	5	...	...	...	5	...	...	5	5
Mavor and Coulson	70	...	5	65	...	59	1	10	70
Siskol . . . . .	...	...	...	...	...	...	...	...	...
Sullivan . . . . .	...	15	15	...	...	15	...	...	15
Total	75	71	76	65	5	102	29	15	146

Jharia coalfield 75 machines }
 Raniganj coalfield 67 " } Total number of square feet
 Central Provinces coalfield 4 " } undercut-8,372,689.

Table No. 10.

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

Assam.	Bengal.	Bihar and Orissa.	Central Provinces.	Punjab.	Total.
12	21	32	8	1	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.
1,862	6	8,170	7,756	2	2	17,798

471 were locked by screws, 7,335 by lead rivets, and 9,992 by magnetic means.

Table No. 12.

Statement of explosives used during the year 1928 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	150,887	89,773	46,035	...	5,421	7,885	32,629	69,755	402,385
Gelignite	99,703	14,175	105,180	151,226	699	6,263	34,182	13,625	425,023
Monobel	50,955	...	...	...	...	...	...	...	50,955
Stonobel	57,490	...	...	...	...	...	...	...	57,490
Bobbinit	22	...	...	...	...	...	...	...	22
Gunpowder	2,155,180	23,173	144,237	...	...	209,650	40,731	138,741	2,711,712
Compressed gunpowder	31,089	...	...	...	...	...	...	...	31,089
Number of detonators used.	1,085,346	891,892	776,417	336,454	71,416	42,519	261,716	853,102	3,818,392

APPENDIX II.
ACCIDENTS IN MINES.

Table No.
Fatal Accidents during the year 1928.

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.
EXPLOSIONS AND IGNITION OF FIRE-DAMP—(3 deaths).						
1	22nd June, 8 A. M.	Ningah mine, Kalipahari P. O., Bengal.	Lodna Colliery Co. (1920), Ltd.	Rameswar Bauri, (m.), 35, <i>Sotns-cutter.</i>	Coal	Whilst four stone cutters were working in the stone above a coal seam an ignition of gas occurred. All four were burnt, and one of them succumbed to his injuries. Inspection and inquiry made.
2	28th September, 8-30 A. M.	Jamadoba mine, Jeaigora P. O., Bihar and Orissa.	Tata Iron & Steel Co., Ltd.	Tahalu Gopo, (m.), 45; Krishna Mahato, (m.), 34, <i>Coal-cutters.</i>	Coal	At the commencement of their shift four miners carrying open lamps went to the face of a main gallery 5 feet wide, 6 feet high and rising at 1 in 7. An accumulation of fire-damp was ignited and they were all severely burnt. Two of them subsequently died. Fire-damp had not previously been found in the mine. Inspection and inquiry made.
FALLS OF ROOF AND SIDES.						
(a) Falls of roof—(84 deaths).						
3	4th January, 1-15 P. M.	Kendwadih mine, Kusunda P. O., Bihar and Orissa.	East Indian Coal Co., Ltd.	Budhna Dosadh, (m.), 16; Gujri Harin, (f.), 25, <i>Coal-carriers.</i>	Coal	The deceased were sitting in a gallery beneath roof coal in which a shot hole was being tamped, when a mass of coal, 10' x 5' x 2', fell on them from a concealed "slip" at a height of 10 feet. They sustained fatal injuries. Inspection and inquiry made.
4	5th January, 11 P. M.	Aldih mine, Sitarampar P. O., Bengal.	Aldih Coal Co., Ltd.	Dayal Kole, (m.), 17, <i>Coal-cutter.</i>	Coal	Whilst a miner was loading his basket with coal in a working gallery, a mass of roof coal, 15' x 4' x 1', fell from a height of 10 feet and killed him instantly. Inspection and inquiry made.

5	5th January, 11-30 P. M.	Kurburbari mine, Giridib P. O., Bihar and Orissa.	East Indian Rail- way.	Kartali Meah, (m.), 42 ; Raghu Hazam, (m.), 42, <i>Coal-cutters</i> ; Diloo Barhi, (m.), 47, <i>Stone-cutter.</i>	Coal	Eight miners were engaged in cutting out a small pillar of coal at the edge of a goaf when a mass of roof stone, 56' x 47' x 15', fell from a height of 14 feet. Three of the men were struck by the falling mass and killed instantly. Inspection and inquiry made.
6	8th January, 2-30 A. M.	Kirkend mine, Kusunda P. O., Bihar and Orissa.	Marine Coal Co., Ld.	Hem Lal Turi, (m.), 35, <i>Coal-cutter.</i>	Coal	Deceased left his appointed working place and went through a fence to rob coal from the side of a pillar. A mass of stone, 2' x 2' x 2', fell on him from a height of 14 feet, killing him instantly. Inspection and inquiry made.
7	12th January, 3 P. M.	Damudarpur mine, Nandi P. O., Bengal.	Bengal Coal Co., Ld.	Bhaloo Singh, (m.), 37, <i>Coal-cutter.</i>	Coal	Two coal-cutters were dressing down top coal in a gallery, after a shot had been fired, when a mass of stone, 6' x 3'-3" x 7", fell on them from a height of 9'-6". One of them was killed instantly and the other was severely injured. Inspection and inquiry made.
8	19th January, 5 P. M.	Dharisajoba mine, Kusunda P. O., Bihar and Orissa.	Dharisajoba Colliery Co.	Sagram Manjhi, (m.), 26, <i>Coal-cutter.</i>	Coal	A miner was killed in a gallery by a mass of roof coal, 6' x 4' x 2', which fell on him from between "slips" at a height of 9 feet. The gallery was fenced. It was presumed that the man had entered it with the object of loading loose coal. Inspection and inquiry made.
9	31st January, 6 P. M.	Chanch mine, Barakar P. O., Bihar and Orissa.	Bengal Coal Co., Ld.	Lakhoo Manjhi, (m.), 28, <i>Coal-cutter.</i>	Coal	In a gallery, 12 feet wide and 7 feet high, a mass of stone, 5' x 6' x 1', fell from the roof. A coal-cutter employed in the gallery was severely injured and died two days later. Inspection and inquiry made.
10	2nd February, 7-45 P. M.	Benahir mine, Jharua P. O., Bihar and Orissa.	Standard Coal Co., Ld.	Monmatha Nath Chakrabarty, (m.), 48, <i>Head Overman.</i>	Coal	Whilst timber was being withdrawn from a goaf in a seam 26 feet thick the roof commenced to "weight" and the workmen retreated. About thirty minutes later when the roof was quiet an overman entered the goaf and was struck on the head by a small piece of stone which fell from the roof. The injury caused death three days later. Inspection and inquiry made.
11	16th February, 5 A. M.	West Gopalchuck mine, Kusunda P. O., Bihar and Orissa.	Gopalchuck Coal Co., Ld.	Kamul Dhobi, (m.), 40, <i>Coal-cutter.</i>	Coal	Whilst loading coal in a depillaring area, deceased was struck on the head by a wedgeshaped block of coal, 4'-8" x 0'-1'-6" x 1' 6", which fell from between two slips in the roof, 17 feet above. He was killed instantly. Inspection and inquiry made.

APPENDIX II.—contd.

Fatal Accidents during the year 1928—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—contd.						
(a) Falls of roof—(84 deaths)—contd.						
12	17th February, 12-30 P.M.	Chowrasio mine, Dishergarh P. O., Bihar and Orissa.	Equitable Coal Co., Ld.	Mongol Manjhi, (m.), 30, Coal-cutter.	Coal	In a district in which pillars were being extracted a miner passed through a fence and entered a place from which the timber had been withdrawn. Whilst getting coal there he was killed by a large mass of roof coal which fell from a height of 6 feet. Inspection and inquiry made.
13	25th February, 5-30 P.M.	Damudarpur mine, Nandi P. O., Bengal.	Bengal Coal Co., Ld.	Bohari Singh, (m.), 28, Coal-cutter.	Coal	Whilst a miner was loading coal in an underground gallery, he was struck and fatally injured by a mass of stone, 3' x 3' x 3' thick, which fell from a height of 10 feet. Inspection and inquiry made.
14	1st March, 4-30 P.M.	Burra-Golai mine, Margherita P. O., Assam.	Assam Railway and Trading Co., Ld.	Bhabani Kahar, (m.) 24 Labourer.	Coal	A tub-filler was loading coal in a heading, 5' x 5', when about one ton of roof coal fell on him inflicting fatal injuries. Inspection and inquiry made.
15	2nd March, 4-30 A.M.	Katras mine, Katrasgarh P. O. Bihar and Orissa.	Burrakur Coal Co., Ld.	Rasik Manjhi, (m.) 23, Coal-cutter.	Coal	Whilst dressing down roof coal in a gallery a miner was killed instantly by a mass of roof coal, weighing about 2½ tons, which fell from a height of 9 feet. He had been ordered not to work there and another working place had been allotted to him. Inspection and inquiry made.
16	4th March, 2 P.M.	Nadanpur mine, Ondal P. O. Bengal.	Murala debi.	Chegar Kole, (m.), 55, Coal-carrier.	Coal	Whilst a gang of miners were cutting coal from the sides of an underground gallery a mass of roof coal and shale, 20' x 16' x 4' thick fell from a height of 11 feet. Deceased, who was carrying coal at that moment, was buried by the fall; two miners escaped with slight injuries. Inspection and inquiry made.

17	23rd March, 6-15 P.M.	Jamadaha mine, Jeaigora P. O., Bihar and Orissa.	Tata Iron & Steel Co., Ld.	Ram Sing Chamar, (m.), 35; Baisaku Poenka, (m.), 30, <i>Coal-cutters</i> ; Maniar Chamar, (m.), 34, <i>Coal-carrier</i> .	Coal	Whilst three miners were at work in a gallery, parallel to and 8 feet from a dyke, a mass of roof coal, 22' x 10' x 22', fell on them from a height of 6½ feet; they were killed instantly. An unexposed slip on one side of the gallery and a strong cleavage plane on the other side caused the fall. When galleries are being driven in close proximity to faults or dykes, every precaution should be taken to keep the roof secure. Inspection and inquiry made.
18	26th March, 1-30 P.M.	Sauctoria mine, Dishegarh P. O., Bengal.	Bengal Coal Co., Ld.	Sasbi Bauri, (m.), 38, <i>Coal-cutter</i> .	Coal	Deceased went inside a fenced goaf, presumably for a natural purpose, and was killed instantly by a fall of roof coal weighing about ½ ton. Inspection and inquiry made.
19	27th March, 3-15 P.M.	Loyabad mine, Bansjora P. O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Sukhu Singh, (m.), 30, <i>Coal-cutter</i> .	Coal	Whilst a miner was drilling a shot hole in the coal floor of a gallery, 12 feet wide, a mass of roof stone, 6' x 4' x 0'-6", fell on him from a height of 9 feet; he was killed instantly. A concealed "slip" in the roof caused the fall. Inspection and inquiry made.
20	31st March, 6-30 A.M.	Ramnagar mine, Kulti P. O., Bengal.	Bengal Iron Co., Ld.	Bhusan Bauri, (m.), 35, <i>Coal-cutter</i> .	Coal	A miner was cutting coal from the side of a pillar when a mass of coal, 7' x 2' 6" x 2' 6", fell from a height of 7 feet, from between two concealed "slips." He was killed instantly. Inspection and inquiry made.
21	3rd April, 6-30 P.M.	Kankaneo mine, Bansjora P. O., Bihar and Orissa.	Eastern Coal Co., Ld.	Goguli Kolline, (f), 25, <i>Labourer</i> .	Coal	Whilst a woman was filling a basket with coal in a gallery, 12 feet high, a mass of coal, 8' x 6' x 3' 6", fell upon her from a concealed "slip" in the roof. She was killed instantly. Inspection and inquiry made.
22	4th April, 12-30 A.M.	Kustore mine, Kusunda P. O., Bihar and Orissa.	Rauegunge Coal Association, Ld.	Saik Miagan, (m.), 30, <i>Coal-carrier</i> .	Coal	Deceased was loading coal under some roof coal which had recently been blasted when a piece of coal, 2' x 2' x 2', fell on him from a height of 10 feet. He sustained fatal injuries and died three hours later. If he had obeyed orders and waited until this coal was dressed down, the accident would not have occurred. Inspection and inquiry made.
23	14th April 2-5 P.M.	Sripore mine, Kalipahari P. O., Bengal.	Lodna Colliery Co., (1920), Ld.	Darhari Moah, (m.), 55, <i>Coal-carrier</i> .	Coal	Whilst working in a dopillaring area a loader was instantly killed by a mass of stone weighing about 2 cwt. which fell from a height of 16 feet. Inspection and inquiry made.
24	21st April, 5-30 A.M.	Knardih mine, Kalipahari P. O., Bengal.	Knardih Coal Co., Ld.	Suklal Bhakta, (m.), 41, <i>Coal-cutter</i> .	Coal	Whilst lying asleep in an underground gallery which had been fenced to prevent access deceased was killed by a mass of roof stone which fell between two "slips" from a height of 11 feet. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1928—contd.

Serial Number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—contd.						
<i>(a) Falls of roof—(84 deaths)—contd.</i>						
25	24th April, 4 P.M.	Gaslitan mine, Sijua P. O., Bihar and Orissa.	New Manbhoom Coal Co., Ltd.	Iakhia Korani, (f), 20, Coal-carrier.	Coal	A coal-carrier was starting to carry away a basket of coal from a place where a mass of coal 8' x 6' x 2', was being taken down from the roof of a gallery, 7 feet high, when the coal suddenly fell. She was struck and killed instantly by a large lump of coal, 4' x 3' x 2', which rolled a distance of 6 feet. Inspection and inquiry made.
26	25th April, 1-30 A.M.	Seebpore mine, Charanpur P. O., Bengal.	Katras Jherriah Coal Co., Ltd.	Badni Mojlian, (f), 20, Labourer.	Coal	Whilst four women were loading coal underground a mass of roof stone, 18' x 4' x 4', fell from a height of 16 feet. One of them was killed and the others were injured. Had the subordinate staff carried out their duties of supervision properly, this accident would not have occurred. Inspection and inquiry made.
27	25th April, 9-30 A.M.	Bhowra mine, Jealgora P. O., Bihar and Orissa.	Eastern Coal Co., Ltd.	Basdeo Kahar, (m), 32, Machineman.	Coal	Whilst a machineman was taking down the haulage post of a coal cutting machine which had been set into the broken coal on the face of a fault, he was struck on the head and fatally injured by a mass of coal, 2' 6" x 1' 6" x 1' 3", which fell off the fault face from a height of 9 feet. If he had set the haulage post in normal ground the accident would have been avoided. Inspection and inquiry made.
28	1st May, 10 A.M.	Lodna mine, Jharua P. O., Bihar and Orissa.	Lodna Colliery Co., (1920), Ltd.	Degan Bhuiya, (m.), 38, Timberman.	Coal	A timberman was withdrawing props from a depillared area in a seam 7½ feet thick. After knocking out a prop with a hammer he slipped and was caught by a mass of stone, 7' x 2' x 2', which fell from the roof. He was severely injured and died two hours afterwards. The accident would have been avoided if a safety prop-withdrawing appliance had been used. Inspection and inquiry made.

29	3rd May, 6-45 A.M.	Bhuggndih mine, Jharra P. O., Bihar and Orissa.	Bengal Nagpur Coal Co., Ltd.	Hakim Manjhi, (m.), 20, Coal-carrier.	Coal	Whilst a stook of coal was being extracted on the edge of a goaf the roof suddenly came "on weight", causing part of the stook to collapse and mass of roof coal, 6' x 4' x 2', to fall from a height of 9 feet. Two miners who were loading coal near the stook were caught before they could reach a place of safety: one was killed instantly and the other was severely injured. Inspection and inquiry made.
30	7th May, 6-30 P.M.	Toposi mine, Toposi P. O., Bengal.	Banera Coal Co., Ltd.	Keshi Baurin, (f.), 18, Sarola Baurin, (f.), 15, Labourers.	Coal	Whilst loading coal from a machine cut gallery two women were struck and fatally injured by a mass of roof stone, 11' x 7' x 3' thick, which fell from a height of 7 feet. Inspection and inquiry made.
31	10th May, 11-30 P.M.	Jainti Central mine, Karmatar P. O., Bihar and Orissa.	Jainty Central Colliery, Ltd.	Juman Meah, (m.), 28, Coal-cutter.	Coal	Contrary to orders a coal miner went to cut roof coal in a gallery which was fenced because the roof was unsafe. He removed a prop and a piece of roof stone, 2' 3" x 1' 6" x 7", falling from a height of about 4 feet, struck him on the back. He died within a few days. Inspection and inquiry made.
32	11th May, 0-15 P.M.	Kankaneo mine, Bansjora P. O., Bihar and Orissa.	Eastern Coal Co., Ltd.	Etwari Chamar, (m.), 25, Coal-cutter.	Coal	Deceased left his appointed working place, passed through a fence, and was rubbing coal from the corner of a pillar, when a mass of roof stone, 12' x 5' x 9', fell on him from a height of 11 feet. He was killed instantly. Inspection and inquiry made.
33	15th May, 2-15 P.M.	Loyabad mine, Bansjora P. O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Aunbo Meah, (m.), 32, Coal-cutter.	Coal	Whilst a miner was dressing the side of a gallery, 5 feet wide and 4½ feet high, a mass of coal, 5' x 4' x 9' fell from the roof and he sustained severe injuries from which he died fifteen hours later. Two concealed "slips" in the roof coal transverse to the line of the gallery and a "slip" parallel to the gallery which he exposed by dressing the side were the cause of the fall. Inspection and inquiry made.
34	18th May, 6-30 P.M.	Amlabad mine, Jalgora P. O., Bihar and Orissa.	Eastern Coal Co., Ld.	Jahal Gope, (m.), 32, Coal-cutter.	Coal	Whilst a miner was robbing coal from the corner of a pillar, he was killed instantly by a mass of coal, 4' x 2' 8" x 2' which fell from a height of 7 feet off the face of a small fault in the roof. Inspection and inquiry made.
35	21st May, 8-30 A.M.	Palaethali mine, Charanpur P. O., Bihar and Orissa.	B. M. Ganeriwala & Co.	Bagal Bauri, (m.), 35, Coal-cutter.	Coal	A miner went into a fenced gallery and was fatally injured by roof stone, 2' x 3' x 4', which fell from a height of 16 feet. He should not have gone through a fence into a dangerous place. Inspection and inquiry made.
36	23rd May, 9 A.M. †	Barmoudia mine, Sitaranpur P. O., Bengal.	New Beerbhoom Coal Co., Ld.	Fagu Manjhi, (m.), 35; Ratan Manjhi, (m.), 30, Coal-cutters.	Coal	The roof of a goaf suddenly came "on weight", and a mass of stone, 15" thick, fell from a height of 5 feet. The fall extended over an adjoining gallery, 30 feet in length and 12 feet in width, where two miners were at work. They were killed instantly. A coal-carrier escaped with slight injuries. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1928—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—contd.						
(a) Falls of roof—(84 deaths)—contd.						
37	30th May, 1-30 P. M.	Sripur mine, Kalipahari P. O., Bengal.	Lodna Colliery Co. (1920), Ltd.	Dhanu Meah, (m.) 40, <i>Labourer.</i>	Coal	In a district where pillars of coal were being extracted three persons were loading coal when the roof in the goafed area "bumped" and caused a piece of roof coal, 1' x 1'-6" x 3', to fall from a height of 12 feet. One of them was struck on the head and killed instantly. Inspection and inquiry made.
38	30th May, 6-15 P.M.	Bhalgora mine, Jharia P. O., Bihar and Orissa.	Bhalgora Coal Co., Ltd.	Hemlal Bari, (m.) 25, <i>Carpenter.</i>	Coal	After setting a prop in a gallery, 16 feet high, a timberman walked under a small area of bad roof. He was struck by a piece of stone weighing about 5 lb. which fell from the roof, and sustained injuries which caused death about a month later. Inspection and inquiry made.
39	2nd June, 4-30 A.M.	Bhutgoria mine, Jeaigora P. O., Bihar and Orissa.	Aldih Coal Co., Ltd.	Guhi Mahato, (m.), 22, <i>Line-mistry.</i>	Coal	In a seam 8'-3" thick, the upper portion consisting of inferior coal, 18" thick, was left unworked and was supported by timber. Shortly after the withdrawal of timber from a depillared area the roof coal collapsed and caused a mass of roof coal, 30' x 13' x 1'-6", to fall in an adjacent loading level, although twenty props had been left under it for support. Deceased was removing a tramline in the loading level 30 feet from the goaf, when he was caught by the falling roof coal and killed instantly. Inspection and inquiry made.
40	26th June, 5-30 P.M.	South Bulliari mine, Kusunda P. O., Bihar and Orissa.	East Indian Coal Co., Ltd.	Gouri Prosad Lal, (m.), 40, <i>Overman</i> ; Chhotu Barhi, (m.), 30, <i>Timberman.</i>	Coal	Whilst the last prop was being withdrawn from a depillared area in a seam 5'-3" thick a mass of roof stone, 8' x 4' x 1'-3", fell without giving any warning. An overman who was supervising the work and a timberman were killed instantly. If a safety prop-withdrawer had been used, the accident would have been avoided. Inspection and inquiry made.

41	6th July, 3-15 P.M.	Kendwadih mine, Nawagarh P. O., Bihar and Orissa.	Kendwadih Co.	Coal	Badri Prasad Singh, (m.), 26, <i>Overman.</i>	Coal	Whilst an overman was testing the roof of a gallery, 20 feet high, one hour after a shot had been fired in the side of a pillar, a piece of stone, 3' x 2' x 7', fell from the roof on to him, and he was fatally injured. If he had exercised greater care in sounding the roof, the accident would have been avoided. Inspection and inquiry made.
42	16th July, 1-45 P.M.	Serampur mine, Girdih P. O., Bihar and Orissa.	East Indian Rail- way.		Badri Dasadh, (m.), 30, <i>Coal-cutter.</i>	Coal	Four miners were working on the upper bench in a seam 22 feet thick. They had left the roof coal unsupported and a mass, 11' x 3' x 1' thick, fell from a height of 4 feet, killing one and seriously injuring another of them. The two others received trifling injuries. Had proper supervision been exercised the accident could have been avoided. Inspection and inquiry made.
43	10th July, 6-45 P.M.	Bawdwin mine, Namtu P. O., Burma.	Burma Corporation Ld.		Udabe Chand, (m.), 33, <i>Miner.</i>	Lead Silver.	In an area previously affected by fire but in which stopping had been resumed, a cross-cut ventilated by compressed air was being advanced beyond the lode into the hanging wall. A post supporting the roof 20 feet from the face suddenly sank 2 feet into the floor and soft ground ran into the cross-cut completely filling 10—15 feet of it and entombing two miners who were working at the face. They were rescued after two and a quarter hours. One man died from heat stroke and shock sixteen hours later. Inspection and inquiry made.
44	23rd July, 10-30 A.M.	Loyabad mine, Bansjora P. O., Bihar and Orissa.	Barrakur Coal Co., Ld.		Gafur Meah, (m.), 23, <i>Carpenter's labourer.</i>	Coal	Decoased was struck and killed instantly by a piece of stone, 8' x 2' 6" x 8", which fell from the roof of a gallery, 26 feet high. Inspection and inquiry made.
45	2nd August, 3-30 P.M.	Bansdeopur mine, Kumunda P. O., Bihar and Orissa.	Bansdeopur Coal Co., Ld.		Jharu Chamar, (m.), 29, Mouboadh Chamar, (m.), 50, <i>Coal-cutters.</i>	Coal	In an area of workings in a seam 24 feet thick from which pillars were being extracted two miners were sitting in a working gallery, 16 feet wide and 8 feet high, when a mass of coal 30' x 16' x 8' fell without warning from unexposed "slips" in the roof, and they were killed instantly. Two other miners were caught by the edge of the falling coal and seriously injured. The gallery had been driven parallel to and a few feet away from a dyke and the "slips" in the coal also ran parallel to the dyke. When galleries are being driven adjacent and parallel to faults or dykes, safety timber should always be set whether it appears necessary or not. Inspection and inquiry made.
46	20th August,	Sripur mine, Kalipahari P. O., Bongal.	Lodna Colliery Co., (1920) Ld.		Sukhu Manjhi, (m.), 32, <i>Coal-cutter.</i>	Coal	A miner was cutting floor coal in a gallery, when about 1 cwt. of roof coal fell on him from a height of 8 feet. He sustained injuries which proved fatal. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1928—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—contd.						
(a) Falls of roof—(84 deaths)—contd.						
47	4th September, 7 A.M.	Barra Dhemio mine, Sitarampur P. O., Bengal.	Barra Dhemio Coal Co., Ltd.	Santoki Rai, (m.), 30, Coal-cutter.	Coal	Whilst engaged in levering down a mass of roof coal in a gallery a miner lost his balance, and, falling under the falling coal, was killed instantly. Inspection and inquiry made.
48	6th September, 4-30 A.M.	Bhutgoria mine, Jealgora P. O., Bihar and Orissa.	Aldih Coal Co., Ltd.	Khani Baurin, (f.), 35, Coal-carrier-	Coal	Whilst a pillar of coal was being extracted in a seam, 6'-3" thick, a coal carrier was struck and fatally injured by a mass of inferior coal, 4' x 1' 6" x 1' 6", which fell from between two concealed "slips" in the roof. She died a few minutes afterwards. Inspection and inquiry made.
49	13th September, 11 P.M.	Ledo Valley mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ltd.	Murad Makrani, (m.), 40, Sirdar.	Coal	A sirdar was passing through a siding on a haulageroad when he was partially buried by a mass of coal, weighing 1½ tons, which fell from a "slip" in the roof—a height of 5 feet. He died from suffocation. Inspection and inquiry made.
50	14th September, 2-30 A.M.	New Sinidih mine, Katrasgarh P. O., Bihar and Orissa.	New Sinidih Coal Co., Ltd.	Sona Bauri, (m.), 25, Coal-cutter.	Coal	Whilst a miner was at work in a gallery, 7' 6" wide and 4'-6" high, a mass of stone, 21' x 7' 6" x 8", fell from the roof and killed him instantly. Inspection and inquiry made.
51	20th September, 4-30 A.M.	Neamatpur mine, Sundarchak P. O., Bengal.	Equitable Coal Co., Ltd.	Barki Mejhinu, (f.), 22, Coal-carrier.	Coal	Whilst a woman was loading blasted coal she was fatally injured by a piece of coal, 3' x 1' x 1', which fell upon her from a height of 14 feet. Had the overhanging coal been properly dressed down this accident would not have occurred. Inspection and inquiry made.
52	20th September, 3 P.M.	Bansdeopur mine, Kusunda P. O., Bihar and Orissa.	Bansdeopur Coal Co., Ltd.	Gulab Rai, (m.), 36, Coal-cutter.	Coal	In a gallery 22 feet in height a miner, using an iron-shod pole, was, under directions, knocking down some loose overhanging roof coal from the corner of a pillar when a mass of coal, 13' x 22' x 5', fell upon him unexpectedly and killed him instantly. Inspection and inquiry made.

53	21st September, 9 A.M.	Loyabad mine, Bansjora P. O. Bihar and Orissa.	Burrakur Coal Co., Ld.	Jagai Kori, (m.), 35, Trammer.	Coal	Whilst a trolleyman was standing in a working gallery, a mass of coal, 14' x 6' x 2', fell from a concealed 'slip' in the roof, at a height of 12 feet. He was killed instantly. Inspection and inquiry made.
54	27th September, 8-30 A.M.	Sendra mine, Bansjora P. O., Bihar and Orissa.	Sendra Coal Co., Ld.	Mnkunda Turi, (m.), 49, Coal-cutter.	Coal	Whilst a miner was cutting coal from the roof of a gallery, 7'-3" high a mass of coal, 7' x 2'-6" x 2'-6", fell unexpectedly and struck him before he could get clear. He was severely injured and died four hours later. Inspection and inquiry made.
55	7th October, about 5 A.M.	Sendra-Bansjora mine, Bansjora P. O., Bihar and Orissa.	Sendra-Bansjora Colliery Syndicate.	Mongal Singh, (m.), 45, Pump attendant.	Coal	Whilst tending a pump in an underground gallery a pump-attendant was struck by a piece of coal, weighing about 4 lb. which fell from the roof, 20 feet above. He sustained serious injuries and died within an hour. Inspection and inquiry made.
56	10th October, 1-30 A.M.	Jogta mine, Sijua P. O., Bihar and Orissa.	Agabog Bros.	Lachan Bhakta, (m.), 35, Coal-cutter.	Coal	A miner went under dangerous roof coal to load a basket when a mass of roof coal, 4' x 3' x 2', fell from a height of 7 feet and he was killed instantly. He was warned that the roof coal was unsafe when he was set to work. Inspection and inquiry made.
57	11th October, 1-30 P.M.	Bhajibani mine, Parasia P.O., Central Provinces.	Amalgamated Coal- fields, Ld.	Sadashoo Teli, (m.), 35, Coal-cutter.	Coal	In a part of a mine where pillars of coal were being extracted two miners left their working place and were ripping down roof coal near a goaf which was "under weight" when a mass of roof coal and stone, 10' x 3' 8" x 1', fell on them from a height of 7 feet. Deceased received fatal injuries and died shortly afterwards; the other miner was seriously injured. Inspection and inquiry made.
58	14th October, 9-45 A.M.	Sitalpur mine, Dishergarh P.O., Bengal.	Bengal Coal Co., Ld.	Baburam Manjhi, (m.), 25, Trammer.	Coal	Whilst a train of tubs was being hauled out from a loading station near a pillar under extraction a mass of roof, 30' x 10' x 2', fell from a height of 14 feet. One of the trammers received injuries from which he died shortly after. Inspection and inquiry made.
59	26th October, 1 A.M.	Mundulpur mine, Nandi P.O., Bengal.	Mundulpur Coal Co., Ld.	Kalauder Kora, (f.), 32, Loader.	Coal	Whilst loading coal in a working place underground deceased was killed by a mass of roof stone, 9' x 1'-4" x 1', which fell from a height of five feet. Inspection and inquiry made.
60	30th October, 5 A.M.	Sripur mine, Kalipahari P.O., Bengal.	Lodna Colliery Co. (1920), Ld.	Pekhan Hazam, (m.), 32; Mohar Meah, (m.), 30; Janki Meah, (m.), 34; Kuli Meah, (f.), 30; Loaders.	Coal	Pillars of coal were being extracted in a seam 15' 6" thick, and a number of persons were engaged in loading fallen roof coal in a working place 12 feet high, when a mass of roof coal, 3'-8" thick, fell over an area 45 feet long and 15 feet wide. Four of the loaders were killed and one was seriously injured. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1928—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 mine or worked.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—contd.						
(a) Falls of roof—(84 deaths)—concltd.						
61	8th November, 3-30 P.M.	Jbaria Kh. mine, Jharin P.O., Bihar and Orissa.	Standard Coal Co., Ld.	Subia Chamarin, (f.), 20, Coal-carrier	Coal	Whilst two women and a man were loading blasted roof coal in a gallery a mass of coal, 5' x 4' x 1'-6" fell from a height of 20 feet. One of the women was killed instantly and the other was seriously injured. Inspection and inquiry made.
62	10th November, 4-30 A.M.	Charanpur mine, Charanpur P.O., Bengal.	Apcar Collieries Ld.	Ramdeo Badhai, (m.), 24, Coal-cutters	Coal	Whilst a miner was engaged in taking down roof coal in a gallery, a mass of roof stone, 4' x 2' x 1'-6", fell on him from a height of 18 feet killing him instantly. Although not authorised to conduct blasting operations he had fired a shot in the roof coal, and the concussion had knocked out props supporting the roof. Inspection and inquiry made.
63	14th November, 4-35 P.M.	Nandang mine, Murgherita P.O., Assam.	Assam Railways and Trading Co., Ld.	Laloo Ahir, (m.) 20, Labourer.	Coal	Two miners were shovelling coal from an "opening" or chamber when the sirdar present heard the roof "weighting". He ordered the men to leave the "opening", but while they were doing so one of them was struck and fatally injured by a piece of coal, 1'-4" x 1' x 8", which fell from a height of 10 feet. Inspection and inquiry made.
64	15th November, 4 A.M.	Amlabad mine, Jealgora P.O., Bihar and Orissa.	Eastern Coal Co., Ld.	Sugia Kol, (f.), 24, Coal-carrier.	Coal	Whilst a gang of miners was cutting roof coal in a gallery a mass of coal, 10' x 10' x 1' fell from a hidden "slip" at a height of 11 feet. Deceased who was passing underneath at the time was crushed to death. Inspection and inquiry made.
65	29th November, 11-30 A.M.	Sripur mine, Kali-paburi P. O., Bengal.	Lodna Colliery Co., (1920), Ltd.	Ram Golam Kuiri, (m.), 39, Coal-cutter, Bhupat Ram Bania, (m.), 35, Labourer.	Coal	Whilst a gang of miners was engaged in extracting a pillar of coal in a seam 16 feet thick a large fall of roof occurred at the edge of the goaf. A number of props set in front of the face were dislodged and in falling they struck and killed two of the men. Inspection and inquiry made.

66	30th November, 2 A.M.	Wagon Mine, Tavoy P. O., Burma.	Consolidated Tin Mines of Burma, Ltd.	Chow Pat, (m.), 60, <i>Miner.</i>	Tin and wolfram	Whilst a miner was working at the face of an adit, 7 feet high, a mass of soft schist weighing about 30 lb. fell out of the roof and struck him on the back causing injuries from which he died two days later. If the roof had been tested at frequent intervals during the working shift the accident would have been avoided. Inspection and inquiry made.
67	30th November, 5-30 P.M.	Benahir mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ltd.	Bholi Show, (m.) 38, <i>Labourer.</i>	Coal	Whilst workmen were erecting a prop in a gallery, 28 feet high, a piece of coal, 1'-8" x 1'-3" x 1', was dislodged from the roof and struck one of them on the back, causing a spinal injury from which he subsequently died. Inspection and inquiry made.
68	4th December, 2-45 A.M.	Bawdin mine, Namtu P. O., Burma.	Burma Corporation, Ltd.	Sai Foo Yiu, (m.) 31, <i>Miner.</i>	Lead Silver.	A miner was about to secure spiling which he had driven over the cap of a square setting, 4'-6" high and 5'-6" wide, when a mass of ore weighing about one ton fell on to the protruding ends and his head was crushed between the rear end of the spiling and the roof. He was killed instantly. Inspection and inquiry made.
69	6th December, 11-30 P.M.	Kargali mine, Bokaro P. O., Bihar and Orissa.	Great Indian Peninsula Rail- way.	Jiban Manjhi, (m.) 30; Singrai Manjhi, (m.) 35; <i>Coal-Cutters.</i>	Coal	Two miners employed in dressing down roof coal in an underground gallery, 5 feet high and 10 feet wide, were killed by an unexpected fall of coal, 18' thick, 10' long and 5' wide. Inspection and inquiry made.
70	17th December, 1 P.M.	Serampur mine, Giridih P. O., Bihar and Orissa.	East Indian Rail- way.	Gunpat Sing, (m.) 27, <i>Coal-cutter.</i>	Coal	A gang of miners was engaged in removing loose coal from the floor of a gallery preparatory to setting up a cog when a 'bump' occurred and a portion of roof coal fell on them. Three men were seriously injured and one of them died shortly after. Inspection and inquiry made.
71	30th December, 4 A.M.	Chota Bheмо mine, Sitarampur P. O., Bengal.	Bengal Coal Co., Ltd.	Harihar Sing, (m.) 35, <i>Coal-cutter.</i>	Coal	A miner passed through two fences and was robbing coal from the side of a small pillar at the edge of the goaf, when he was killed by a slab of stone, 6' x 3'-6" x 7", which fell from the roof. Inspection and inquiry made.
72	31st December, about 12 noon	Bhazaband mine, Jharia P. O., Bihar and Orissa.	Borra Coal Co., Ltd.	Shahebal Meah, (m.) 24, <i>Labourer.</i>	Coal	A labourer engaged in removing debris from the floor of a gallery, preparatory to setting a prop, was struck by a mass of roof stone, 5' x 3' x 7", which fell from a height of 6 feet. He sustained serious injuries and died eleven hours later. Inspection and inquiry made.

APPENDIX II—contd.
Fatal Accidents during the year 1928—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—contd.						
(b) Falls of sides—(58 deaths).						
73	23rd January, 1 P. M.	Manegaon mine, Bhar eli P. O., Central Provinces.	B. P. Byramji & Co.	Fagu Gond, (m.), 50, Miner.	Manga- nese.	Deceased was employed in digging out "boulder" ore from an open excavation, 10 feet deep. Some 30 cubic feet of ground fell away from the side of the excavation, and he was buried and suffocated. It was presumed that he had been undercutting the side of the excavation. Inspection and inquiry made.
74	24th January, 2-30 P. M.	Benabir mine, Jharlia P. O., Bihar and Orissa.	Standard Coal Co., Ld.	Sagar Dosadh, (m.), 22, Coal-cutter.	Coal	Deceased was killed by a mass of several tons of coal falling on him from the side of a pillar of coal, 28 feet in height. Inspection and inquiry made.
75	26th January, 11 A. M.	Mugma mine, Mugma P. O., Bihar and Orissa.	Burn & Co., Ld.	Thanku Roy, (m.), 23, Jungle Roy, (m.), 16.	Fireclay	Whilst two persons were working in a quarry, 21 feet deep, they were buried and suffocated by a mass of earth, 6' x 3' x 2', which fell from the side. Had the sides of the quarry been properly sloped or stepped this accident would not have occurred. Inspection and inquiry made.
76	26th January, 11-45 A. M.	Lodna mine, Baria P. O., Bihar and Orissa.	Lodna Colliery Co. (1920), Ld.	Nesoda Baurin, (f.), 33, Coal-carrier.	Coal	Whilst a party of miners was at work extracting a pillar of coal in a seam 23 feet thick, about 600 tons of coal fell from slips in the side of an adjacent fenced off gallery. In the confusion that followed, deceased ran into the fenced off gallery and was killed instantly by the falling coal. Inspection and inquiry made.
77	6th February, 5-30 P. M.	Chambal mine, Gharibwal P. O., Punjab.	P. W. Dept. (Irrigation Branch) Government of the Punjab.	Jumma son of Raju, (m.), 20, Miner.	Limestone	A miner engaged in digging out boulders of limestone on the side of a hill attempted to dislodge a boulder weighing about half a ton. The boulder rolled over and he was crushed beneath it and killed. Inspection and inquiry made.
78	7th February, 9-30 A. M.	Gua mine, Gua P. O., Bihar and Orissa.	Indian Iron & Steel Co., Ld.	Mukta Ho., (f.), 22, Labourer.	Iron ore	Whilst a woman was loading a basket with earth at the foot of a quarry face sloping at 45° a mass of earth weighing about 6 cwt. fell off a vertical face 4 feet high and 7½ feet above the foot of the slope. The earth rolled down the slope and fell upon her causing severe injuries from which she died ten minutes later. Inspection and inquiry made.

79	9th February, 11 P. M.	Bhutgoria mine, Jalgora P. O., Bihar and Orissa.	Aldih Coal Co., Ld.	Latu Roy, (m.), 35, Coal-cutter.	Coal	It was presumed that deceased had been lying down in a gallery when a mass of stone, 3' x 1'6" x 1', fell upon him from the side at a height of 7 feet. He was killed on the spot. Inspection and inquiry made.
80	11th February, 10 A. M.	Murwara mine, Katni P. O., Central Provinces.	Cowasji Bejoui Bajan.	Mangal Kore, (m.), 35, Miner.	Limestone	In an open quarry a number of persons were removing earth from the foot of a bench, 5 feet high, when a mass of stone and earth, 11' x 3' x 1'6", fell from the edge of the bench and struck one of them. His injuries caused death within three days. Inspection and inquiry made.
81	3rd March, 2-30 P.M.	Bhalgora mine, Jharua P. O., Bihar and Orissa.	Bhalgora Coal Co., Ld.	Sakar Sonar, (m.), 33, Trolleyman.	Coal	Deceased was struck by a mass of coal, weighing about 20 tons, which fell from a "slip" in the side of a pillar 22 feet in height. He sustained injuries to which he succumbed three hours later. Inspection and inquiry made.
82	10th March, 2-30 P.M.	South Bulliari mine, Kusunda P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Bhagia Ghatwari, (f.), 35, Coal-carrier.	Coal	A woman entered a fenced gallery, when a mass of coal, weighing about 2 tons, fell upon her. She died a month later. Inspection and inquiry made.
83	11th March, 11 A.M.	Munzar mine, Munzar P. O., Central Provinces.	Central India Mining Co., Ld.	Umedi Pinjari, (f.), 24, Mine Raja.	Manga- nese.	Whilst a number of persons were at work at the bottom of a quarry, 36 feet deep, some 20 cubic feet of rock fell from the upper edge of the quarry. Most of the falling stone was held by a bench, 18 feet wide, but one piece measuring about a cubic foot rolled over the bench and struck a woman, killing her immediately. Inspection and inquiry made.
84	15th March, 9-30 P.M.	Serampur mine, Giridih P. O., Bihar and Orissa.	East Indian Rail- way.	Nankin Ghatwari, (f.), 40, Coal-Carrier; Mnasu Meah, (m.), 40, Karmu Meah, (m.), 25, Coal-cutters.	Coal	Whilst three coal-cutters and a female carrier were loading coal in a depillaring area the weight of the unsupported roof in the "goaf" caused a large mass of coal, weighing about 5 to 6 tons, to burst from the side of a pillar, and fall to the ground from a height of 15 feet. This mass of coal fell on the three deceased, and they were killed instantly. The other man escaped unhurt. Inspection and inquiry made.
85	18th March, 8-30 A. M.	Thabawloik mine, Mergui P. O., Burma.	Anglo-Burma Tin Co., Ld.	Kassey Ouria, (m.), 20, Labourer.	Tin	A mass of laterised earth and boulder wash 20' x 12' x 4', fell from the side of an alluvial tin working, 12 feet deep, and a miner who was at work 20 feet away was struck and killed instantly by the falling ground. The fall was anticipated and if the manager's instructions had been carried out the accident would have been avoided. Inspection and inquiry made.
86	29th March, 1-30 P.M.	West Gopnlichuck mine, Kusunda P. O., Bihar and Orissa.	Gopalichuck Coal Co., Ld.	Chirantini Bilas- purin, (f.), 23, Labourer.	Coal	Whilst loading coal in an underground working place a woman was struck on the back and leg by a piece of stone band, 1' x 10" x 6", which fell from a height of 6 feet. She was seriously injured and died four days later. Inspection and inquiry made.

APPENDIX II—*contd.*

Fatal Accidents during the year 1928—*contd.*

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—<i>contd.</i>						
(b) Falls of sides—(58 deaths)—<i>contd.</i>						
87	30th March, 5 P.M.	Lodna mine, Jharia P. O., Bihar and Orissa.	Lodna Colliery Co., (1920) Ld.	Sukhi Mejhian, (f.), 48, Coal-carrier.	Coal	Whilst a woman was travelling on a haulage incline, a mass of coal weighing about 20 tons, fell from the side of a pillar, and a lump of coal, weighing about 2 cwt., rolled on to her legs. She died from her injuries seven and half hours later. A separate travelling road was provided, and she had been warned not to travel on the haulage road. Inspection and inquiry made.
88	4th April, 7 A.M.	New Khas Jharia mine, Jharia P. O., Bihar and Orissa.	Prabhash Manu- facturing Co., Ld.	Prithi Pal, (m.), 30, Coal-cutter.	Coal	In a gallery 34 feet in height a miner was sitting near the corner of a pillar, when a wedge-shaped piece of coal, 18" x 12" x 15", falling from a height of 28 feet, struck him on the head and inflicted fatal injuries. Inspection and inquiry made.
89	7th April, 10 P.M.	Karikol mine, Tisri P. O., Bihar and Orissa.	J. S. Mull & Co.	Budhan Manjhi, (m.), 16, Arjun Manjhi, (m.), 18, Labourers.	Mica	In an open excavation two labourers were removing debris at the foot of a face, 21 feet high, when a fall of side, 9' x 9' x 3' thick, occurred, burying them and causing death by suffocation. Inspection and inquiry made.
90	26th April, 6 A.M.	Lodna mine, Jharia P. O., Bihar and Orissa.	Lodna Colliery Co. (1920), Ld.	Goya Korain, (f.), 42, Coal-carrier.	Coal	Whilst a coal-loader was filling a basket with coal in a gallery, 11 feet wide and 22 feet high, she was killed by a mass of coal, 14' x 6' x 18", which fell from the side of a pillar. Her husband and son had undercut the side of the pillar and had caused the fall. The husband was severely injured. Inspection and inquiry made.
91	30th April, 12-30 P.M.	Ghowrassie mine, Dishergarh P. O., Bihar and Orissa.	Equitable Coal Co., Ld.	Sura Kora, (m.), 23, Hookman.	Coal	A hookman was riding on a set of loaded tubs which was being drawn up an incline. At the moment that the set was passing, a wedge-shaped mass of stone 2' 6" x 3' x 10' fell from the side of the haulage road from a height of 7 feet striking him and causing injuries which proved fatal. Inspection and inquiry made.

92	9th June, 11 A.M.	Sitalpur mine, Dishergarh P. O., Bengal.	Bengal Coal Co. Ld.	Pratab Banri, (m.), 50, Coal-cutter.	Coal	Whilst a number of persons were extracting a "stook" of coal it collapsed. A miner was killed instantly. As there were indications that the "stook" was "on weight" the overman should not have allowed miners to work there. Inspection and inquiry made.
93	11th June, 12 noon.	Mokpalin mine, Mokpalin P. O., Burma.	Government of Burma, P. W. Department.	Sauk Rai, (m.), 30, Quarry-man.	Stone	Whilst a gang of quarrymen was at work on the top of a stone quarry face 45 feet high, a mass of earth, 30' x 30' x 15', slipped from the face of the overburden, which was 30 feet in their rear, and four of them were swept over the edge and fell with the earth to the bottom of the quarry. One man was killed and three others were seriously injured. Although heavy rain caused the earth to slip the accident would have been avoided if the face of the overburden had been sloped at 45 degrees instead of 60 degrees. Inspection and inquiry made.
94	11th June, 12 noon.	Sitapur mine, Sausar P. O., Central Provinces.	Indian Manganese Co., Ld.	Santi Goudin, (f.), 16, Labourer.	Manga- nese.	While at work in an open excavation a woman was killed by a mass of earth, weighing about 7 cwt. which fell upon her from the side. Inspection and inquiry made.
95	19th June, 9-30 A.M.	Jamadoba mine, Jadgora P. O., Bihar and Orissa.	Tata Iron & Steel Co., Ld.	Ram Kumari Bilaspurin, (f.), 24, Loader.	Coal	Whilst a miner was dressing the side of a level gallery, 12 feet high, he pulled a slab of coal, 6' x 8' x 9', off the side and in falling it struck two props and was broken into pieces. A coal-loader who was sitting down 12 feet behind him was struck and fatally injured by a piece of coal 12' x 12' x 9', and another loader, who was standing near holding a lamp for him, was severely injured. Inspection and inquiry made.
96	19th June, 11-30 P.M.	Lodna mine, Jharria P. O., Bihar and Orissa.	North Burrakur Coal Co., Ld.	Pati Bauri, (m.), 22, Coal-cutter	Coal	Whilst a miner was robbing coal from the dip side corner of a pillar on a haulage road, he was fatally injured by a mass of coal, 5' x 2' 6" x 2', which he had undercut. He died ten hours later. Inspection and inquiry made.
97	22nd June, 10 A.M.	Damagurria mine, Kulti P. O., Bengal.	Damagurria Coal Co., Ld.	Jalim Muchi, (m.), 38, Coal-cutter.	Coal	Whilst a coal-cutter was cutting coal from a bench in a quarry, a piece of coal, 3' x 2' x 1', fell from the side at a height of 12 feet. He was struck on the head and died seventeen hours later. Inspection and inquiry made.
98	23rd June, 11-15 A.M.	Damodarpore mine, Nandi P. O., Bengal.	Bengal Coal Co., Ld.	Mittoo Chamar, (m.), 48, Coal-cutter.	Coal	A miner although instructed to cut from the end, attempted further to undercut some over hanging coal. About 2 tons of coal fell from a height of 11 feet, inflicting on him injuries from which he died shortly after. As the place was known to be dangerous the work should have been done under the direct supervision of the subordinate staff. Inspection and inquiry made.

APPENDIX II—*contd.*

Fatal Accidents during the year 1928—*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.*

(b) Falls of sides—(58 deaths)—*contd.*

99	28th June, 11-15 A. M.	Benahir mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ld.	Jhilam Chamar, (m.), 45, Coal-cutter.	Coal	Whilst a miner was filling a basket with coal in a depillaring area, a mass of coal weighing about 7 cwt. fell off the corner of a stook from a height of 28 feet. He was struck on the head and died twenty hours later. Inspection and inquiry made.
100	10th July, 2-30 P. M.	Kandivli mine, Kandivli P. O., Bombay.	Muganath & Sons	Timawa Hanu- nappa, (f.), 35, Labourer.	Stone	Whilst deceased was lifting a loaded basket onto her head she was fatally injured by a boulder which fell from the side of a cutting 6 feet deep. Inspection and inquiry made.
101	12th July, 6-30 A. M.	Jamadoba mine, Jalgora P. O., Bihar and Orissa.	Tata Iron & Steel Co., Ld.	Brispat Dhobi, (m.), 34, Coal-cutter.	Coal	During depillaring operations in a seam, 12 feet thick, a miner caused a mass of coal, weighing about 5 tons, to fall from the corner of a stook. The falling coal dislodged four props, one of which struck deceased who was standing 13 feet away. He was killed instantly. Inspection and inquiry made.
102	12th July, 1 P. M.	Kantapahari mine, Katrasgarh P. O., Bihar and Orissa.	Angarpathra Colliery Co.	Shukri Chamarin, (f.), 15, Coal-carrier.	Coal	Deceased was passing along a working gallery, 12 feet high, when a mass of coal weighing about 2 tons fell from the side. She was struck by pieces of the coal, and killed instantly. Inspection and inquiry made.
103	13th July, 4-15 P. M.	Tirodi East and West mine, Tirodi P. O., Central Provinces.	Central Provinces Manganese Ore Co., Ld.	Jairam Gond, (m.), 30, Labourer.	Manganese.	While at work in an open excavation deceased was buried by a mass of earth, weighing about 6 tons, which fell from the side of a cutting 12 feet deep. He was suffocated. Inspection and inquiry made.
104	1st August, 6 P. M.	Kusnuda mine, Kusnuda P. O., Bihar and Orissa.	Central Bank of India.	Mahabir Bhuiya, (m.), 22, Coal-cutter.	Coal	A miner went through a fence and was engaged in robbing coal in a disused gallery when a mass of coal, weighing about 20 tons, fell upon him from the side. He was killed instantly. Inspection and inquiry made.
105	1st August, 9-15 P. M.	Charanpur mine, Charanpur P. O., Bengal.	Apcar Collieries, Ld.	Mahadeo Singh, (m.), 26, Coal-cutter.	Coal	After a shot had been fired a miner was dressing down loose coal when a mass weighing about one ton fell on him from a height of 9 feet. He was fatally injured. Inspection and inquiry made.

106	3rd August, 6-30 A. M.	Junnordeo No. 2 mine, Jamai P. O., Central Provinces.	R. S. H. Verma and Munshi Kanhai- yalal, Ld.	Bapoo Bhojar, (m.), 25, Labourer.	Coal.	A fall of side having occurred in an open cutting, 27 feet deep, a gang of workmen was engaged in clearing the debris when another portion of the side collapsed and partially buried two of them. Rescue operations were at once undertaken and one of the men was extricated. Before the other could be released, however, a further fall occurred. Deceased was completely buried and suffocated. The ground which fell measured 18' x 7' x 2'-6". Inspection and inquiry made.
107	15th August, 11-30 A. M.	Gonshadih mine, Kusunda P. O., Bihar and Orissa.	Gonshadih Coal Co.	Haru Turi, (m.), 28, Coal-cutter.	Coal.	Whilst two miners were robbing coal from the side of a pillar a mass of coal, 15' x 10' x 1'-3", fell from a concealed slip running parallel to the side. One of them was killed instantly and the other was seriously injured. Inspection and inquiry made.
108	28th August, 11-30 A. M.	Damagurria mine, Kulti P. O., Bengal.	Damagurria Coal Co., Ld.	Sohan Bhuiya, (m.), 28; Liju Bauri, (m.), 45; Kunja Bauri, (m.), 38; Earth-cutters.	Coal.	Whilst a number of persons were working on the floor of a bench, 12 feet high, in a quarry a mass of earth, 16' x 9' x 1', fell on them. Three of them were killed and two injured. Had the side been properly sloped or stopped back the accident would not have occurred. Inspection and inquiry made.
100	6th September, 9 A. M.	Bhangia Guroate mine, Rohtas P. O., Bihar and Orissa.	Sone Valley Por- tland Cement Co., Ld.	Naim Khan, (m.), 50, Stone-cutter.	Lime- stone.	Whilst engaged in loading pieces of limestone from a prohibited section of a quarry, a workman was fatally injured by a piece of stone, 1'-6" x 9" x 6", which fell from the side at a height of about 100 feet. Inspection and inquiry made.
110	7th September, 4 P. M.	Muanchon mine, Bokpyin P. O., Burma.	Ma Hpon.	Ah Kayaw, (m.), 21, Miner.	Tin.	Whilst two tin miners were at work in a sluicing drain at the foot of an almost vertical face of soft pegmatite 20 feet high, a mass of side weighing about 1½ tons fell on them from a height of 18 feet. One miner was killed instantly and the other was seriously injured. If the side had been securely stopped or sloped the accident would have been avoided. Inspection and inquiry made.
111	9th September, 5-15 P. M.	Wah mine, Wah P. O., Punjab.	Wah Stone and Lime Quarry, Ld.	Ahmad Khan, (m.), 35, Loader.	Lime- stone.	A boulder, weighing about one ton, was dislodged by quarrymen from a point, about 30 feet above the foot of a face sloping at about 40° from horizontal. In rolling down the face it took an unexpected course and struck deceased who had failed to withdraw to a sufficient distance. He sustained fatal injuries and died shortly after. Inspection and inquiry made.
112	11th September, 1-15 P. M.	Khas Jbaria mine, Jbaria P. O., Bihar and Orissa.	Khora Ramji.	Janaki Bhuiya, (m.), 50, Coal-cutter.	Coal.	Deceased was cutting coal from the side of a pillar 20 feet high when a mass of coal weighing about 2 tons fell from the side, causing serious bodily injuries. He died sixteen hours later. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1928—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—conold.						
Falls of sides—(58 deaths)—conold.						
113	12th September, 2 P.M.	Tauugpila mine, Tavoy P. O., Burma.	Qua Cheng Guan	Bhambahadur, (m.), 45; Dhanbahadur, (m.), 25, <i>Miners.</i>	Tin and wolfram.	Whilst two miners were working under the almost vertical side of a cutting 10 feet deep, which had been formed by ground sluicing, a mass of soft earth, 10' x 8' x 3', fell from the side, killing them instantly. The manager had ordered them to slope the sides. Inspection and inquiry made.
114	23rd September, 5 A.M.	Lodna mine, Jharua P. O., Bihar and Orissa.	Lodna Colliery Co. (1920) Ld.	Rabi Kora, (m.), 38, <i>Coal-cutter.</i>	Coal	Whilst a miner was dressing the side of a pillar after blasting, a mass of coal fell from the side on to the ladder on which he was standing and he was thrown to the floor from a height of 18 feet. He was killed instantly. Inspection and inquiry made.
115	16th October, 5-30 A.M.	South East Baraboni mine, Charanpur P. O., Bengal.	Maharajah of Cos- simbazar.	Ramdhani Mejhian, (f.), 50, <i>Loader.</i>	Coal	Whilst loading blasted roof coal a woman was fatally injured by a mass of coal, 3' x 1' x 1', which fell from a "slip" on the side of a pillar of coal. Inspection and inquiry made.
116	17th October, 5-15 P.M.	Mndidih mine, Sijua P. O., Bihar and Orissa.	Barrakur Coal Co., Ld.	Tipan Roy, (m.), 32, <i>Coal-carrier.</i>	Coal	Deceased left his allotted working place and went into a fenced area to load loose coal. A mass of coal, weighing 1½ tons, fell upon him from the side of a pillar. He was killed instantly. Inspection and inquiry made.
117	19th October, about 10 A.M.	Hermyingyi mine, Hermyingyi P. O., Burma.	Burma Finance and Mining Co., Ld.	Char San, (m.), 38, <i>Miner.</i>	Tin and wolfram.	A miner went into a disused open excavation, 9 feet deep, to steal tin ore and whilst he was undercutting the side—in which a lode had been exposed—a mass of earth weighing about 2 tons, fell and killed him instantly. Inspection and inquiry made.
118	6th November, 3 P.M.	Tikak mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ld.	Soonu Gore, (m.), 36, <i>Coal-cutter.</i>	Coal	Two miners were drilling shot-holes in an "opening" or chamber, 18' high, when the sirdars present heard sounds of movement, and warned them to leave the "opening". As they were doing so one of them was struck and killed instantly by a mass of coal which fell from the side. Inspection and inquiry made.

	12th November, 8-15 A. M.	Mokpalin mine, Mokpalin P. O., Barma.	Government of Burma, P. W. De- partment.	Ram Baran, (m.), 30, <i>Earth cutter.</i>	Stone	Whilst a cutting, 6' 6" wide and 12' deep, was being made for a tramline a mass of lateritic earth, 10' x 6' x 15', fell from the side and buried one of the labourers. He expired before he could be released. If the sides had been sloped at a safe angle the accident would not have occurred. Inspection and inquiry made.
120	24th November	Benahir mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ld.	Rameswar Chamar, (m.), 45, <i>Coal-cutter.</i>	Coal	Soon after blasting in a gallery 28 feet in height a miner returned to the gallery to load the blasted coal. Whilst so engaged he was struck on the head by a piece of coal which fell from the side at a height of about 14 feet. He died within two hours. Inspection and inquiry made.
121	12th December, 4-10 P. M.	Hurriladh mine, Jeaigora P. O., Bihar and Orissa.	Equitable Coal Co., Ld.	Mungar Bhuiya, (m.), 35, <i>Coal Loader.</i>	Coal	Whilst loading some robbed coal in a disguised gallery deceased was killed by a mass of coal, weighing about 2 tons, which fell from the side of a pillar. Inspection and inquiry made.
122	14th December, 12-15 P. M.	Shivrajpur mine, Shivrajpur P. O., Bombay.	Shivrajpur Syndi- cate, Ld.	Raghu Galla, (m.), 26, <i>Miner.</i>	Manga- nese.	Whilst at work in a stope he was struck and fatally injured by a slab of rock which fell from the hanging wall of the vein ten feet above him.
123	21st December, 5-30 P. M.	South Kujama mine, Jharia P. O., Bihar and Orissa.	Bagdiggi-Kujama Collieries, Ld.	Tilak Bhuiya, (m.), 32, <i>Loader.</i>	Coal	Two loaders went to load coal in a gallery where dressing of side was in progress. A portion of the side, 3' x 5' x 1'0," falling from a height of 18 feet, killed one of them instantly; the other was slightly injured. Inspection and inquiry made.

**IN SHAFTS (WHILST ASCENDING OR DESCENDING BY
MACHINERY)—1 (Death).**

124	7th May, 4-20 P. M.	Kankanee mine, Bansjora P. O., Bihar and Orissa.	Eastern Coal Co., Ld.	Ojagara Singh, (m.), 35, <i>Labourer.</i>	Coal	Deceased was standing on a scaffold in a shaft, 458 feet deep, and was being lowered by means of a hand winch installed on the surface, when the gearing of the winch came out of mesh, and allowed the scaffold to fall 418 feet to the bottom of the shaft. He was killed instantly. Inspection and inquiry made.
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IN SHAFTS (FALLING DOWN SHAFTS)—(7 Deaths.)

125	21st March, 3-30 P. M.	Serampur mine, Giridih P. O., Bihar and Orissa.	East Indian Rail- way.	Thakur Manjhi, (m.), 25, <i>Labourer.</i>	Coal	A workman was helping to remove an old pipe from a shaft when he slipped into the shaft. He fell upon a bunton fixed at a point in the shaft 60 feet from the surface and sustained injuries which caused death eleven days later. Inspection and inquiry made.
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APPENDIX II—contd.

Fatal Accidents during the year 1928—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
IN SHAFTS (FALLING DOWN SHAFTS)—(7 Deaths.)—contd.						
126	15th April, 6-35 A. M.	Jarungdih mine, Bokaro P. O., Bihar and Orissa.	Bombay, Baroda and Central India Railway and M. and S. M. Rail- way.	Somra. (m.), 36, <i>Labourer.</i>	Coal	In the course of dismantling girders at the top of a shaft, 230 feet deep, a man fell through an uncovered opening to the shaft bottom and was killed instantly. Inspection and inquiry made.
127	30th June, 12-30 P. M.	Hawdwin mine, Namtu P. O., Burma.	Burma Corporation, Ld.	Pirtan Singh, (m.), 21, <i>Fitters' helper.</i>	Lead Sil- ver.	Whilst a hoisting engine was being repaired, two planks, 8" x 2" x 6", were placed across the top of a winze, 4' x 4', to support the cage. After completing the repairs the cage was raised 2'-10" and a labourer, who went to withdraw the planks, slipped into the winze and fell to the bottom, a distance of 406 feet. He was killed instantly. Inspection and inquiry made.
128	14th July, 9 A. M.	Bawzaing mine, Heho P. O., Burma.	Shan States Silver Lead Corporation, Ld.	Maung Nyein, (m.), 20, <i>Miner.</i>	Lead Sil- ver.	At the commencement of a shift six miners were ordered to return to the surface because the air in their working place was foul. One miner disobeyed and went into other parts of the mine in search of work. He fell 70 feet down a vertical winze and was killed. Inspection and inquiry made.
129	19th July, 4-30 A.M.	Huntodih mine, Mohuda P. O., Bihar and Orissa.	Huntodih Coal Co., Ld.	Ram Dutt Gope, (m.), 45, <i>Shaft Sinker.</i>	Coal	Preparatory to descending a sinker was about to step on to the trolley covering the shaft when he slipped and fell through a narrow space between the end of the trolley and the edge of the shaft. He fell 150 feet to the bottom of the shaft and sustained injuries from which he died one and half hours later. It is probable that the trolley was pushed too far over the shaft. If a stop had been provided or a clamp placed across the trolley rails to prevent the trolley being pushed too far the accident might have been avoided. Inspection and inquiry made.

130	3rd October, 10 A.M.	Kargali mine, Bokaro P. O., Bihar and Orissa.	Great Indian Pen- insula Railway	Kartick Sing. (m.), 35, <i>Labourer.</i>	Coal	The opening of a valve in a steam range caused one of the pipes in the range to burst, and the man who opened the valve was severely scalded. The burst took place near the top of a shaft in which nine men were working on a brick- ing scaffold hanging in the shaft. Hearing the noise of the steam escaping at the surface, and being alarmed by the sudden failure of the electric light, they scrambled into a pump chamber in the side of the shaft, and in doing so one of them fell through a hole in the scaffold to the seam inset, 35 feet below. He was seriously injured and died six days later. Inspection and inquiry made.
131	12th November, 10 A.M.	Mosaboni mine, Mosaboni P. O., Bihar and Orissa.	Indian Copper Cor- poration, Ld.	Harold Sharpley, (m.), 48, <i>Mine Superin- tendent.</i>	Copper	Whilst stepping out of the bucket at the top of a shaft deceased missed his footing and fell to the bottom of the shaft, 57 feet below. He was killed instantly. Inspection and inquiry made.

IN SHAFTS (THINGS FALLING DOWN SHAFT)—(4 deaths).

132	18th April, 11 A.M.	Pretoria mine, Charanpur P. O., Bengal.	Seebpore Coal Co., Ld.	Hemna Darabi, (m.), 30, <i>Onsetter.</i>	Coal	Whilst an onsetter was taking a tub off a cage at the bottom of a shaft, 425 feet deep, he was fatally injured by a small piece of coal which fell from a tub which had just been raised to the surface in the other cage. Inspection and inquiry made.
133	24th June, 4-30 A.M.	Jharia Khas mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ld.	Misrihal Dhanuk, (m.), 32, <i>Assistant On- setter.</i>	Coal	Due to a mistake in signalling a cage was drawn up a shaft before the empty tub was pulled clear. When the cage had ascended about 30 feet the tub fell from the cage on to the protective roofing. The roofing collapsed, and deceased, who was standing beneath, was killed instantly. Inspection and inquiry made.
134	17th July, 2 A.M.	Poriapur mine, Churulia P. O., Bihar and Orissa.	Poriapur Collieries, Ld.	Somra Manjhi, (m.), 21, <i>Shaft Sinker.</i>	Coal	A shaft sinker engaged in drilling a hole at the bottom of a sinking shaft, 298 feet deep, was struck on the head and killed instantly by a piece of stone which fell from the side of the shaft. Inspection and inquiry made.
135	7th November, 2 A.M.	New Satgram mine, Joba P. O., Bengal.	New Satgram Coal Co., Ld.	Kali Manjhi, (m.), 23, <i>Sinker.</i>	Coal	A sinker was struck on the head and fatally injured by a small piece of stone which fell down a shaft 305 feet deep. The exact cause of the occurrence could not be ascertained. Inspection and inquiry made.

IN SHAFTS (MISCELLANEOUS)—(4 deaths).

136	21st May, 9-30 P.M.	Bejjih mine, Sunderchuck P. O., Bengal.	Equitable Coal Co., Ld.	Birajo Kolu, (f.), 20, <i>Loader.</i>	Coal	Whilst attempting to cross the bottom of a shaft deceased was caught by the descending cage and killed instantly. Had she used the bye-pass road, the accident would not have occurred. Inspection and inquiry made.
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APPENDIX II—contd.

Fatal Accidents during the year 1928—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
IN SHAFTS (MISCELLANEOUS)—(4 deaths)—contd.						
137	18th September, 4 P.M.	Central Kujama mine, Jheria P. O., Bihar and Orissa.	Central Kujama Coal Conceru.	Sindhu Bala, (f.), 30, Coal carrier.	Coal	Whilst repairs to a tramline on a shaft landing were being executed deceased, after descouping the shaft, opened the cage gate and stepped out on to the landing. She fell through a hole between the rails into the sump below and was drowned. Inspection and inquiry made.
138	21st October, 2 A.M.	Dishergarh mine, Dishergarh P. O., Bengal.	Equitable Coal Co., Ld	Chutu Moah, (m.), 25, Barki Manjhi, (m.), 36, Sinkers.	Coal	Whilst a gang of seven sinkers was at work at the bottom of a shaft 60 feet deep a bucket which was being lowered became detached from the rope and fell to the bottom. One of the men was killed and another was fatally injured. Had the bucket been properly attached to the hook by the Hookman this accident would not have occurred. Inspection and inquiry made.
SUFFOCATION BY GASES—(1 death).						
139	1st October 11 A.M.	Borjan and Kongon mine, Kongon P. O., Assam.	Nazira Coal Co., Ld.	Md. Habibur Roh- man Choudhuri, (m.), 23, Timekeeper.	Coal	In spite of warning a timekeeper entered an underground gallery which contained foul gas. He was overcome by the gas and expired before he could be rescued. Inspection and inquiry made.
BY EXPLOSIVES—(17 deaths).						
140	10th January, 2-30 P.M.	Jeetpur mine, Jeetpora P. O., Bihar and Orisen.	Bengal Iron Co., Ld.	Latua Mahatin, (f.), 24, Coal carrier. Dinu Bauri, (m.), 20, Explosive- carrier.	Coal	Whilst an explosive-carrier named Dinu was pouring gun- powder back into a cartridge after fitting a fuse, some of the fine powder was wafted into the flame of an oil lamp which was close by him. The gunpowder in the cartridge and about 5 lb. of gunpowder contained in a tin, which he had left open, became ignited. Dinu and four people who were sleeping nearby were severely burnt and two of them subsequently died.

141	3rd March, 5 P.M.	Hariipur mine, Chora P. O., Bengal.	Sircar & Dutt	Sonatan Bhurmij, (m.), 29, Coal cutter.	Coal	If the oil lamp had been kept further away from the gunpowder the accident would not have occurred. Inspection and inquiry made.
142	2nd April, 5-15 P.M.	Wah mine, Wah P. O., Punjab.	Punjab Portland Cement Co., Ltd.	Faiz Alam, (m.), 28, Driller.	Limestone	Deceased after having lighted a round of five shots of gunpowder was retiring to a place of safety and had reached a distance of 390 feet from the place of firing when the shots exploded and he was struck on the head and fatally injured by a small piece of stone weighing about 4 lb. Inspection and inquiry made.
143	4th April, 11 P.M.	Kendwadib mine, Kusunda P. O., Bihar and Orissa.	East Indian Coal Co., Ltd.	Juma Singh, (m.), 22, Explosive carrier. Ahamed, (m.), 18, Labourer.	Coal	Five shot holes were about to be charged in the face of a gallery, and a shot-firer's assistant was taking the previously prepared charges—each consisting of 2/3 lb. of gunpowder—from his explosive box when a youth sitting nearby ignited a piece of discarded fuse, 4" long, and threw it away. The burning fuse fell on the gunpowder and ignited it. Both the youth and the shot-firer's assistant were fatally burnt and another man was burnt severely. Inspection and inquiry made.
144	24th April, 11-20 A.M.	Jamadoba mine, Jealgora P. O., Bihar and Orissa.	Tata Iron and Steel Co., Ltd.	Gulai Hazam, (m.), 33, Coal-cutter.	Coal	Whilst a miner and his mate were charging a shot hole, some loose gunpowder was drawn out of the hole with the tamping rod and fell on to an open light standing beneath the hole. About two seers of gunpowder, which was in an open canister two feet from the lamp, became ignited and they were severely burnt. One of them died eleven days later. If the canister had been closed and put in a safe place after the charge was taken out, the accident would have been avoided. Inspection and inquiry made.
145	21st May, 2 P.M.	Aldih mine, Sitarampur P. O., Bengal.	Aldih Coal Co., Ltd.	Nazir Meah, (m.), 17, Shot-firer's Assis- tant.	Coal	In underground workings a shot-firer was inserting fuses into gunpowder cartridges, and was sitting with his back to the gunpowder box, beside which his assistant was seated. By some means the gunpowder in the box became ignited. The shot-firer received slight burns, whilst his assistant was so severely burnt that he died shortly afterwards. Inspection and inquiry made.
146	10th August, 11-30 A.M.	Damagurria mine, Kulti P. O., Bengal.	Damagurria Coal Co., Ltd.	Tatku Painka, (m.), 30, Coal-cutter.	Coal	Whilst pointing out to a shot-firer the position of a shot hole in a quarry a miner threw down a lighted match and ignited gunpowder cartridges which the shot-firer had placed ready for charging. He sustained burns which caused death two days later. Inspection and inquiry made.

APPENDIX II—*contd.*

Fatal Accidents during the year 1928—*contd.*

Serial Number.	Date and hour of accident	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
BY EXPLOSIVES—<i>contd.</i>						
147	4th September, 1-30 P.M.	Bararee mine, Jealgora P. O., Bihar and Orissa.	East Indian Coal Co., Ltd.	Mukbulan, (J.), 22, Labourer.	Coal	A steam heated building used for drying country gunpowder, but containing at the time 60 lb. of country gunpowder, 12 lb. of compressed gunpowder and 7 lb. of dynamite was entirely demolished by an explosion caused by spontaneous ignition of the dynamite. One man working at a distance of 300 feet was fatally injured and two others passing within a distance of 70 feet were seriously injured by fragments of flying masonry. Dynamite or other explosives containing nitroglycerine should never be heated or placed in a heated building as heating even at low temperatures causes chemical decomposition which results in spontaneous ignition. Inspection and inquiry made.
148	20th October, 2 A.M.	Argada mine, Sirka P. O., Bihar and Orissa.	Bengal Nagpur Railway Co., Ltd.	Ramowar, (M.), 27, Shotfirer's Assistant.	Coal	After igniting a number of shots of country gunpowder in a quarry, the shotfirer and his assistant were retiring when one of the shots exploded prematurely and the assistant at a distance of 178 feet from the place was struck on the head and fatally injured by a piece of coal projected by the shot. If a longer fuse had been used the accident would not have occurred. Inspection and inquiry made.
149	21st October, 7-55 P.M.	Lawksawk mine, Bawzaing P. O., Burma	Sao Sao Soik.	Hari Parshad, (M.), 30, Miner.	Lead Silver.	In order to make a hitch for a post in the foot-wall of a stope two miners drilled two shot holes 18' deep and charged them with dynamite. Although only one detonation was heard when the shots were fired they assumed that the two shots had exploded simultaneously and whilst they were dressing the sides of the hitch the misfired charge exploded killing one miner and seriously injuring the other. Before resuming work they should have ascertained by a careful examination that both shots had exploded. Inspection and inquiry made.

150	17th November, 12 noon.	Kustore mine, Kusunda P. O., Bihar and Orissa.	Rancegunge Coal Association, Ld.	Kali Singh, (m.), 25, <i>Shot-firer.</i>	Coal	Soon after one of four gunpowder shots had failed to explode the shot-firer returned to the gallery, and when he was within a few feet of the face the fourth shot exploded and killed him. The accident would not have occurred if the regulations for shot-firing had been observed by the deceased. Inspection and inquiry made.
151	25th November, 11-30 A.M.	Sukri mine, Junnordeo P. O., Central Provinces.	Rai Sabib H. Verma & Munshi Kanhaiyalal, Ld.	Girdhar, (m.), 30, <i>Shot-firer and Cartridge maker.</i> Chhoto Khan, (m.), 40, <i>Coal-cutter.</i>	Coal	Deceased was preparing cartridges from loose gunpowder outside the door of a magazine. Another person was nearby. By some means which could not be definitely ascertained the gunpowder became ignited, with the result that both men were severely burned and died a few hours later. Inspection and inquiry made.
152	11th December, 12 noon.	MacLellan Ajita mine, Manaharpur P. O., Bihar and Orissa.	Bengal Iron Co., Ld.	Bodhan, (m.), 31, <i>Miner.</i>	Iron Ore	A miner was struck on the head and fatally injured by a piece of stone projected a distance of 350 feet by blasting operations in open workings. Inspection and inquiry made.
153	29th December, 5-40 A.M.	Bokaro mine, Bokaro P. O., Bihar and Orissa.	East Indian and Bengal Nagpur Railways.	Baldeo Teli, (m.), 30, <i>Labourer.</i>	Coal	Deceased had returned to the site of blasting operations in order to collect the firing cable leads. Whilst doing so his foot is said to have become entangled in the detonator (low tension) lead of a dynamite charge which had misfired. The charge exploded and he was fatally injured. Inspection and inquiry made.

IRRUPTIONS OF WATER—(7 deaths).

154	20th December, 6 A.M.	Bhaskajuri mine, Asansol P. O., Bengal.	Burrakur Coal Co., Ld.	Matla Manjhi, (m.), 40, Kalu Meah, (m.), 42, <i>Coal-cutters ;</i> Mudur Bux, (m.), 22, <i>Pump-man ;</i> Babulal Bauri, (m.), 27, Pannu Bauri, (m.), 40, Rakhi Baurin, (f.), 22, Mohi Baurin, (f.), 30, <i>Bailers.</i>	Coal	Water impounded in the workings of a lower seam forced out the filling in a shaft communicating with an upper seam. The workings of the upper seam were inundated and seven persons were drowned. Inspection and inquiry made.
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APPENDIX II—contd.

Fatal Accidents during the year 1928—contd.

Serial number	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age, and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
HAULAGE—(29 deaths).						
155	9th February, 11 P.M.	Loyabad mine, Bansjora P. O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Gouri Singh, (m.), 35, Hookman.	Coal	Deceased rode on a set of full tubs from his place of work to a haulage landing, and whilst he was attempting to uncouple the haulage rope from the set, his foot was grazed by the wheels of the first tub. His injuries were slight but he developed tetanus and died one month later. He was not authorised to ride on the tubs and he was not working at the place of accident. Inspection and inquiry made.
156	23rd February, 9-30 A.M.	Loyabad mine, Bansjora P. O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Jumbi Chamarin, (f.), 30, Loader.	Coal	After descending a shaft a woman was walking along the shaft landing when she became confused and stepped in front of three loaded tubs which were gravitating down an inclination of 1 in 50. She received injuries to the foot, and, pneumonia supervening, died three weeks later. Inspection and inquiry made.
157	25th February, 10-15 P.M.	Jharia Khas mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ld.	Mnni Tanti, (m.), 45, Trolleyman.	Coal	Whilst passing over a crossing a train of 6 loaded tubs, which was gravitating down a road dipping at about 1 in 60, collided with an empty tub which was standing near the crossing. Deceased was standing behind the empty tub and when the collision occurred he was severely injured and died fourteen days later. The accident would have been avoided if deceased had not pushed the empty tub too near to the crossing. Inspection and inquiry made.
158	9th March, 5 P.M.	Bhaskajuri mine, Asansol P. O., Bengal.	Burrakur Coal Co., Ld.	Phankhira Bauri, (m.), 30, Trammer.	Coal	Whilst a trammer was sitting by the side of a tramline one of his toes was run over and slightly injured by an empty tub. He died seven days later from tetanus. Inspection and inquiry made.
159	26th March, 4-10 P.M.	Choitodih mine, Katrasgarh P. O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Dukhi Mahato, (m.), 27, Trolleyman.	Coal	Whilst a train consisting of 4 tubs of stone and 3 empty tubs was being lowered down a haulage incline, dipping at 1 in 4, a coupling broke and the 4 tubs of stone ran wild. Deceased was struck by the stone which was thrown out of

160	7th April, 5-45 P.M.	Thummarguddi mine, Kanivihalli P. O., Madras.	Lalan & Co.	Udagai Earramma, (f.), 25 Loader.	Manga- nese.	the tubs when they overturned 170 feet lower down the incline, and he received injuries from which he died three hours later. The opening out of a badly welded draw-bar link caused the accident. Inspection and inquiry made.
161	20th April, 5 P.M.	Lakurka mine, Katrasgarh P. O., Bihar and Orissa.	Lakurka Coal Co., Ld.	Lalia Gepe, (m.), 25, Trammer.	Coal	The rope on a self-acting incline broke and the tubs ran wild. A workman who was walking down the incline at the time was struck by the loaded tub and fatally injured. Inspection and inquiry made.
162	21st April, 11-30 P.M.	Aldih mine, Sitarampur P. O., Bengal.	Aldih Coal Co., Ld.	Kali Singh, (m.), 35, Trammer.	Coal	A train of seven loaded tubs was being hauled up a grade of 1 in 9 when, owing to the failure of a coupling, six of the tubs ran again. A trammer, who had probably been riding on the train, was seriously injured and died nine days later. After the enquiry the designs of the couplings and the drag were improved. Inspection and inquiry made.
163	25th April, 5-30 P.M.	Junnoodeo (No. 2) mine, Junnoodeo P. O., Central Provinces.	Rai Sahib H. Vorma and Munshi Kashaynal, Ld.	Ramju Gond, (m.), 50, Trammer.	Coal	Whilst a train of eight loaded tubs was being hauled up a slope of 1 in 7, the three front tubs became derailed. A trolleyman who was riding on the front of the train was seriously injured and subsequently died. Inspection and inquiry made.
164	24th May, 5-30 P.M.	Khas Sitalpur Mine, Ukhra P. O., Bengal.	Khas Sitalpur Colliery, Co.	Munshi Gope, (m.), 40, Oiler.	Coal	Whilst a train of eight loaded tubs was being guided round a curve a coupling link broke and four tubs ran wild. Deceased was fatally injured and another man was slightly injured. Inspection and inquiry made.
165	30th May, 10 A.M.	Kendwadih mine, Kusanda P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Bhuniad Rant, (m.), 60, Greaser.	Coal	Whilst a workman was oiling the return pulley of a surface endless rope haulage his clothing became entangled and his leg was crushed between the rope and the wheel and had to be amputated. He died two days later. Although it was not prohibited he should not have oiled the wheel whilst it was in motion. Inspection and inquiry made.
						Whilst an empty tub was being pushed to the top of an endless rope haulage road, it got out of hand and ran away. After it had run uncontrolled for 400 feet down a gradient of 1 in 10, it struck deceased who was oiling the haulage rollers, and he received injuries from which he died three hours later. If the stop-block which was provided at the top of the incline had been closed, the accident would have been avoided. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1928—contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
HAULAGE—contd.						
166	12th June, 1 P.M.	Barkui mine, Parasia P. O., Central Provinces.	Pench Valley Coal Co., Ltd.	Jhela Maharain, (f.), 16, <i>Labourer.</i>	Coal	Two loaded tubs were being trammed down an underground road on a gradient of 1 in 30. In attempting to reach a muthole a woman crossed the line and was run over by the tubs. She was fatally injured. Inspection and inquiry made.
167	20th June, 10 A.M.	Khewra mine, Khewra P. O., Punjab.	Government of India.	Sakhi, s/o Kalu, (m.), 55, <i>Pointsman.</i>	Salt	A pointsman sat on the handle of a switch-lever whilst a train of wagons was being pushed by a locomotive along an underground haulage road. When the locomotive passed over the points the handle of the lever was jerked upwards and he was thrown against the rear wheels of the locomotive and fatally injured. He had worked as a pointsman for some years and ought to have known better than to place himself in so dangerous a position. Inspection and inquiry made.
168	7th July, 1 P.M.	Malkera mine, Katrasgarh P. O., Bihar and Orissa.	Tata Iron and Steel Co., Ltd.	Patla Dhobi, (m.), 26, <i>Haulage attendant.</i>	Coal	Whilst a train of three loaded tubs was being hauled from a level line on to a haulage road dipping at 1 in 5, the haulage rope, 5/8" in diameter, broke and a haulage attendant was crushed and fatally injured by the runaway tubs. As the train was about to be lowered down the haulage road a drag had not been attached in rear. Inspection and inquiry made.
169	12th July, 12 Noon.	Datla mine, Junnordeo P. O., Central Provinces.	Amalgamated Coal- fields, Ltd.	Pannwa Mahara, (m.), 23, <i>Labourer.</i>	Coal	Whilst a train of seven tubs was being lowered down a haulage plane the two leading tubs became uncoupled and ran wild. Deceased, who was travelling on the haulage incline, was struck by the run away tubs and fatally injured. Inspection and inquiry made.
170	2 nd July, 5-30 A.M.	Gaslitan mine, Sijua P. O., Bihar and Orissa.	New Maubhoom Coal Co., Ltd.	Gupan Chamar, (m.), 45, <i>Trolleyman.</i>	Coal	Whilst lowering four loaded tubs down a gradient of 1 in 50, deceased was overtaken by another loaded tub, running wild on the same tramway. In attempting to jump clear, he sustained a slight injury to his left foot. On the sixth day after the accident he developed tetanus, and he died on the following day. Inspection and inquiry made.

171	2nd August, 9 P.M.	Kondwadih mine, Jeaigora P. O., Bihar and Orissa.	Harriladih Coal Co., Ld.	Motia Domo, (m.), 25, Trammer.	Coal	Whilst a train of 8 loaded tubs was being hauled up a gradient of 1 in 10, the haulage rope broke and the train ran back 20 feet before being derailed by the back-stay. A trammer, who was riding on the rear of the first tub, was killed. He was not authorised to ride on the train. Inspection and inquiry made.
172	15th August, 7 P.M.	Barkui mine, Parasin P. O., Central Provinces.	Penoh Valley Coal Co., Ld.	Baloo Mohra, (m.), 50, Labourer.	Coal	Whilst a train of six empty tubs was being lowered down a haulage plane the leading tub became uncoupled and ran wild. Deceased who had been working on the track was overtaken by the run away tub and crushed between it and the corner of a pillar. He died shortly afterwards. Inspection and inquiry made.
173	17th August, 9 P.M.	Mahakali mine, Chanda P. O., Central Provinces.	Hajeobhoy Laljee & Co.	Sudania Mahar, (m.), 40, Labourer.	Coal	Deceased attempted to cross in front of two loaded tubs which were gravitating along an underground tramway on a gradient of 1 in 100. He fell down, was run over and killed instantly. Inspection and inquiry made.
174	28th August, 11 P.M.	Sitalpur mine, Dishergarh P. O., Bengal.	Bengal Coal Co., Ld.	Mukhi Mojhian, (f.), 27, Coal-carrier.	Coal	Whilst a train of three loaded tubs was being hauled up a gradient of 1 in 5, the rear tub became uncoupled and ran back. It struck and fatally injured a woman who was sitting by the side of the road. Inspection and inquiry made.
175	20th August, 7-30 P.M.	Chota Dhemu mine, Sitarampur P. O., Bengal.	Bengal Coal Co., Ld.	Dhanmad Rohidas, (f.), 35, Coal-carrier.	Coal	Owing to the falling-off of a coupling three empty tubs ran amain down a haulage road. A woman had contrary to orders, gone down this road instead of using the proper travelling road. She was struck by the leading tub and sustained fatal injuries. Inspection and inquiry made.
176	31st August, 4-30 A.M.	Lodna (Nos 4 and 5 Pits) mine, Jharua P. O., Bihar and Orissa.	Lodna Colliery Co., (1920) Ld.	Khandu Bauri, (m.), 38, Coal-cutter.	Coal	Whilst sitting on an underground tramline, a miner was struck by a loaded tub which was being pushed along by a trolley man. He sustained serious injuries, and died three days later. Inspection and inquiry made.
177	12th September, 11-30 A.M.	Loyabad mine, Bansjora P. O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Sabdar Ali, (m.), 32, Labourer.	Coal	Whilst a labourer was sitting on a tramline and helping to repair an electric cable, two loaded tubs which had run wild knocked him down. He was seriously injured and died two days later. Inspection and inquiry made.
178	6th October, about 8 P.M.	Loyabad mine, Bansjora P. O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Janki Mahato, (m.), 30, Hookman.	Coal	Whilst a train of five loaded tubs was being raised up an underground incline on a gradient of 1 in 3, a coupling broke and four tubs ran wild. Deceased was struck by the tubs and seriously injured. He died three days later. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1928—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 mine al worked.	Cause of accident and remarks.
HAULAGE—contd.						
179	11th October, 9 A.M.	Lodna mine, Jharia P. O., Bihar and Orissa.	North Burrakur Coal Co., Ld.	Bhajahari Pramanik, (m.), 40, <i>Line Mistry.</i>	Coal	Whilst a miner was lowering an empty tub down a haulage road dipping at 1 in 8, it got out of hand and ran wild. A line mistry who was repairing the track was struck and fatally injured by the runaway tub. Inspection and inquiry made.
180	12th October, 11 P.M.	Kurhurbari mine, Giridia P. O., Bihar and Orissa.	East Indian Rail- way.	Jitni Kolino, (f.), 20, Meghni Kolino, (f.), 23; <i>Coal-carr. ers.</i>	Coal	A train of 12 loaded tubs was being raised up a haulage incline, when the drawbar of the first tub failed and 11 tubs ran wild. A miner and three women who were standing on the haulage road were struck by the tubs and seriously injured. Two of the women subsequently died. Inspection and inquiry made.
181	15th October, 6-30 A.M.	Bararee mine, Jealgora P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Ram Protap Pauday, (m.), 45, <i>Coal-loader.</i>	Coal	Whilst deceased was pushing an empty tub on an under-ground haulage road a loaded tub being pushed in the opposite direction by a trolleyman collided with it and caused an injury to his foot. The wound was almost healed when tetanus developed and caused death after twenty-two days. Inspection and inquiry made.
182	5th December, 7 P.M.	Banksimula mine, Charanpur P. O., Bengal.	Bengal Coal Co., Ld.	Nilmony Kolc, (f.), 30, <i>Coal-carrier.</i>	Coal	A woman was pushing an empty tub along a level tram line when a loaded tub ran wild. She tried to get into a refuge hole, but was knocked down and fatally injured. Inspection and inquiry made.

UNDERGROUND MACHINERY—(2 deaths).

183	10th November, 2 P.M.	Dhemo Main mine, Sitarampur P. O., Bengal.	Dhemo Main Collieries, Ld.	Ariwell Madrassi, (m.), 27, <i>Machineman.</i>	Coal	Whilst a bar coal-cutting machine was "sumping in" at the side of a gallery the side stay fell out of position and caused the machine to swing round. The bar knocked out the anchor post and the latter struck one of the crew on the head, fatally injuring him. Inspection and inquiry made.
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84	15th December,	Dhemo Main mine, Sitarampur P. O., Bengal.	Dhemo Main Collieries Ltd.	Babulal Gowala, (m.), 35 Head-fitter.	Coal	Whilst supervising the erection and testing of a three-throw r.m. pump underground, a head-fitter attempted to mount the pump seating when the pump was in motion. He slipped and his clothes becoming entangled in the machinery, sustained injuries from which he died almost immediately. Inspection and inquiry made.
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SUNDRIES UNDERGROUND—(12 deaths).

185	17th February, 5-30 A.M.	Katras mine, Katrasgarh P. O., Bihar and Orissa.	Burrakur Coal Co., Ltd.	Gopi Napat, (m.), 20, Coal-carrier.	Coal	A miner was attempting to straighten the blunt end of a pick when he fell forward, and the sharp end of the pick pierced his abdomen. He died within twenty minutes. Inspection and inquiry made.
186	28th February, 5 P.M.	Jamadoba mine, Jealgora P. O., Bihar and Orissa.	Tata Iron and Steel Co., Ltd.	Rengta Manjhi, (m.), 50, Coal-cutter.	Coal	A sirdar was in the act of erecting a prop, when a portion of the roof broke away and knocked out the prop. A miner who was standing close by moved quickly to avoid the falling prop, and in doing so slipped and fell to the ground. He sustained a severe injury to the spine, and died within a few days. Inspection and inquiry made.
187	18th March, 12-30 A.M.	Bararee mine, Jealgora P. O., Bihar and Orissa.	East Indian Coal Co., Ltd.	Moher Mahato, (m.), 30, Coal-carrier.	Coal	A coal-carrier commencing to load a self-tipping tub let his basket fall into the tub. On climbing into the tub to retrieve the basket the tub overturned and fell on him killing him instantly. It is probable that one of the keys fitted to the tub to prevent accidental tipping was not in position. Inspection and inquiry made.
188	1st April, 5 A.M.	Loyabad mine, Bansjora P. O., Bihar and Orissa.	Burrakur Coal Co., Ltd.	Teekmoni Baurin, (f.), 20, Coal-carrier.	Coal	In a level gallery in a seam 27 feet thick floor coal was left over half the width of the gallery to form a carrying road from floor coal workings up to a loading line in the top of the seam. Some miners robbed coal and undercut the pathway and whilst deceased was carrying a basket of coal up to the loading line, a section of the pathway subsided with her and she was killed instantly. Inspection and inquiry made.
189	6th April, 1-30 P.M.	West Gopalichuk mine, Kuannda P. O., Bihar and Orissa.	Gopalichuk Coal Co., Ltd.	Jitan Dhobi, (m.), 40, Coal-cutter.	Coal	A sirdar was testing some roof coal in a gallery, 22 feet high, when about 5 cwt. of the coal fell and knocked out three props. In falling one of the props struck a miner on the head and killed him instantly. Inspection and inquiry made.
190	31st May, 1-30 P.M.	Newton Chikli mine, Parasia P. O., Central Provinces.	Newton Chikli Collieries, Ltd.	Bishni Kachhan, (f.), 23, Labourer.	Coal	Whilst carrying on her head a large lump of coal in an underground gallery a woman slipped and fell to the ground. She received injuries to the head and died within a few days. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1928—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.
191	16th June.	Chowrasia mine, Dishergarh P. O., Bihar and Orissa.	Equitable Coal Co., Ld.	Dalu Bol, (m.), 28, <i>Line-mistry.</i>	Coal	Owing to the collapse of a portion of the arching near the top of a highly inclined haulage slope an inrush of mud and water took place. A line-mistry was washed away and carried into waterlogged workings. His body was found six months later. Inspection and inquiry made.
192	7th July, 8-20 A.M.	Katras mine, Katrasgarh P. O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Baudhu Belda, (m.), 42, <i>Labourer.</i>	Coal	Whilst a labourer was loading a basket with debris in an incline cutting, 20 feet deep, he was struck on the head and fatally injured by a piece of stone weighing about 2 lb which is assumed to have fallen from a stone wall surrounding the incline. He died nine hours later. Inspection and inquiry made.
193	17th August, 2-30 A.M.	Lodna mine, Jharis P. O., Bihar and Orissa.	Lodna Colliery Co. (1920) Ld.	Sukdeo Singh, (m.), 34, <i>Coal-cutter.</i>	Coal	Whilst a miner was standing on a ladder dressing roof coal in a gallery, 13 feet high, he overbalanced and fell from a height of 7 feet on to a large piece of coal lying on the floor. He received injuries from which he died fifteen minutes later. Inspection and inquiry made.
194	6th October, 11-30 A.M.	Lodna mine, Jharis P. O., Bihar and Orissa.	Lodna Colliery Co. (1920) Ld.	Janki Kahar, (m.), 35, <i>Coal cutter</i>	Coal	A prop, 26 feet long, got out of control whilst it was being set in a depillaring area, and in falling it struck and dislodged another prop of the same length. The second prop fell on a miner and killed him instantly. All the miners had been removed from the place during the operation but deceased returned before he had received permission to do so. Inspection and inquiry made.
195	18th October, 12-30 A.M.	Jamadoba mine, Jeaigora P. O., Bihar and Orissa.	Tata Iron & Steel Co., Ld.	Padma Mall, (f), 38, <i>Coal-carrier.</i>	Coal	Whilst a woman was emptying a basket of coal into a mine car she slipped and fell on the edge of the car. She sustained internal injuries and died a few minutes later. Inspection and inquiry made.

SUNDRIES UNDERGROUND—(12 deaths).

196	9th November, 1-30 P.M.	Bhulanbaroo mine, Pathardih P. O., Bihar and Orissa.	Bhulanbaroo Coal Co., Ltd.	Sukhoob Chamar, (m.), 28, Coal-cutter.	Coal	A miner standing on a ladder was levering down by means of a crowbar roof coal in a gallery, 18 feet high, when he lost his hold on the ladder and fell to the ground. He sustained serious injuries to his knee and, the wound becoming septic, he died fifty-four days later. Inspection and inquiry made.
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BY SURFACE MACHINERY—(2 deaths).

197	25th February, 10 A.M.	Haripur mine, Chora P. O., Bengal.	Baraboni Coal Con- cern, Ltd.	Bhital Mahato, (m.), 45, Labourer.	Coal	During a temporary stoppage of the operation of hauling a boiler by means of a hand-winch, one of the workmen sat on the handle of the winch. The boiler rolled back unexpectedly and caused the handle to whirl round. The man was struck by the moving handle and sustained fractures of the skull and arm. He succumbed to his injuries a fortnight later. Had the pawl fitted to the winch been set in position, the accident would in all probability, have been avoided. Inspection and inquiry made.
198	29th December, 11-50 A.M.	Borjan and Kongon mine, Kongon P. O., Assam.	Nazira Coal Co., Ltd.	Ramjee, (m.), 21, Labourer.	Coal	As a carrier on an aerial ropeway entered a junction station, it fell from the rope and struck an attendant who was at work in the station. He was seriously injured, and died fourteen days later. Inspection and inquiry made.

ON SURFACE RAILWAYS AND TRAMWAYS BELONGING TO THE MINE—(5 deaths).

199	4th May, 12-30 P.M.	Sripore mine, Kalipahari P. O., Bengal.	Lodna Colliery Co. (1920) Ltd.	Etwarri Kabar, (m.), 36, Trolleyman.	Coal	After coupling two hand-shunted railway wagons, a trolleyman was emerging from between the wagons, when his head was crushed between the buffers, and he was killed instantly. Inspection and inquiry made.
200	18th June, 4 P.M.	Jharis Khas mine, Jharis P. O., Bihar and Orissa.	Standard Coal Co., Ltd.	Sabarot Dosadh, (m.), 35, Shunter.	Coal	A railway wagon was moved forward two yards from stationary wagons standing on a colliery siding graded at 1 in 150, and whilst the brake was being applied to hold the wagon in position a shunter crossed the line. The wagon ran back crushing him between the buffers of the moving wagon and the stationary wagons. Inspection and inquiry made.
201	26th June, 9-30 A.M.	Taungzun mine, Taungzun P. O., Burma.	Osman Mustikhan & Co.	O. Shwo, (m.), 28, Trammer.	Stone	Whilst a trammer was moving an empty tipping tub in the siding of a stone crushing plant, he was crushed between the side of the tub and the side of a loaded tub which was standing on the adjacent line near the end of the siding. He died the following day. If he had exercised reasonable care the accident would not have occurred. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1928—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.
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ON SURFACE RAILWAYS AND TRAMWAYS BELONGING TO THE MINE—(5 deaths)—contd.

202	21st August, 9 P.M.	Methani mine, Sitarampur P. O., Bengal.	Aldih Coal Co., Ltd.	Ram Sunder Singh, (m.), 30, Depot peon.	Coal	Whilst a peon was superintending the hand-shunting of a wagon on a railway siding another wagon gravitated slightly towards the first wagon. He was crushed between the buffers of the two wagons and sustained injuries so severe that he died on the day following. Inspection and inquiry made.
203	7th December, 1 P.M.	Benahir mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ltd.	Rohoman Meah, (m.), 25, Wagon trimmer.	Coal	Deceased was standing on the top of a loaded wagon when another wagon which was being hand-shunted bumped into it and caused him to fall to the ground. He sustained fatal injuries. Inspection and inquiry made.

BY ELECTRICITY—(2 deaths).

204	30th April, 6 P.M.	Katras mine, Katrasgarh P. O., Bihar and Orissa.	Burrakur Coal Co., Ltd.	Rohan Dosadh, (m.), 16, Engine Haulage attendant.	Coal	With the object of getting a bird's nest deceased climbed a tower carrying a 6 600 volt transmission line. He came into contact with one of the conductors and received a shock of approximately 3,800 volts to earth. He fell to the ground and was found dead at the base of the tower. Inspection and inquiry made.
205	6th September, 6-30 P.M.	Kymore mine, Kymore P. O., Central Provinces.	Central Provinces Portland Cement Co., Ltd.	Ragbirba, (m.), 23, Labourer.	Lime stone.	Deceased accidentally touched a transmission line post which was electrically charged due to the contact of an earthing ring fitted on it with a line conductor. He received a fatal shock. The system was 3 phase, 550 volts, insulated neutral. The post was connected to an earthplate which had a high resistance of 19 ohms.

MISCELLANEOUS ON SURFACE—(21 deaths).

206	11th January, 11 A.M.	Chickla-Sitasaongi mine, Dengri P. O., Central Provinces.	Central Provinces Manganese Ore Co., Ltd.	Kanai Goni, (m.), 34, Miner.	Manga- nese.	Whilst a mixer was barring down rock from the side of an open working he overbalanced and fell from a height of 15 feet. He sustained serious injuries and died seven days later. Inspection and inquiry made.
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207	6th February, 7-15 A.M.	Sania mine, Pandavapur P. O., Bengal.	Sania Collieries, Ld.	Rasana Dhangar, (f.), 25, Coal-carrier.	Coal	A woman was assisting her brother to carry a plank, 13' long x 10' x 2" thick, when she fell with the plank on top of her. She sustained a spinal injury and died fifteen minutes later. Inspection and inquiry made.
208	16th February, 11 A.M.	Dhemo Main mine, Sitarampur P. O., Bengal.	Dhemo Main Col- lieries, Ld.	Chitnu Bhuiyan, (f.), 40, Coal-carrier.	Coal	Whilst loading coal on the surface a woman was fatally injured by the collapse of a retaining wall. Inspection and inquiry made.
209	22nd February, 12 noon.	Kongon mine, Kongon P. O., Assam.	Nazira Coal Co., Ld.	Udabihadur Thapa, (m.), 26, Labourer.	Coal	A man employed for cutting grass for ponies was doing so at a point 90 feet above which an aerial ropeway was operating. A piece of timber, 8" x 8" x 6" falling from one of the buckets, struck and killed him. Inspection and inquiry made.
210	26th February, 10-30 A.M.	Pyu mine, Pyu P. O., Burma.	Ibrahim (Contractor.)	Mg Kan Hla, (m.), 34, Quarryman.	Stone	Whilst a quarryman was using a steel bar to remove stone from the face of a stone quarry, he slipped and fell from a height of 50 feet to the floor of the quarry. He sustained injuries from which he died a few minutes afterwards. A safety rope was provided. Inspection and inquiry made.
211	5th March, 3 P.M.	Tajwala mine, Dhak P. O., Panjab.	Northern India Coal Co.	Sultan Bux, (m.), 42, Trammer.	Coal	In stepping aside to avoid wagons moving on a surface tram line a trammer fell over the edge of a shelf of rock carrying the tram line along the side of a hill. He sustained injuries which caused death seventeen days later. Inspection and inquiry made.
212	9th April, 5 A.M.	Mudidih mine, Sijua P. O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Juman Khan, (m.), 3, Tro leyman; Dukhi Mia's daughter, (f.), 1½; Not known (bog- ger), (f.), 25; Not known (bog- ger), (f.), 1½; Parmeshwar Rajoor, (m.), 3½; Mangri Rajoorin, (f.), 6; Not employed.	Coal	Owing to an unexpected collapse of underground workings a surface subsidence took place, causing three blocks of miners' dwellings to be wrecked. A large number of persons were lying asleep in and about the dwellings at the time and of these persons six were killed, five were severely injured and thirty-five were slightly injured. Inspection and inquiry made.

APPENDIX II—contd.
Fatal Accidents during the year 1928—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.
213	11th April, 5-30 P.M.	Parbelia mine, Dishergarh P. O., Bihar and Orissa.	Bengal Coal Co Ld.	Ramprasad Nunia, (m.), 14, Labourer.	Coal	Whilst deceased was loading earth in a cutting for a surface tramway a mass of earth fell from the top of the cutting and rolled on to him, inflicting injuries from which he died thirty-six hours later. Inspection and inquiry made.
214	17th April, 9-30 A.M.	Dhori mine, Bokaro P. O., Bihar and Orissa.	Bokaro and Ram- gur, Ld.	Shikari, (m.), 16, Labourer.	Coal	Whilst engaged in cutting clay for use in building coke ovens from a face 9 feet high in an open excavation a labourer was struck and fatally injured by a mass of clay, weighing about a ton, which fell from the face. Inspection and inquiry made.
215	4th May, 7-20 A.M.	Man-Mak-Lang mine, Namtu P. O., Burma.	Burma Corporation, Ld.	Ai Thu, (m.), 28, Miner.	Iron Ore.	After a round of shots had been fired in a quarry a miner was walking back to his working place along a ledge 2 feet wide, when he slipped and fell 85 feet to the bottom of the quarry. He was killed instantly. If he had complied with instructions and taken refuse in the appointed place whilst the shots were being fired he would not have been killed. Inspection and inquiry made.
216	27th May, 10 A.M.	Mayangon mine, Mayangon P. O., Burma.	Ibrahim (Contractor).	Nathu, (m.), 35, Quarryman.	Stone.	Whilst a quarryman was using a crowbar on the face of a stone quarry he overbalanced and fell to the floor of the quarry from a height of 60 feet. He died a few minutes afterwards. If he had been securely attached to the safety rope which was provided the accident would have been avoided. Inspection and inquiry made.
217	8th August, 10-30 A.M.	Bararee mine, Jealgora P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Phnti Teli, (f.), 31, Labourer.	Coal	A woman who had quarrelled with and ran away from her husband climbed into a cistern to hide. The cistern was situated at the top of a shaft and to it was connected the exhaust pipe of an under-ground pump. When the pump was started she was severely scalded by exhaust steam; she died subsequently. Inspection and inquiry made.

MISCELLANEOUS ON SURFACE—(21 deaths).

218	4th September, 3 P.M.	Thabawleik mine, Margui P. O., Burma.	Anglo Burma Tin Co., Ltd.	Biswanath Garkha, (m.), 27, Miner.	Tin	A tree, 60 feet high, and 2' 6" in diameter, which had been rendered unstable by mining operations, fell over and crushed a dead tree, 1' in diameter, which was lying across a tin sluicing drain. Part of the dead tree fell into the sluicing drain killing a miner whilst he was at work. If the tree had been felled the accident would not have occurred. Inspection and inquiry made.
219	4th October, 2 P.M.	Kargali mine, Bokaro P. O., Bihar and Orissa.	Great Indian Peninsula Railway.	Chulaban, (m.), 45, Mason.	Coal	Whilst engaged in building a wall in a miner's dwelling deceased leaned against the wall and caused it to collapse. He fell to the ground, 5 feet below and sustained internal injuries which resulted in his death on the following day. Inspection and inquiry made.
220	7th December, 12 A.M.	Chowrasia mine, Dishergarh P. O., Bihar and Orissa.	Equitable Coal Co., Ltd.	Lokhu Kumer, (m.), 30, Blacksmith.	Coal	Whilst at work a blacksmith lost consciousness and fell into the fire. He was seriously burned, but had almost recovered when he contracted dysentery and died six weeks after the accident. Inspection and inquiry made.
221	20th December, 4 P.M.	Thabawleik mine, Margui P. O., Burma.	Thabawleik Tin Dredging, Ltd.	Victor H. Howman, (m.) 31, Engineer.	Tin	Whilst an Engineer in charge of a tin dredge was standing 500 feet in front of the dredge and 6 feet from the headline, giving instructions for clearing the headline off a tree stump, 1 foot high, against which it was caught, the headline slipped off the tree stump and struck him on the neck. He was severely injured and died twenty minutes later. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1928—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.	Reason for exclusion.	Cause of accident and remarks.
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FIGURES NOT INCLUDED IN THE STATISTICS—(27 deaths).

1	20th January 3-45 P.M.	Sunko-pore mine, Ukhra P. O., Bengal.	Burn & Co., Ltd.	Mrit'vanjoy Roy, (m.), 25, Wagon shunter.	Coal	Not a mining accident	Deceased and three other men were pushing a loaded wagon down a gradient of 1 in 101, when he suddenly collapsed and died fifteen minutes later. Death was due to heart failure. Inspection and inquiry made.
2	8th February, 10th P.M.	Lekh-pani mine, Margheria P. O., Assam.	Assam Railways and Tramway Co., Ltd.	Kazim-un Lama (m.), 46, Labourer.	Coal	Not a mining accident.	During a storm, a branch of a tree fell on a hut in which a man was sleeping. The hut collapsed upon him, killing him instantly. Inspection and inquiry made.
3	11th February, 6 A.M.	Nincha mine, Sarsool P. O., Bengal.	Haraboni Coal Concern, Ltd.	Shohagi Moj- hian, (f.), 42, Coal-carrier.	Coal	Not a mining accident.	Deceased was found drowned in a disused and water-logged incline-tunnel. She had gone through the fence for the purpose of washing herself. Inspection and inquiry made.
4	19th March, 11-25 A.M.	Serampur mine, Giridih P. O., Bihar and Orissa.	East Indian Rail- way.	Meghan Dosadh, (m.), 28, Labourer	Coal	Not a mining accident.	Deceased had quarrelled with his father over money matters. Whilst walking by the side of a railway he suddenly thrust his head beneath the slowly moving wheels of a goods van attached to a train of wagons. He was killed instantly. Inspection and inquiry made.
5	21st March, 5-30 P.M.	Jotejanaki Khas mine, Tosai P. O., Bengal.	Banerjee Santan.	Jungu Baurin, (f.) 14.	Coal	Not em- ployed.	A girl aged six, carrying an infant, was crossing a Railway line when a wagon began to move. She dropped the infant and it fell on the line and was run over. The brake of the wagon was said to have been defective. Inspection and inquiry made.
6	5th April,	Gopinathpur mine, Mugma P. O., Bihar and Orissa.	East Bengal Coal Co.	Unknown, (m.), 11.	Coal	Not em- ployed.	An unknown boy, suffering from severe bodily injuries which subsequently proved fatal was found in an underground gallery at a point 68 feet from the foot of an inclined cutting, 70 feet deep. It was assumed that he had jumped into the cutting from the surface. Inspection and inquiry made.
7	19th April, 1-30 P.M.	Churbari mine, Giridih P. O., Bihar and Orissa.	East Indian Rail- way.	Unknown, Mohammedan (m.), 40.	Coal	Not em- ployed	A beggar was run over and fatally injured in attempting to cross a colliery railway line in front of a locomotive. Inspection and inquiry made.

8	21st April, 2 P.M.	Borjan mine, Kongon P. O., Assam.	Nazira Coal Co., Ld.	Hasti, (m.), 13	Coal	Not employed.	A boy was sitting on the frame of the brake wheel of a self acting incline. When the rope was set in motion, his leg or his loincloth was caught between the rope and the wheel, and before the brake could be applied he had sustained injuries which afterwards proved fatal. Inspection and inquiry made.
9	24th April 1 P.M.	Jukehi mine, Katni P. O., Central Provinces	Nasarwanji Dubash.	M. Ghoomna Bhoomiya, (m), 14.	Lime- stone.	Not employed.	This accident occurred in an open excavation, about 25 feet deep, the side of which was sloped at an angle of about 35 degrees from vertical. The side was stepped, but a rib of ground, 4 feet wide had been left to support the delivery pipe of a pump. A portion of this rib, 9' 4' x 2' fell and fatally injured a boy who had brought food for one of the workers and had been drinking water from the pump standage at the bottom of the quarry. Inspection and inquiry made.
10	25th May, 9 A.M.	Jamrapani mine, Tirody P. O., Central Provin- ces.	Tirody Vangaueso Ore Co., Ld.	Dukaloo, (m.), 7.	Manga- nese.	Not em- ployed	With the object of obtaining water to drink deceased went through the fencing of a discontinued quarry fell over the edge into water, 10 feet deep, and was drowned. Inspection and inquiry made.
11	27th June, 5 A.M.	Borjan mine, Kongon P. O., Assam.	Nazira Coal Co., Ld.	Gulsa Pathan, (m). 35. Coal-cutter.	Coal	Not a mining acci- dent.	As the result of a storm a tree fell on a dwelling in which several persons were sleeping. One of them was struck and fatally injured. Inspection and inquiry made.
12	28th June, 7-30 A.M.	Island mine, Mergui P. O., Burma.	Mergui Tin Dredg- ing Co., Ld.	Mea Paw. (f.), 51.	Tin	Not em- ployed.	A woman went to steal tin ore from a part of a mine where operations had been temporarily suspended and whilst she was undercutting the side of a sluicing drain, 6 feet deep, a mass of earth 6' x 4' 6" x 1' 6" fell from the side and killed her instantly. Inspection and inquiry made.
13	19th July, 12-15 P.M.	Bansdeopur Mine, Kusumia P. O., Bihar and Orissa.	Bansdeopur Coal Co., Ld.	Tulia Ghatwarin, (f.), 18	Coal	Not em- ployed	With the object of calling her father to the surface a child, aged about 3 years entered a mine by way of a haulage incline and as she was being led to his working place by a female coal-carrier she was killed by a mass of coal, 40' x 10' x 3', which fell from the side of a pillar. An intrusive band composed of soft clay and coal dust varying in thickness from 3 to 12 inches was the immediate cause of the fall. Inspection and inquiry made.
14	1st August 10-30 A.M.	Toyahad mine, Bansjora P. O., Bihar and Orissa.	Bansrakur Coal Co., Ld.	Maharaja Bhuiya, (m.), 4.	Coal	Not em- ployed.	A child playing by the side of a tramline was struck and fatally injured by a tub which was being pushed along the tram line. The mother had disregarded the manager's order prohibiting the presence of children. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents during the year 1928—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.	Reason for exclusion.	Cause of accident and remarks.
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FIGURES NOT INCLUDED THE STATISTICS—(27 deaths)—contd.

15	4th September, about 2 P.M.	Loyabad mine, Bansjora P. O., Bihar and Orissa.	Burrakur Coal Co., Ld	Chotko Manjhi, (m.), 35, Coal-cutter	Coal	An accident under the Electricity Act.	With the object of getting a bird's nest deceased climbed a lattice post carrying a 6,600 volt transmission line conveying power to a colliery distant from the place of accident. He came in contact with a live conductor and, receiving an electric shock at approximately 3,800 volts, fell to the ground 32 feet below. He was fatally injured by the fall. Inspection and inquiry made.
16	6th September, 8-45 A.M.	Bararae mine, Jealgora P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Saroda Dass, (m.), 45, Bhusan Bauri, (m.), 26, Boiler riveters; Bhatu Mahoto, (m.), 50, Labourer.	Coal	An accident under the Boilers Act.	Whilst three workmen were engaged on minor repairs inside a Lancashire boiler another workman commenced to pack the gland on the feed water valve and in doing so accidentally opened the valve. Hot water entered the boiler, and three men were so severely scalded that they succumbed to their injuries a few days later. If the feed water pipe had been disconnected in accordance with the Indian Boiler Regulations the accident would not have occurred. Inspection and inquiry made.
17	6th September, 5-45 P.M.	Jamuria mine, Charanpur P. O., Bengal.	Equitable Coal Co., Ld.	Unknown, (f.), 35.	Coal	Not employed	An unknown person was found drowned in a boiler feed tank. Inspection and inquiry made.
16	11th September, 3 A.M.	Loyabad mine, Bansjora P. O., Bihar and Orissa	Burrakur Coal Co., Ld.	Somai Mochi, (m.), 20, Shale picker.	Coal	An accident under the Indian Railways Act.	After a train of loaded wagons had been drawn out of the colliery siding the mutilated body of a shale picker employed on a screening plant 190 feet distant was found on the line. The accident occurred during the hours of darkness and as no one witnessed it the attending circumstances are not known. Inspection and inquiry made.
19	11th September, 4 P.M.	Shivrajpur mine, Shivrajpur P. O., Bombay.	Shivrajpur Syndicate, Ld.	Ramehand Churnilal, (m.), 22, Miner.	Manganese.	Not a mining accident.	Whilst bathing in a flooded excavation, 20 feet deep, deceased was drowned. Inspection and inquiry made.

20	10th October, 4 P.M.	North Kujama mine, Jharia P. O., Bihar and Orissa.	Ganji Dossa & Sons.	Rama Bhuiya, (m.), 13.	Coal	Not employed.	In attempting to jump on the first of three runaway tubs on a surface tram line a boy fell and was run over. He sustained injuries to which he succumbed five days later. Inspection and inquiry made.
21	17th October, 4 P.M.	Lower and Upper Jharia mine, Jharia P. O., Bihar and Orissa.	Khimji Dossa & Sons.	Nuailal Bhuiya, (m.), 7.	Coal	Not employed.	A number of children were presumed to have been playing with a tipping tub, when it overturned and fell on one of them killing him instantly. Inspection and inquiry made.
22	28th October, 8-45 A.M.	Argada mine, Sirka P. O., Bihar and Orissa.	Bengal-Nagpur Railway Co., Ltd.	Not known, (f)	Coal	Not employed	After the cessation of work at the end of the week a number of village women came to the quarry to get for their own purposes white clay which forms a layer in the overburden. In scooping out the clay they undercut the side and caused a portion of the overburden, 6' x 6' x 2' 6", to fall on them. One woman was suffocated and another was seriously injured. Inspection and inquiry made.
23	5th December, 12 noon.	Naung-tha-Khaw mine, Nawtu P. O., Burma.	Burma Corporation, Ltd.	Fuchit Kore, (m.), 50, Cart driver.	Iron Ore	Not a mining accident.	A cartman was carting ore from the mine to the loading siding. When some three miles distant from the mine his bullocks got out of hand and he fell off the cart and was run over by one of the wheels. He was killed instantly. Inspection and inquiry made.
24	8th December, 9 A.M.	Madhabpur mine, Raniganj P. O., Bengal.	Chandanmull Indrakumar.	Honsuraj Mabata (m.), 35, Hapta Mahata, (m.), 23, Gun-powder makers.	Coal	An accident under the Explosives Act.	Two men were engaged in manufacturing gunpowder outside a small factory magazine. After completing the mixing of some saltpetre and charcoal over a fire, they replaced in the magazine which contained six seers of powder a sack which they had been using when the powder exploded and both men were fatally burnt. It was thought that the sack had become ignited near the fire and was smouldering when returned to the magazine. Inspection and inquiry made.

Table

Statement of fatal and serious accidents in and about Mines

Province.	District and Mineral field.	FATAL							
		Number of separate fatal accidents.	Number of deaths.						
			Under-ground.		Open workings.		Surface.		Total.
			Males.	Females.	Males.	Females.	Males.	Females.	
Assam	Makum Coalfield	4	4	...	...	...	...	4	
	Nazira ..	3	1	...	...	2	...	3	
Bengal (and part of Bihar and Orissa).	Raniganj Coalfield	57	46	13	5	...	6	2	72
Bihar and Orissa	Jharia Coalfield	95	79	18	...	...	5	6	108
	Bokaro ..	6	4	...	1	...	2	...	7
	Karanpura ..	1	...	...	1	...	...	...	1
	Giridih ..	6	8	3	...	...	...	...	11
	Jainty ..	1	1	...	...	...	...	...	1
Central Provinces	Pench Valley Coalfield	8	4	2	1	...	2	...	9
	Chanda ..	1	1	...	...	...	...	...	1
Punjab	Salt Range Coalfield	1	...	...	...	...	1	...	1
Total (Coal)		183	148	36	8	...	18	8	218

DIX II.

No. 2.

regulated by the Indian Mines Act, 1928.

ACCIDENTS.				SERIOUS ACCIDENTS.													
Death rate per 1000 persons employed.				Number of separate serious accidents.	Number of persons seriously injured.						Total.	Serious injury rate per 1000 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.							
AL																	
2.14	...	...	1.12	61	44	1	...	...	18	2	63	24.05	...	19.27	17.69		
2.60	...	7.72	4.66	2	...	...	...	...	2	...	2	..	...	7.72	3.11		
1.74	3.23	0.49	1.39	74	50	14	1	...	12	3	80	1.69	0.65	0.93	1.55		
2.07	..	0.46	1.51	215	144	16	1	...	57	1	219	3.41	0.90	2.41	3.04		
5.60	0.06	0.76	0.44	24	6	...	11	3	5	...	25	8.40	1.12	1.90	1.58		
...	0.81	...	0.35	...	...	...	...	...	..	...	...	...	...	...	...
1.67	...	...	1.28	30	18	8	...	...	3	1	30	3.96	...	2.19	3.49		
3.68	...	...	2.42	...	...	...	...	...	...	...	...	...	...	...	...
1.77	11.63	1.26	1.78	24	15	4	...	...	7	..	26	5.02	...	4.40	5.14		
0.73	...	...	0.54	5	3	...	...	...	2	...	5	2.18	...	4.07	2.68		
...	...	3.32	1.31	4	3	...	...	...	2	...	5	6.79	...	6.64	6.53		
1.89	0.46	0.52	1.33	439	283	43	13	3	106	7	455	3.36	0.92	2.28	2.77		

Table

Statement of fatal and serious accidents in and about Mines

Province.	District and Mineral field.	FATAL							
		Number of separate fatal accidents.	Number of death.						Total.
			Under-ground.		Open workings.		Surface.		
Males.	Females.	Males.	Females.	Males.	Females.				
IRON									
Bihar and Orisa . . .	Singhbhum District . .	2	..	...	1	1	...	...	2
Burma	Shan States	1	...	...	...	...	1	...	1
	Total (Iron Ore)	3	...	...	1	1	1	...	3
MANGA									
Bombay . . . . .	.....	1	1	...	...	...	...	...	1
Central Provinces . .	.....	5	...	...	3	2	...	...	5
Madras . . . . .	.....	1	...	...	...	1	...	...	1
	Total (Manganese Ore)	7	1	...	3	3	...	...	7
LEAD									
Burma	Shan States	5	5	...	...	...	...	..	5
TIN AND									
Burma	Tavoy and Mergui Districts.	7	1	...	6	...	1	...	8
COPPER									
Bihar & Orissa . . .	Singhbhum District . .	1	1	...	...	...	...	...	1
	Total (Copper Ore).	1	1	...	...	...	...	...	1

DIX II—contd

No. 2—contd.

regulated by the India Mines Act, 1928.

ACCIDENTS.				SERIOUS ACCIDENTS.											
Death rate per 1000 person employed.				Number of separate serious accidents.	Number of persons seriously injured.						Total.	Serious injury rate per 1000 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.					
ORE															
...	0.43	...	0.28	5	...	...	1	...	4	...	5	...	0.21	1.65	0.71
...	...	2.02	1.07	3	...	...	1	...	2	...	3	...	3.11	4.03	3.22
...	0.40	0.33	0.37	8	...	...	2	...	6	...	8	...	0.40	1.99	0.98
NESE ORE															
22.23	...	...	0.33	22	2	...	11	2	4	3	22	44.44	5.53	10.48	7.23
...	0.27	...	0.21	43	8	1	18	2	19	5	43	7.99	0.82	6.05	2.05
...	0.69	...	0.56	1	...	...	...	...	1	...	1	...	...	2.86	0.56
0.64	0.26	...	0.24	66	10	1	24	4	24	8	71	9.21	1.21	6.19	2.40
ORE															
1.10	...	...	0.93	77	71	...	1	...	9	...	81	15.69	16.66	11.28	13.04
WOLFRAM ORE															
1.60	0.98	1.09	1.05	8	3	...	5	...	2	...	10	5.08	0.81	2.16	1.31
ORE															
9.17	...	...	1.60	2	2	...	...	...	...	...	2	18.35	...	...	3.20
9.17	...	...	1.52	2	2	...	...	...	...	...	2	18.35	...	...	3.04

Table

Statement of fatal and serious accidents in and about Mines

Province.	District and Mineral field.	FATAL							
		Number of separate fatal accidents.	Number of deaths.						TOTAL.
			Under-ground.		Open workings.		Surface.		
			Males.	Females.	Males.	Females.	Males.	Females.	
Burma	Katha District . . . . .	...	...	...	...	...	...	...	GE
Bihar & Orissa . . . . .	.....	1	...	...	2	...	...	...	MI
	Total (Mica)	1	...	...	2	...	...	...	2
Bihar and Orissa	Monghyr District	...	...	...	...	...	...	...	SLA
	Total (Slate)	...	...	...	...	...	...	...	...
Punjab	Salt Range	1	1	...	...	...	...	...	SA
Bihar and Orissa . . . . .	.....	1	...	...	1	...	...	...	LIME
Burma . . . . .	.....	...	...	...	...	...	...	...	...
Central Provinces	.....	2	...	...	1	...	1	...	2
Punjab . . . . .	.....	3	...	...	2	...	1	...	3
	Total (Limestone)	6	...	...	4	...	2	...	6

DIX II—contd.

No. 2—contd.

regulated by the Indian Mines Act, 1928—contd.

ACCIDENTS				SERIOUS ACCIDENTS.											
Death rate per 1,000 persons employed.				Number of separate serious accidents.	Number of persons seriously injured.						TOTAL.	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.					
MS															
...	...	...	...	1	...	...	...	...	1	...	1	...	...	5.05	1.97
CA															
...	0.99	...	0.15	8	7	1	...	...	...	...	8	0.79	...	...	0.60
...	0.59	...	0.11	8	7	1	...	...	...	...	6	0.64	...	...	0.44
TE															
...	...	...	...	1	...	...	1	...	...	...	1	...	5.15	...	5.00
...	...	...	...	1	...	...	1	...	...	...	1	...	2.06	...	1.86
LT															
1.08	...	...	0.65	7	6	...	...	...	1	...	7	6.18	...	1.85	4.58
STONE															
...	0.9	...	0.64	3	...	...	...	...	3	...	3	...	...	6.68	1.91
...	...	...	...	2	...	...	3	...	...	...	3	...	9.17	...	8.38
...	0.20	0.92	0.34	3	...	...	...	...	2	1	3	...	...	2.77	0.50
...	3.10	0.77	1.55	3	...	...	3	...	...	...	3	...	4.64	...	1.55
...	0.58	0.70	0.61	11	...	...	6	...	5	1	12	...	0.86	2.10	1.22

Table

Statement of fatal and serious accidents in and about Mines

Province.	District and Mineral field.	Number of separate fatal accidents.	FATAL						
			Number of deaths.						
			Under-ground.		Open workings.		Surface.		Total.
			Males.	Females.	Males.	Females.	Males.	Females.	
IGNEOUS									
Bengal . . . . .	.....	...	...	...	...	...	...	...
Bihar and Orissa . . . . .	.....	...	...	...	...	...	...	...
Bombay . . . . .	.....	1	...	...	...	1	...	1
Burma . . . . .	.....	5	...	...	4	...	1	5
	Total (Igneous Rock)	6	...	...	4	1	1	6
STONE (UN									
United Provinces . . . . .	.....	...	...	...	...	...	...	...
	Total (Stone unspcified). . . . .	...	...	...	...	...	...	...
MU									
Bombay . . . . .	.....	...	...	...	...	...	...	...
FIRE									
Bihar and Orissa . . . . .	.....	1	...	...	2	...	...	2
	Total (Fire Clay)	1	...	...	2	...	...	2
	Grand Total (All minerals).	221	157	36	30	5	23	259	

DIX II—*contd.*No. —*contd.*regulated by the Indian Mines Act, 1928—*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.					
ROCK															
...	...	...	...	2	...	...	...	...	2	...	2	...	...	2.69	1.67
...	...	...	...	1	...	...	...	...	1	...	1	...	...	1.32	0.41
...	1.53	...	1.27	...	...	...	...	...	...	...	...	...	...	...	...
...	1.78	2.78	1.92	19	...	...	12	...	8	...	20	...	5.35	22.22	7.68
...	0.98	0.50	0.85	22	...	...	12	...	11	...	23	...	2.36	5.52	3.25
SPECIFIED)															
...	...	...	...	1	...	...	1	...	...	...	1	...	0.66	...	0.64
...	...	...	...	1	...	...	1	...	...	...	1	...	0.21	...	0.18
RUM															
...	...	...	...	2	...	...	...	1	1	...	2	...	0.74	11.76	1.39
CLAY															
...	6.08	...	3.58	1	...	...	...	...	1	...	1	...	...	5.46	1.94
..	1.97	...	1.56	1	...	...	...	...	1	...	1	...	...	3.83	0.78
1.64	0.44	0.44	0.97	654	382	45	65	8	167	16	683	3.62	0.92	2.60	2.55

APPENDIX II—concl'd.

Table No. 3.

Statement of fatal accidents in Mines regulated by the Indian Mines Act, during the year 1928, classified according to cause of accident.

Mineral worked.	Number of separate fatal accidents.	Number of persons killed.											Death rate per 1,000 persons employed				
		Explosions and ignitions of fire-damp	Falls of roof.	Falls of side.	In shafts.	Suffocation by gases.	By explosives.	Eruptions of water.	Heavals.	Miscellaneous underground.	Surface.	By electricity.	Total deaths.	Underground.	Open workings.	On surface.	Underground, open workings and surface.
Coal	183	3	81	36	13	1	14	7	27	14	21	1	218	1.69	0.46	0.52	1.33
Iron Ore	3	..	..	1	..	..	1	..	..	..	1	..	3	..	0.40	0.33	0.37
Manganese Ore.	7	..	..	5	..	..	..	..	1	..	1	..	7	0.84	0.26	..	0.24
Lead Ore	5	..	2	..	2	..	1	..	..	..	..	..	5	1.10	..	..	0.93
Tin and Wolfram Ore.	7	..	1	5	..	..	..	..	..	..	2	..	8	1.69	0.98	1.09	1.05
Copper Ore	1	..	..	..	1	..	..	..	..	..	..	..	1	9.17	..	..	1.52
Mica	1	..	..	2	..	..	..	..	..	..	..	..	2	..	0.59	..	0.11
Salt	1	..	..	..	..	..	..	..	1	..	..	..	1	1.03	..	..	0.65
Limestone	6	..	..	4	..	..	1	..	..	..	..	1	6	..	0.58	0.70	0.61
Igneous Rock	6	..	..	3	..	..	..	..	..	..	3	..	6	..	0.98	0.50	0.85
Fireclay	1	..	..	2	..	..	..	..	..	..	..	..	2	..	1.97	..	1.56
Total 1928	221	3	84	58	16	1	17	7	29	14	28	2	259	1.64	0.44	0.44	0.97
Total of preceding year.	209	1	63	59	10	9	27	..	24	23	29	2	247	1.46	0.57	0.41	0.92
Difference	+12	+2	+21	-1	+6	-8	-10	+7	+5	-9	-1	..	+12	+0.18	-0.13	+0.3	+0.5

APPENDIX III.

Statement of prosecutions under the Indian Mines Act, and Indian Penal Code, during the year 1928.

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	Bankura . . .	1	1	1	Regulations 38 and 40 of the Indian Coal Mines Regulations, 1926.	
	Burdwan . . .	3	7	3	Regulations 3(2) and (3) of the Indian Coal Mines Regulations, 1926.	One of the accused was acquitted, one died and the case against two was withdrawn.
	Do.	1	4	2	Regulation 76 of the Indian Coal Mines Regulations, 1926.	Two of the accused were acquitted.
	Do.	1	2	2	Regulation 76(1) of the Indian Coal Mines Regulations 1926.	
	Do.	1	2	2	Regulations 101, 108 and 118 of the Indian Coal Mines Regulations, 1926.	
	Do.	1	1	...	Regulation 103 of the Indian Coal Mines Regulations, 1926.	The case has not been finally disposed of as the accused has not yet been traced.
	Do.	1	2	2	Regulations 58 c), 67 and 141 of the Indian Coal Mines Regulations, 1926.	
	Do.	1	2	2	Regulations 15(4), 137 and 141 of the Indian Coal Mines Regulations, 1926.	
	Do.	1	2	2	Regulation 141 of the Indian Coal Mines Regulations, 1926.	
	Do.	2	2	2	Regulations 127 (a) and (e) of the Indian Coal Mines Regulations, 1926.	
Do.	1	2	2	Sections 28 and 35(d) of the Indian Coal Mines Act and Regulation 149 of the Indian Coal Mines Regulations, 1926.		

APPENDIX III—*contd.*

Statement of prosecutions under the Indian Mines Act, and Indian Penal Code, during the year 1928—*contd.*

Province.	District.	Number of prosecutions.	Number of persons prosecuted.	Number of persons convicted.	Number of Regulations and rules and Sections of the Act contravened.	REMARKS.
Bengal— <i>contd.</i>	Burdwan . . .	1	1	...	Regulation 127(a) of the Indian Coal Mines Regulations, 1926 and Section 40 of the Indian Mines Act, 1923.	Case dropped as accused could not be traced.
	Do. . . .	1	1	1	Regulation 146 of the Indian Coal Mines Regulations, 1926.	
	Do. . . .	1	2	1	Section 19(2) of the Indian Mines Act, 1923 and Regulations 15 and 138 of the Indian Coal Mines Regulations, 1926.	Case against one of the accused was dropped.
	Do. . . .	1	2	2	Regulations 67 and 69 of the Indian Coal Mines Regulations, 1926 and Special Rule 41.	
	Hazaribagh . . .	3	5	3	Regulations 3 (1) and (2) of the Indian Metalliferous Mines Regulations, 1926.	Case against two of the accused was dropped.
	Do. . . .	1	2	2	Rule 15 made under Section 30 of the Indian Mines Act, 1923.	
Bihar and Orissa.	Manbhum . . .	1	2	2	Rules 12, 14 and 14 (a) of the Rules made by the Bihar and Orissa Government in Notification No. 2698-VIIM-2-Com. dated 8th September 1924 read with Notification No. 533-VIIM-17-Com. dated 2nd October 1926.	
	Do. . . .	1	1	1	Regulation 76 of Indian Coal Mines Regulations, 1926.	
	Do. . . .	1	1	1	Regulations 23 and 137 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 1928—*contd.*

Province.	District.	Number of prosecutions.	Number of persons prosecuted.	Number of persons convicted.	Number of Regulations and rules and Sections of the Act contravened.	REMARKS.
Bihar and Orissa— <i>contd.</i>	Manbhum . . .	5	7	4	Regulations 3 (2) and (3) of the Indian Coal Mines Regulations, 1926.	One of the accused was acquitted and cases against the other two were dropped one having absconded.
	Do. . . .	1	2	2	Regulations 67 and 139 of the Indian Coal Mines Regulations, 1926.	
	Do. . . .	1	4	4	Sections 23 and 35 (d) of the Indian Mines Act, 1923.	
	Do. . . .	1	2	2	Section 23 of the Indian Mines Act, 1923.	
	Do. . . .	1	1	1	Regulations 84 and 148 of the Indian Coal Mines Regulations, 1926.	
	Do. . . .	1	1	1	Regulations 58 (h) and 141 of the Indian Coal Mines Regulations, 1926 and Rule 17 made under Section 30 of the Indian Mines Act, 1923.	
	Do. . . .	1	1	1	Regulation 117 of the Indian Coal Mines Regulations, 1926.	
	Do. . . .	1	1	1	Regulations 38 and 40 of the Indian Metalliferous Mines Regulations, 1926.	
	Do. . . .	1	1	1	Rule 18 of Bihar and Orissa Government Notification No. 2608-VIIM-2-Com., dated 8th September 1924.	
	Do. . . .	1	2	1	Regulations 139 and 146 read with Sections 16 and 39 of the Indian Mines Act, 1923.	One of the accused was acquitted.
	Do. . . .	1	1	...	Regulation 146 of the Indian Coal Mines Regulations, 1926.	The accused was acquitted.

APPENDIX III—*contd.*

Statement of prosecutions under the Indian Mines Act, and Indian Penal Code, during the year 1928—*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>concl.</i>	Manbhum . . .	1	2	2	Regulation 69 of the Indian Coal Mines Regulations, 1926.	
	Do.	3	10	7	Regulations 82 and 84 of the Indian Coal Mines Regulations, 1926.	One of the accused was acquitted and the case against two was dropped.
	Do.	2	2	2	Section 15 of the Indian Mines Act, 1923.	
	Do.	1	1	...	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	Case was withdrawn.
	Do.	1	1	1	Regulation 170 of the Indian Boilers Act, 1923.	
	Do.	1	2	2	Section 26 of the Indian Mines Act, 1923.	
	Santhal Parganas	1	3	2	Regulations 15, 25 and 67 of the Indian Coal Mines Regulations, 1926.	One of the accused was acquitted.
	Do.	1	1	...	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	Case withdrawn.
	Do.	1	1	...	Sections 39 and 40 (1) of the Indian Mines Act, 1923 read with Regulations 13, 146 and 147 of the Indian Coal Mines Regulations, 1926.	Case dropped as the accused died.
	Shahabad . . .	2	3	2	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	Case against one of the accused was dropped.
	Singhbhum . . .	1	2	1	Regulation 43 (1) of the Indian Metalliferous Mines Regulations, 1926 and Rules 9 and 19 made under Sections 29 and 30 respectively of the Indian Mines Act, 1923.	One of the accused was acquitted.

APPENDIX III—*concl'd.*

Statement of prosecutions under the Indian Mines Act, and Indian Penal Code, during the year 1928—*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.
Bombay . .	North Kanara . .	1	1	...	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	Case dropped
	Mergui . .	3	3	...	Regulation 3 (1) of the Indian Metalliferous Mines Regulations 1926.	Cases dropped as the accused could not be traced.
Burma . .	Tavoy . .	1	1	...	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	Case dropped.
	Thaton . .	1	1	1	Regulation 82 of the Indian Metalliferous Mines Regulations, 1926.	Case was withdrawn.
	Chhindwara . .	2	2	2	Section 26 of the Indian Mines Act, 1923.	
Central Provinces.	Do.	1	2	2	Regulations 67 and 69 of the Indian Coal Mines Regulations, 1926.	
	Nagpur . .	2	2	..	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	Cases dropped.
Madras . .	Nellore . .	6	7	6	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	One of the accused was acquitted.
Rajputana . .	Ajmer-Merwara . .	1	1	1	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	
	Banda . .	1	1	1	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	
United Provinces.	Hamirpur . .	14	14	13	Regulation 3 (1) of the Indian Metalliferous Mines Regulations, 1926.	One of the accused died.
	TOTAL . .	88	130	96		

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 1928.

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.
Beard, Arthur Andrew	337	31st January 1928	1338	4th February 1926.
Thomas, James	338	Ditto	2109	5th August 1927.
Mitter, Amor Narain	339	16th February 1928	2142	Ditto.
Burn, James Herbert	340	12th March 1928	784	11th August 1920.
Baillie, James Howieson	341	21st May 1928	2035	17th February 1927.
Cammack, Francis John	342	Ditto	2124	5th August 1927.
Baron, David William	343	Ditto	2012	17th February 1927.
Gow, Angus Gordon	344	29th November 1928	1503	7th February 1924.
(b) SECOND CLASS.				
Knight, George Vivian	28	29th November 1928	2200	8th August 1924.

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 1928—*contd.*

INDIA N CERTIFICATES.

(a) FIRST CLASS.

Name.	No. of certificate.	Date of certificate.	REMARKS.
Mullick, Surendra Nath	200	21st May 1928 .	

(b) SECOND CLASS.

Name.	No. of certificate.	Date of certificate.	REMARKS.
Bhattacharya, Prafulla Chandra	433	21st May 1928.	
Bhattacharya, Sudha Krishna	434	Ditto.	
Mukherjee, Ardhendu Sekhar	435	Ditto.	
Mitra, Durga Prasanna	436	Ditto.	
Ghosh, Nisanshu Sekhar	437	Ditto.	
Ghosh, Prafulla Kumar	438	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 1928.

Name.	No. of certificate.	Date of certificate.	REMARKS.
Burman, Kartic Chandra	27	19th February 1929.	
Roy, Siva Sankar	28	Ditto.	
Sarkar, Nripendra Nath	29	Ditto.	
Paul, Murari Dhar	30	Ditto.	
Datta, Anilendra Nath	31	Ditto.	
Bapat, Ananta Krishnashastry	32	Ditto.	
Dutt, Dakshina Ranjan	33	Ditto.	
Dutt, Sudhansu Kumar	34	Ditto.	
Bhattacharjee, Nalini Kanta	35	Ditto.	
Chakravarty, Kalijoy	36	Ditto.	
Banerjee, Dayamay	37	Ditto.	
Ghose, Ahi Bhusan	38	Ditto.	
Das, Aswini Kumar	39	Ditto.	
Sircar, Radha Raman	40	Ditto.	
Dey, Chinta Haran	41	Ditto.	
Mitra, Sreekantha	42	Ditto.	
Mukherjee, Nriitya Gopal	43	Ditto.	

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

Statement No. 3.

GOVERNMENT OF INDIA,

FOREIGN AND POLITICAL DEPARTMENT.

NOTIFICATION.

Dated Simla, the 16th May 1923.

No. 787-1429-I.—In exercise of the powers conferred by the Indian (Foreign Jurisdiction) Order in Council, 1902, and of all other powers enabling him in that behalf, the Governor-General in Council is pleased to direct that the following further amendments shall be made in the First Schedule to the notification of the Government of India in the Foreign Department No. 3510-I, B., dated the 3rd November 1913, applying certain enactments to Berar, namely :—

(a) Entry No. 84, relating to the Indian Mines Act, 1901 (VIII of 1901), and entry No. 90, relating to the Central Provinces Boiler Inspection Act, 1907 (II of 1907), shall be omitted.

(b) After entry No. 137 the following entries shall be inserted, namely :—

No. 138	.	.	.	The Indian Mines Act, 1923 (IV of 1923)	In clause (i) of Section 30, for the words "His Majesty" the words "The Government" shall be substituted.
No. 139	.	.	.	The Indian Boilers Act, 1923 (V of 1923).	
No. 140	.	.	.	The Workmen's Compensation Act, 1923 (VIII of 1923).	
No. 141	.	.	.	The Indian Finance Act, 1923	Only Section 6 and Schedule III are hereby applied.

J. P. THOMPSON,

Political Secretary to the Government of India.

APPENDIX IV—contd.

Miscellaneous—contd.

Statement No. 4.

GOVERNMENT OF INDIA,

DEPARTMENT OF INDUSTRIES AND LABOUR.

NOTIFICATION.

*Dated Delhi, the 23rd December 1926
as amended on 23rd November 1927
and 1st March 1928.*

No. M.-1051.—In exercise of the powers conferred by sub-section (1) of section 46 of the Indian Mines Act, 1923 (IV of 1923), and in supersession of the notifications by the Government of India in the Department of Industries and Labour, No. M.-1051, dated the 26th July 1924, No. M.-1051, dated the 25th July 1925, and No. M.-1051, dated the 7th November 1925, the Governor-General in Council is pleased to exempt the mines, groups of mines, classes of mines and parts of mines specified in the first column of the annexed schedule from the operation of such provisions of the said Act as are specified in the corresponding entry in the second column thereof.

Schedule.

- | | |
|---|------|
| 1. Mines of kankar, marum, laterite, gravel, sand, clay (not including kaolin, china clay or white clay), fireclay, ochre, stone, earth, fuller's earth, bauxite, slate and lime-stone : | All. |
| Provided that the depth of the excavation measured from the level of the adjacent ground nowhere exceeds 20 feet and that not more than 50 persons are employed at any one time in or about the mine : Provided further that this exemption shall not apply to— | |
| (a) Slate mines in the Province of the Punjab and in the Monghyr district of the province of Bihar and Orissa. | |
| (b) Limestone mines in the districts of Shahabad and Jubbulpore. | |
| (c) The Danapahari fireclay mine situate in Boujumerri village in the Asausol sub-division of the Burdwan district. | |
| 2. Borings and oil wells | All. |
| 3. Mines of parts of mines in which excavation is being carried out for prospecting purposes only and not for the purpose of obtaining minerals for use or sale. | All. |
| 3A. Iron ore mines worked without mechanical power, the whole of the ore from which is supplied locally to village smelters and blacksmiths. | All. |
| Provided that— | |
| (i) not more than 20 persons are employed in or about such excavation ; | |
| (ii) no part of the excavation extends beneath the superjacent ground ; and | |
| (iii) the depth of the excavation measured from the level of the adjacent ground nowhere exceeds 20 feet or, in the case of an excavation for coal, 50 feet. | |
| 4. The following mines in the North-West Frontier Province, namely :— | |
| (i) Salt mines in the Kohat district | All. |
| (ii) Carbonaceous clay pits in the Hazara district | All. |

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

GOVERNMENT OF INDIA,

DEPARTMENT OF INDUSTRIES AND LABOUR.

NOTIFICATION—*contd.*

5. The following mines in the Province of Burma, namely :—
- | | |
|--|---|
| (i) Steatite mines in the Kyaukpyn, Chin Hills and Minbu districts and the Pokokku Hill Tracts, and native precious stone mines in the Katha district. | All. |
| (ii) All mines in the Federated Shan States and such mines in the Tavoy and Mergui districts as are worked under the tribute system. | The provisions contained in sections 23 and 28. |
| (iii) The ore-dressing plant of the Burma Corporation, Ltd., at Namtu, Northern Shan States. | All. |
6. The following mines in the Provinces of Bihar and Orissa, namely :—
- | | |
|--|------|
| (i) The coke factory of the Burrakur Coal Co., Ltd., at Loyabad in the Manbhum district. | All. |
| (ii) The coke factory of the Barari Coke Co., Ltd., at Kendwadih in the Manbhum district. | All. |
| (iii) The coke factory of the Eastern Coal Co., Ltd., at Bhowra in the Manbhum district. | All. |
| (iv) The coke factory of the Lodna Colliery Co., Ltd., at Lodna in the Manbhum district. | All. |
| (v) The coke factory of the East Indian Railway Company at Giridih in the Hazaribagh district. | All. |
| (vi) Open excavations for coal in the Rajmahal coalfields in the district of the Santhal Parganas, provided that not more than 20 persons are employed in or about the mine at any one time. | All. |
7. The following mines in the United Provinces :—
- | | |
|---|------|
| (i) Stone quarry hill Tendua Nos. 37-1, 38-1, 38-4, 38-3, 29-3, and 33-1 at village Bargoh in the Mirzapore district. | All. |
| (ii) Stone quarry hill Darhia Nos. 343-3, 30, 181 and 182 at village Baragaun in the Mirzapore district. | All. |
8. The following mines in the Presidency of Bombay :—
- | | |
|--|------|
| (i) Kharkhada stone quarry in the Kaira district | All. |
|--|------|

A. C. MoWATERS,

Secretary to the Government of India.

APPENDIX IV—*contd.*

Miscellaneous—*contd.*

Statement No. 5.

NOTIFICATION.

Dated Lahore, the 27th March 1928.

No. 10742-Rev.—Ind.—In exercise of the powers conferred by section 18 of the Indian Mines Act, 1923, the Governor in Council is pleased to declare that the provisions of the said section shall apply to all coal mines and to mines other than coal mines in the Punjab at which more than 20 persons are employed.

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

Statement No. 6.

GOVERNMENT OF INDIA,
FOREIGN AND POLITICAL DEPARTMENT.

NOTIFICATION.

Dated Simla, the 2nd May 1928.

No. 257-I.—In exercise of the powers conferred by the Indian (Foreign Jurisdiction) Order in Council, 1902, and of all other powers enabling him in that behalf, the Governor-General in Council is pleased to direct that the following further amendment shall be made in the First Schedule to the notification of the Government of India in the Foreign Department, No. 3510-L. B., dated the 3rd November 1913, applying certain enactments to Berar, namely:—

In entry No. 138 relating to the Indian Mines Act, 1923 (IV of 1923), the modification set forth in the 2nd column shall be numbered (1) and after that modification as so numbered the following modification shall be inserted, namely:—

(2) After section 31, the following section shall be inserted, namely:—

“31-A. Notwithstanding anything contained in this Act, the Governor-General in Council may, by notification in the *Gazette of India*, apply to Berar any regulations under section 29 of the Indian Mines Act, 1923, for the time being in force in British India, subject to any amendments to which such regulations are for the time being subject in British India, and with such modifications or restrictions as may be specified in the notifications, and any regulations so applied shall have effect in Berar as if made under this Act.”

C. C. WATSON,

Political Secretary to the Government of India.

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

Statement No. 7.

GOVERNMENT OF INDIA.
FOREIGN AND POLITICAL DEPARTMENT.

NOTIFICATION.

Dated Simla, the 22nd August 1928.

No. 489-I.—In exercise of the powers conferred by section 31-A of the Indian Mines Act, 1923 (IV of 1923), as applied to Berar, the Governor-General in Council is pleased to apply to Berar the Indian Coal Mines Regulations, 1926, with the following modifications namely :—

- (1) The references to enactments in Regulations 2 (a), 10, 97 and 105 shall be read as referring to the enactments as applied to Berar.
- (2) In Regulation 26, the proviso shall be omitted.
- (3) In sub-regulation (2) of Regulation 30, for the words 'British India' the word 'Berar' shall be substituted.
- (4) In sub-regulation (4) of Regulation 31, for the words 'uniform throughout British India' the words 'the same as in British India' shall be substituted.
- (5) In sub-regulation (5) of Regulation 31, the words and figures, 'and, 'except as regards examinations held before the 1st day of March 1927', shall be omitted.
- (6) In sub-regulation (2) of Regulation 48, for the word and figures 'October 1927' the word and figures 'October 1929' shall be substituted.
- (7) In sub-regulation (6) of Regulation 50, the words and figures 'on or after the 1st day of January 1927' shall be omitted.
- (8) In Regulation 52, after the figures '1901' the words 'as in force in British India or under that Act as applied to Berar' shall be inserted.
- (9) In Regulation 58 the words and figures "The provisions of this clause shall not come into force until the last day of October 1927" shall be omitted.
- (10) In sub-regulation (1) of Regulation 71, the words and figures 'with effect from the 1st day of January 1927' shall be omitted.
- (11) In regulation 136, for the words and figures 'the 1st day of July 1927' the words and figures 'the 22nd day of August 1929' shall be substituted.

B. J. GLANCY,

(Offg.) Political Secretary to the Government of India.

APPENDIX IV—*contd.*

Statement No. 8.

ACT No. XIII OF 1928.

[PASSED BY THE INDIAN LEGISLATURE.]

(Received the assent of the Governor General on the 20th September 1928.)

An Act further to amend the Indian Mines Act, 1923, for certain purposes.

WHEREAS it is expedient further to amend the Indian Mines Act, 1923, for certain purposes; It is hereby enacted as follows:—

1. *Short title and commencement.*—(1) This Act may be called the Indian Mines (Amendment) Act, 1928.

(2) This section and section 7 shall come into force at once, and the remaining provisions of this Act shall come into force on the 7th day of April 1930.

2. *Amendment of section 23, Act IV of 1923.*—In section 23 of the Indian Mines Act, 1923 (hereinafter referred to as the said Act),—

(a) after clause (c) the following clause shall be inserted, namely:—

“(d) for more than twelve hours in any consecutive period of twenty-four hours”; and

(b) the section as so amended shall be numbered as sub-section (1), and the following sub-section shall be added, namely:—

“(2) No person shall employ or permit to be employed in a mine any person whom he knows or has reason to believe to have already been employed in any other mine during the preceding twelve hours.”

3. *Insertion of new sections 23A and 23B in Act IV of 1923.*—After section 23 of the said Act the following sections shall be inserted, namely:—

“23A. *Limitation of working hours.*—Work shall not be carried on in any mine for a period exceeding twelve hours in any consecutive period of twenty-four hours except by a system of shifts so arranged that not more than one shift of persons employed in work of the same kind shall be at work in the mine at the same time.

23B. *Notices regarding hours of work.*—(1) The manager of every mine shall cause to be posted outside the office of the mine a notice in the prescribed form stating the time of the commencement and of the end of the work at the mine and, if it is proposed to work by a system of shifts, the time of the commencement and of the end of work for each shift. A copy of each such notice shall be sent to the Chief Inspector, if he so requires.

(2) In the case of a mine at which mining operations commence after the 14th day of April 1930, the notice referred to in sub-section (1) shall be posted not less than seven days before the commencement of work.

(3) Where it is proposed to make any alteration in the time fixed for the commencement or for the end of work in the mine generally or for any shift, an amended notice in the prescribed form shall be posted outside the office of the mine not less than seven days before the change is made, and a copy of such notice shall be sent to the Chief Inspector not less than seven days before such change, if he so requires or if the original notice was sent to him.”

4. *Amendment of sections 24 and 25, Act IV of 1923.*—In sections 24 and 25 of the said Act, after the word and figures “section 23” the words, figures and letter “or section 23A” shall be inserted.

APPENDIX IV—*contd.*Statement No. 8—*contd.*ACT No. XIII OF 1928—*contd.*

5. *Amendment of section 28, Act IV of 1923.*—(1) Section 28 of the said Act shall be re-numbered as sub-section (1) of section 28, and to that sub-section after the word "employments" the following shall be added, namely:—

"and, where work is carried on by a system of shifts, of the shift in which each such person works."

(2) To the same section the following sub-section shall be added, namely:—

"(2) No person shall be employed in a mine until the particulars required by sub-section (1) have been recorded in the register in respect of such person, and no person shall be employed except during the hours of work specified for him in the register."

6. *Amendment of section 30, Act IV of 1923.*—In section 30 of the said Act, after clause (e) the following clause shall be inserted, namely:—

"(c) for prescribing the forms of notices required under section 23B, and for requiring such notices to be posted also in specified vernaculars,"

7. *Amendment of section 31, Act IV of 1923.*—In section 31 of the said Act,—

(a) in sub-section (3), the words "or rule", in both places, where they occur, the words "in the case of a regulation", and the words "and in the case of a rule to every Mining Board constituted in the province" shall be omitted; and

(b) after sub-section (3) the following sub-section shall be inserted, namely:—

"(3A) No rule shall be made unless the draft thereof has been referred to every Mining Board constituted in the province for which it is proposed to make the rule, and unless each such Board has had a reasonable opportunity of reporting as to the expediency of making the same and as to the suitability of its provisions."

APPENDIX IV—*contd.*

Statement No. 9.

THE INDIAN MINES ACT, 1923.

Bye-laws Applying to Coal Mines

DEFINITIONS.

Bye-law 1.—In these bye-laws :—

- (a) " The Act " means the Indian Mines Act, 1923 ;
- (b) " Regulation " means any regulation for the time being in force under section 29 of the Act ;
- (c) " Rule " means any rule for the time being in force under section 30 of the Act ;
- (d) " Persons " means any persons employed in or about a mine ;
- (e) " Manager " means the persons referred to as " manager " in section 15 of the Act ;
- (f) " Under-manager " means a person appointed to assist the manager in the control, management and direction of the mine, and who takes rank immediately after the manager ; and
- (g) " Official " or " officer " means any person employed in or about a mine, other than the manager or under-manager, to whom the manager or under-manager may entrust any duties of control, management or superintendence.

GENERAL.

(a) *Miscellaneous.*

Bye-law 2.—Subject to any directions that may be given by any official of the mine, no person shall, except for some justifiable purpose, go into any part of the mine other than that part in which he works, or travel to or from his work by any road other than the proper travelling road.

Bye-law 3.—No unauthorised person shall work or interfere with any signalling apparatus in or about the mine.

Bye-law 4.—No person shall attempt to go on or across the exposed space of the shaft bottom, except for the purpose of working in the shaft bottom, and no person shall be allowed to work in such space unless the cages have been stopped and adequate precautions have been taken for the protection of persons so employed.

Bye-law 5.—Every workman receiving in or about the mine any personal injury shall, as soon as possible, report the same to one of the officials, and if required by the official shall forthwith proceed to the appointed place for first-aid treatment.

Bye-law 6.—Every official of the mine shall carry out the duties assigned to him by the manager, and shall carry out and enforce those provisions of the Act and of the regulations, rules and bye-laws made thereunder which relate to the matters in respect of which such duties have been so assigned.

Bye-law 7.—Every person appointed by the manager to be an official of the mine, shall to the best of his power see that the persons under his charge understand and attend to their respective duties.

Bye-law 8.—No person shall throw any stone or other missile with intent to cause injury or, fight or behave in a violent manner, in or about a mine.

Bye-law 9.—No person who has been appointed by the manager in writing for a specific duty shall, without permission from an official to whom he is subordinate, perform either during his period of work or between successive periods of work any duties other than those for which he has been appointed in such position of trust.

Bye-law 10.—No person shall light a fire in any underground part of a mine except for a special purpose in accordance with orders issued by the manager.

APPENDIX IV—*contd.*Statement No. 9—*contd.*THE INDIAN MINES ACT, 1923.—*contd.*Bye-laws Applying to Coal Mines—*contd.*GENERAL—*contd.*(a) *Miscellaneous.*—*contd.*

Bye-law 11.—No unauthorised person shall travel on the haulage road when the rope is in motion.

Bye-law 12.—No person when taking a tub by hand down an incline of which the gradient exceeds 1 in 20 shall go in front of the tub; and in every case where the conditions are such that a person cannot control the tub by hand from behind he shall not take the tub down unless some contrivance is provided to enable him to control the tub.

Bye-law 13.—No person shall clean or lubricate any exposed and dangerous part of machinery in motion.

Bye-law 14.—No unauthorised person shall enter a winding or haulage engine room, or in any way interfere with the engine.

(b) *Explosives and Short-firing.*

Bye-law 15.—All persons using or conveying explosives shall observe the provisions of the regulations and bye-laws relating to explosives.

Bye-law 16.—In any underground working place or sinking shaft only those holes which are to be fired in the next round shall be charged.

Bye-law 17.—When a shot has misfired the person who lighted the shot, or, if present, the official of the mine superior to him shall be responsible for seeing that the place is fenced as required by Regulation 118.

Bye-law 18.—Where by reason of a misfire having occurred it is necessary to bore a new hole for the purpose of blasting out the undischarged explosive the shot-firer or the person who charged the hole in which the misfire occurred shall supervise the placing of the new hole.

Bye-law 19.—When a misfire charge of explosive has been blasted out the person who fired the shot or a competent person appointed by the overman, under-manager or manager for the purpose shall see that a careful search is made in the debris for unexploded cartridges and detonators, in accordance with Regulation 120.

(c) *Safety Lamps.*

Bye-law 20.—Every safety lamp for use in the mine shall be provided by the owner, and shall be of a type approved in Great Britain or by the Chief Inspector.

Bye-law 21.—Where the use of safety lamps has been ordered by the manager no lamp or light other than a locked safety lamp shall be used.

Bye-law 22.—No person shall brush or waft out gas.

Bye-law 23.—Should any person find himself in the presence of inflammable gas, he shall not throw away his lamp or attempt to blow it out, but shall shelter it, hold the lamp near the floor, avoid jerking it, and take it steadily into fresh air. If the gas fires in the lamp where he cannot take it into fresh air, he shall smother out the light or extinguish it in water.

Bye-law 24.—No person shall when trying or examining for the presence of gas with a safety lamp, raise the lamp higher than may be necessary to allow the presence of gas to be detected.

Bye-law 25.—Every person using a safety lamp shall take proper care of it and shall not place it within reach of the swing of any tool. If the lamp becomes damaged he shall at once extinguish the flame, and at the first opportunity shall report the damage to the overman or sirdar.

Bye-law 26.—The competent person or persons appointed by the manager shall maintain the register of safety lamps required by Regulation 126.

Bye-law 27.—The competent person appointed by the manager under Regulation 127 (a) shall not issue any safety lamp until he has examined it and found it to be in safe working order and securely locked.

APPENDIX IV—*contd.*Statement No. 9—*contd.*THE INDIAN MINES ACT, 1923—*contd.*Bye-laws Applying to Coal Mines—*contd.*

MANAGERS.

Bye-law 28.—The manager shall see that a copy of these bye-laws and copies of the prescribed abstracts of the Act, Regulations and Rules, in English and such vernaculars as may be prescribed, are kept posted up at or near the mine.

Bye-law 29.—The manager shall see that every notice required by the Regulations or Rules to be posted up is posted up in some conspicuous place where it may be conveniently read or seen by the persons affected. Such notice shall be constructed of durable material and so often as it becomes defaced, obliterated or destroyed, shall be renewed with all reasonable despatch.

Bye-law 30.—The manager or under-manager shall countersign each report of inspection required to be made by the Act or by any regulation, rule or bye-law made under the Act, and shall date his countersignature.

Bye-law 31.—The manager shall arrange that some person in authority shall be constantly present in every underground mine during the whole of the time that persons are employed in mining, carrying or tramping coal in such mine.

UNDER-MANAGERS.

Bye-law 32.—The under-manager shall have charge, under the manager, of such underground and surface works as may, from time to time, be placed under his supervision by the manager.

Bye-law 33.—The under-manager shall see that the persons appointed to carry out the requirements of the Act or of any regulations, rules or bye-laws framed thereunder regularly and efficiently discharge their duties.

Bye-law 34.—During the absence of the manager the under-manager shall (so far as the Act or any regulations or rules framed thereunder may permit) have the same responsibility, discharge the same duties, and be subject to the same liabilities as the manager, but not so as to affect the personal responsibility of the manager.

COLLIERY SURVEYERS.

Bye-law 35.—The colliery surveyor shall make such accurate surveys and levellings as the manager may direct or as may be required by the Act or by regulations or rules framed under the Act and shall accurately plot them on the plans with reasonable despatch.

Bye-law 36.—The colliery surveyor shall call the attention of the manager to any contravention of the Act or of the regulations or rules framed under the Act, as regards plans and sections.

OVERMEN AND OTHER COMPETENT PERSONS.

Bye-law 37.—The overman, sirdar or other competent person appointed under Regulation 70 shall have responsible charge and control of the part of the mine assigned to him by the manager or under-manager.

Bye-law 38.—The overman, sirdar or other competent person shall in the district of the mine assigned to him make the inspections and reports required by Regulation 70, and shall to the best of his power see that the workmen under his charge understand and carry out their respective duties under the Act, and the regulations, rules and bye-laws made thereunder, and any directions with a view to safety which may be given to them.

Bye-law 39.—The overman, sirdar or other competent person appointed for the purpose, shall see that sufficient supplies of timber, appliances and other necessities, required for the safe working of the mine, are kept in convenient places at the mine, and shall report any deficiency therein to his superior officer.

APPENDIX IV—*contd.*Statement No. 9—*contd.*THE INDIAN MINES ACT, 1923—*contd.***Bye-laws Applying to Coal Mines—*contd.***

Bye-law 40.—The overman, sirdar or other competent person appointed for the purpose, shall see that all stoppings brattices, doors, air-crossings, fences and other appliances and necessaries are maintained in good condition.

Bye-law 41.—The overman, sirdar or other competent person appointed for the purpose shall take care that any dangerous operation is carried out with due precaution, and shall, if necessary, cause the place where such work is going on to be fenced. He shall further cause the entrance to any place which is dangerous or not in actual use or in course of working and extension to be properly fenced across the whole width.

Bye-law 42.—The overman, sirdar or other competent person appointed for the purpose, shall see that the roofs and sides of all travelling roads and working places in his district are made and kept secure.

Bye-law 43.—The overman, sirdar or other competent person appointed for the purpose, shall see that the man-holes on the engine-planes are kept clear and in good condition.

Bye-law 44.—The overman, sirdar or other competent person appointed for the purpose shall without delay, personally inspect any part of his district reported to him to be unsafe or in any way requiring his attention, and shall cause any defect or danger to be remedied without delay and if the danger cannot be remedied forthwith shall stop all work, cause the place to be fenced off and report the matter to a superior official.

Bye-law 45.—If the overman, sirdar or other competent person finds any dangerous accumulation of gas, he shall carry out the provisions of Regulation 72 and shall at once report the fact to the manager or under-manager or, in their absence to the officer in charge of the mine, and shall not remove such accumulation until he has received instructions in that behalf from one or other of these persons.

Bye-law 46.—The overman, sirdar or other competent person appointed for the purpose, shall see that drags or back-stays are provided and regularly used behind tubs ascending inclines, and that a sufficient supply of suitable sprags is provided where tubs are loaded on a gradient or lowered down a gradient by hand.

Bye-law 47.—The overman, sirdar or other competent person appointed for the purpose, shall point out their working place to the work-people under his charge, or cause the same to be indicated to them, and, if he finds any person in a place other than the one assigned to him, may order such person out of the mine and shall forthwith report the matter to the manager or under-manager.

Bye-law 48.—The overman, sirdar or other competent person appointed for the purpose, shall not leave the mine until he has finished the inspection or inspections required by Regulation 70, and any other duties he is required by any regulation, rule or bye-law to perform or until relieved by a duly appointed substitute.

Bye-law 49.—The overman, sirdar or other competent person appointed for the purpose, shall see that the provisions of the regulations and bye-laws with respect to the use of explosives are strictly observed in the district under his charge and that a sufficient supply of clay or other suitable stemming material is provided at places convenient to the shot-firers.

Bye-law 50.—At the close of each day's work the overman, sirdar or other competent person appointed for the purpose, shall ordinarily not permit any person to remain in that portion of the mine of which he is in charge; but, should it be necessary for any such person to be detained there, he shall arrange that he is placed in charge of a competent person, and shall cause all unnecessary lights to be extinguished.

Bye-law 51.—If the mine is worked by a succession of shifts the overman or sirdar shall not leave the mine without conferring with the official succeeding him, and shall give him such information as may be necessary for the safety of his district and of the persons employed therein.

Bye-law 52.—If any case of damage to a safety lamp in his district is reported to the overman or sirdar or comes to his notice, he shall ascertain and record in his report the cause and nature of the damage.

APPENDIX IV—*contd.*Statement No. 9—*contd.*THE INDIAN MINES ACT, 1923—*contd.*Bye-laws Applying to Coal Mines—*contd.*

Bye-law 53.—When brattice or air pipes are required by the manager or under-manager to be used for the ventilation of the working places the overman or sirdar shall see that they are kept sufficiently advanced to ensure that an adequate amount of air reaches the working places.

Bye-law 54.—If the overman, sirdar or other competent person finds any of the ropes, chains, signals, brakes, jig wheels and posts, or other apparatus in actual use in his district to be in an unsafe condition, he shall stop the use of the same.

Bye-law 55.—The overman, sirdar or other competent person shall have power to send out of the mine any work-persons under his charge infringing or attempting to infringe any provision of the Act or regulations, rules or bye-laws made thereunder or failing to carry out any direction given him with regard to safety, and shall report in writing any such infringement or attempted infringement or failure to the manager or under-manager at the end of his shift.

Bye-law 56.—The overman, sirdar or other competent person shall on receipt of notice of an accident to any person in his district proceed at once to the place of accident, inspect the place, supervise the rescue operations and report or send notice of the accident to the manager.

TIMBERMEN.

Bye-law 57.—All timbermen shall promptly carry out the orders of the overman, sirdar or other competent person with respect to the provision, preparation and erection of timber.

Bye-law 58.—The head timberman shall at once report to the overman, sirdar or other competent person, any shortage of timber in any place where such is required.

MECHANICAL ENGINEER OR ENGINE-WRIGHTS.

Bye-law 59.—The mechanical engineer or engine-wright or some other competent person appointed for the purpose shall have charge of the whole of the machinery and plant, both on surface and underground.

Bye-law 60.—The mechanical engineer or engine-wright, or some other competent person appointed for the purpose, shall make the inspections; carry out the operations and record the reports required by regulations 58(1) and 68, and bye-laws 62 and 64, and shall sign each report.

Bye-law 61.—The mechanical engineer or engine-wright, or some other competent person appointed for the purpose shall see that all fittings and mechanical appliances required by the Act or by any regulation or bye-law made under the Act, and all machinery and haulage apparatus are properly fixed and maintained in safe working order, and shall once at least in every 24 hours make a thorough inspection of the same and record the result thereof in a book to be kept for the purpose.

Bye-law 62.—The mechanical engineer or engine-wright, or some other competent person appointed for the purpose shall see that all dangerous and exposed parts of the machinery and all dangerous places on the surface, as also the heads of working, ventilating or pumping shafts are properly and securely fenced.

Bye-law 63.—The mechanical engineer or engine-wright, or some other competent person appointed for the purpose shall see that the fittings on every boiler are properly fixed, and maintained in proper repair and in safe working order, as required by the Indian Boiler Regulations.

Bye-law 64.—The mechanical engineer or engine-wright, or some other competent person appointed for the purpose, shall, at least once in every month, examine the state of all coupling chains and drawbars in actual use, and shall record the result of his inspection in a book to be kept for the purpose.

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ELECTRICIANS.

Bye-law 65.—The electrician shall, so far as it lies within his power and authority, be responsible for the installation and maintenance of the electrical plant and apparatus at the mine in accordance with the requirements of the electrical rules.

Bye-law 66.—The electrician shall take immediate steps to remedy any defect or derangement of any electrical apparatus, which causes or is likely to cause danger, or any infringement of the electrical rules.

Bye-law 67.—The electrician shall make arrangements for the instruction in their duties, and in so much of the electrical rules as may be applicable to them, of all persons having to work, use, clean, instal or otherwise handle electrical plant or apparatus at the mine.

WINDING ENGINEEMEN.

Bye-law 68.—Before commencing work the winding enginemman shall examine the engines and all appliances in his charge, and shall satisfy himself that they are in proper working order.

Bye-law 69.—In any mine, where the winding apparatus is not provided with some automatic contrivance to prevent overwinding, the winding enginemman shall not—if any persons are being raised or lowered in a shaft—wind up the cage, skip, bucket or tub at a speed exceeding three miles an hour after it has passed the point referred to in Regulation 65.

Bye-law 70.—The winding enginemman shall not allow any unauthorised person to enter the engine-house or in any way to interfere with the engine.

Bye-law 71.—The winding enginemman shall thoroughly acquaint himself with, and carefully attend to, the signals in use, and shall on no account start his engine until he has received the proper signal. If the signal is indistinct, he shall not start his engine until it has been repeated and he clearly understands it.

Bye-law 72.—The winding enginemman shall not leave the handles or brake whilst the engine is in motion, or while persons are suspended by the rope attached to the engine, or while persons are working in any part of the shaft.

Bye-law 73.—If the cage or bucket has been standing for two hours or longer, the winding enginemman shall, on receiving a signal from the banksman, run it up and down the shaft once, before allowing any person to ride therein.

Bye-law 74.—The winding enginemman shall report immediately to the mechanical engineer or engine-wright or other official of the colliery to whom he is subordinate, any defect which he has noticed in the engine, brake, indicator, drum, ropes or other appliances under his charge.

BANKSMEN AND ONSETTERS.

Bye-law 75.—Subject to the orders of a superior official, the banksman and the onsetter shall have full control of the pit-head and pit-bottom, respectively, and shall report to such official any person who, without authority, gives a signal or disobeys instructions.

Bye-law 76.—The banksman and the onsetter shall thoroughly acquaint themselves with, and carefully attend to, the prescribed code of shaft signals, and shall properly transmit the signals by the apparatus provided.

Bye-law 77.—The banksman and the onsetter shall not allow more than the authorised number of persons to ascend or descend at any one time.

Bye-law 78.—The banksman and the onsetter shall not, unless specially authorised by the manager in that behalf, ordinarily allow any person, when ascending or descending the shaft, to take with him any tools or other bulky materials, save when such person is engaged in repairing the shaft.

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Provided that, by general order of the manager, the banksman and the onsetter may permit tools to be so carried.

Bye-law 79.—During their periods of duty the banksman and the onsetter shall not leave their respective posts at the pit-head or pit-bottom.

Bye-law 80.—The banksman shall on the termination or suspension of operations, take care that the top of the shaft is securely covered or fenced.

Bye-law 81.—The banksman shall keep the pit-head or banking stage and the cage free from loose materials likely to fall into the shaft.

Bye-law 82.—When persons are about to ride in the cage the banksman or onsetter, as the case may be, shall see that the cage gates on both sides of the cage are in position and closed, before signalling for the cage to be lowered or raised.

Bye-law 83.—Except as provided in bye-law 78 the banksman or onsetter shall not allow any minerals, tubs, tools or materials to be wound in any cage or bucket whilst persons are being raised or lowered in the shaft.

HAULAGE ATTENDANTS.

Bye-law 84.—Every engineman, brakesman and signaller shall thoroughly acquaint himself with, and carefully attend to, the prescribed code of signals.

Bye-law 85.—The person in charge of any tub or set of tubs, which it is intended to send up any underground engine-plane or incline on which drags are required to be used, shall securely fix the drag, or cause it to be so fixed, before such tub or set of tubs is set in motion.

Bye-law 86.—The person in charge at the top of any self-acting incline or engine-plane shall see that the stop-blocks are blocking the way before allowing any tub to be brought on to the top landing, and shall cause the tubs to be securely coupled up to each other, and to the rope or chain, before the stop-block is opened; and, should any safety appliance be provided, he shall cause the same to be properly and securely fixed and brought into use on each occasion.

Bye-law 87.—The person who is responsible for the attachment to the hauling rope of any tub or set of tubs at any stopping place on any underground haulage plane or self-acting incline shall see that no person remains in a position of danger at or near such stopping place during any period in which a tub or tubs may be raised or lowered on the haulage plane.

Bye-law 88.—Before a train of wagons is set in motion the person in charge shall see that the safety catches of all side-tipping wagons are properly secured.

PERSONS EMPLOYED IN MACHINE COAL CUTTING.

Bye-law 89.—No coal cutting machine shall be fitted or otherwise moved with the cutting tool in motion, except in the actual process of cutting. If the cutting tool cannot be locked out of gear securely, it should be removed.

Bye-law 90.—No person shall make any repairs or adjustments to a coal cutting machine or shall put in or take out a pick until he has made such arrangements as will prevent the mechanism being inadvertently put into motion while such operation is being performed.

Bye-law 91.—No person shall open or replace the cover of any electrical part of a coal cutting machine, except under the supervision and in the presence of a person competent for the purpose appointed in writing by the manager. Before any such cover is opened the said competent person shall ensure that current is cut off at the gate-end or other convenient switch out by therefrom, by turning the switch into the off position and keeping it there so long as the

APPENDIX IV—*contd.*Statement No. 9—*contd.*THE INDIAN MINES ACT, 1923—*contd.*Bye-laws Applying to Coal Mines—*contd.*

cover remains open; and the trailing cable shall be disconnected from the machine and from the gate-end box before the work is begun, and shall remain disconnected until the work has been satisfactorily completed.

Bye-law 92.—Where a machine is required to work on a gradient exceeding 1 in 5 an effective contrivance to prevent the machine running back shall be provided.

COLLIERY LOCOMOTIVE DRIVERS AND SHUNTERS.

Bye-law 93.—The locomotive driver shall sound the whistle when the locomotive is approaching a level crossing or any place where any person is at work or where the driver's sight is intercepted.

Bye-law 94.—When wagons are being pushed in front of the locomotive the shunter shall accompany the leading wagon.

REGISTER CLERKS.

Bye-law 95.—Persons appointed to keep registers required by or under the Indian Mines Act or the regulations, rules and bye-laws made thereunder shall regularly make the necessary entries.

ADDITIONAL BYE-LAWS FOR SINKING SHAFTS.

SIGNALS.

Bye-law 96.—The code of signals shall be—

	Raps.
Stop when running	1
Lower	2
Stretch up	1
Raise after bucket has been steadied	1
Stretch up when men are riding	3

Any other signals shall be in addition to and shall not interfere with the foregoing:

Provided that the Chief Inspector by order in writing may, at his discretion, permit the use of a different code of signals.

MANAGER.

Bye-law 97.—Every cradle or platform on which men work in the shaft shall be so constructed as to minimise the risk of a person falling from it.

CHARGE MAN.

Bye-law 98.—The chargeman in each shift shall have entire charge of the shaft-bottom.

Bye-law 99.—After each round of shots has been fired the chargeman shall carefully examine the sides of the shaft and remove all loose pieces. If no shots have been fired, he shall make an examination at least once during his shift.

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Bye-law 100.—The chargeman shall see that each bucket is safely loaded and steadied, that it is not loaded above the top and that nothing is adhering to the outside of such bucket when it is set in motion from the bottom of the shaft.

Bye-law 101.—The chargeman shall see that all tools and other bulky gear are securely tied to the bow-chains or rope, when such tools of gear project beyond the rim of the bucket, and shall not permit the bucket to be set in motion until this has been done.

Bye-law 102.—After any cessation of work in the shaft caused by the withdrawal of the workmen for shot-firing or other purposes the chargeman, accompanied, if necessary, by not more than three other persons, shall descend and examine the shaft. If inflammable gas has been found or is likely to be found in the shaft the examination shall be made with a locked safety lamp of an approved type. No other person shall be allowed to descend the shaft until after the examination has been made and the shaft has been found to be safe in all respects.

WINDING ENGINEERMAN.

Bye-law 103.—The winding engineman shall allow the rope to steady before the bucket or load leaves the top or bottom of the shaft, and shall not lower the descending bucket past a point 18 feet from the shaft bottom until he receives a signal to do so from the banksman; and shall stop the ascending bucket when it has been raised 4 feet from the shaft bottom to allow the bucket to be steadied.

BANKSMAN.

Bye-law 104.—The banksman shall tie and carefully secure in the bucket all sinking tools, timber or other bulky gear which may project beyond the rim thereof, and, when bricks or other loose materials are sent down the pit, shall not permit them to be loaded beyond the level of the top of the bucket.

Bye-law 105.—The banksman shall, when landing the bucket or materials, take care that the shaft-top is securely covered or fenced.