

Department of Mines, India

REPORT

OF THE

CHIEF INSPECTOR OF MINES IN INDIA

UNDER THE INDIAN MINES ACT (VIII OF 1901)

FOR THE YEAR ENDING

31st December 1918

BY

G. F. ADAMS, M. Inst. C. E.

Chief Inspector of Mines in India



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APPENDIX I.

STATISTICS OF MINES AND MINERALS.

Table No. 1.

Number of mines regulated by the Indian Mines Act, 1901, number of workers and output of minerals, during the year 1918.

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.		NUMBER OF MINES INSPECTED DURING THE YEAR.		TOTAL OUTPUT.	AVERAGE NUMBER OF PERSONS EMPLOYED DAILY IN AND ABOUT THE MINES.								
			Worked by mechanical power.	Not worked by mechanical power.	Number of mines inspected.	Number of inspections.		BELOW GROUND.				ABOVE GROUND.				Grand total below and above ground.
								Adult males.	Adult females.	Children (under 12).	Total below ground.	Adult males.	Adult females.	Children (under 12).	Total above ground.	
Assam	Lakhimpur	6	4	2	7	11	267,749	1,586	174	...	1,760	579	203	75	857	2,617
	Naga Hills	2	...	2	1	2	21,299	162	1	1	164	179	25	2	206	370
	Sibsagar	1	...	1	1	1	1,827	31	1	...	32	34	2	...	36	68
	TOTAL	9	4	5	9	14	293,875	1,779	176	1	1,956	792	230	77	1,099	3,055
Baluchistan	Kalat	5	...	5	...	...	4,511	57	...	...	57	21	...	...	21	78
	Loralai	1	...	1	...	...	149	15	...	...	15	5	...	...	5	20
	Quetta-Pishin	13	...	13	...	...	8,865	79	...	...	79	45	...	...	45	124
	Sibi-Khost	10	2	8	...	...	29,660	410	...	...	410	348	2	11	361	771
TOTAL	29	2	27	...	...	43,125	561	...	...	561	419	2	11	432	903	
Bengal	Bankura, Raniganj	3	...	3	...	...	6,262	34	23	...	57	41	25	1	67	124
	Burdwan "	4	...	4	...	...	2,950	43	25	3	71	11	57	...	68	139
	Burdwan "	193	153	49	128	256	5,293,983	18,028	10,838	170	29,036	10,643	5,562	345	16,820	45,886
	TOTAL	200	153	47	128	256	5,302,295	18,165	10,866	173	29,164	10,695	5,941	346	16,985	46,149

APPENDIX I—contd.

STATISTICS OF MINES AND MINERALS—contd.

Table No. 1—contd.

Number of mines regulated by the Indian Mines Act, 1901, number of workers and output of minerals, during the year 1918—contd.

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.		NUMBER OF MINES INSPECTED DURING THE YEAR.		TOTAL OUTPUT.	AVERAGE NUMBER OF PERSONS EMPLOYED DAILY IN AND ABOUT THE MINES.								Grand total below and above ground.	
			Worked by mechanical power.	Not worked by mechanical power.	Number of mines inspected.	Number of inspections.		BELOW GROUND.				ABOVE GROUND.					
								Adult males.	Adult females.	Children (under 12).	Total below ground.	Adult males.	Adult females.	Children (under 12).	Total above ground.		
Bihar and Orissa .	A.—COAL—contd.																
							Tons.										
	Hazaribagh	Bokaro-Ramgarh	12	2	10	1	1	511,422	2,402	1,962	48	4,412	1,282	1,506	24	2,812	7,221
		Giridih . . .	10	4	6	10	18	846,592	4,432	1,920	3	6,355	2,259	741	2	3,003	9,357
		Jharia . . .	5	4	1	17	18	189,212	492	291	4	787	359	264	17	640	1,427
	Manbhum	Jharia . . .	324	167	157	165	382	10,761,818	29,372	24,178	295	53,845	21,664	10,697	1,465	33,736	87,581
		Raniganj . . .	86	12	74	43	55	1,056,907	3,646	2,187	21	5,851	2,454	1,400	153	4,007	9,861
		Palamau, Daltonganj . . .	1	1	...	...	...	81,816	282	161	42	485	248	65	50	363	848
		Sambalpur, Hingir-Rampur . . .	3	2	1	1	1	51,038	331	180	...	511	142	88	...	230	741
	Sonthal Parganas.	Jainty . . .	4	2	2	3	4	137,464	303	388	...	691	428	24	65	697	1,388
Raniganj . . .		6	...	6	...	...	9,317	77	46	...	123	40	59	1	100	223	
	TOTAL . . .	451	104	257	240	429	13,675,616	41,337	31,313	413	73,063	28,876	14,934	1,777	45,587	118,650	
Central Provinces	Chanda, Ballarpur . . .	5	5	...	3	5	135,375	857	164	...	1,021	627	140	13	780	1,801	
	Chhindwara, Pench Valley . . .	10	7	3	8	17	267,303	1,361	580	59	2,000	447	229	64	740	2,749	
	Narsinghpur, Mohpani . . .	1	1	...	1	3	78,792	661	325	...	926	514	68	...	582	1,598	
	Yeotmal . . .	1	1	...	...	...	...	...	...	...	...	3	...	...	3	3	
	TOTAL . . .	17	14	3	12	25	481,470	2,819	1,069	59	3,947	1,591	437	77	2,106	6,052	

North-West Frontier Province.	Hazara	1	...	1	...	...	240	7	...	...	7	5	...	...	5	12
Panjab	Jhelum	7	...	7	...	...	59,651	725	3	35	763	402	...	16	418	1,181
	Mianwali	2	...	2	...	...	5,152	40	...	...	40	9	...	...	9	40
	Shahpur	3	...	3	...	...	5,615	60	...	...	60	68	...	...	68	128
	TOTAL	12	...	12	...	...	50,418	825	3	35	863	479	...	16	495	1,358
GRAND TOTAL (COAL) FOR 1918		719	367	352	389	724	19,847,039	65,433	43,447	661	109,561	42,857	21,547	2,304	66,708	176,269
	" " OF PRECEDING YEAR	694	352	342	506	669	17,326,384	56,782	37,703	665	95,150	38,105	18,153	2,275	58,533	153,683
	DIFFERENCE	+25	+15	+10	-117	-145	+2,520,655	+8,651	+5,744	+16	+14,411	+4,752	+3,394	+29	+8,175	+22,586
Bihar and Orissa							B.-MICA.									
							Cwts.									
	Bhagalpur	2	...	2	...	...	3	5	3	...	8	...	...	...	...	8
	Gaya	55	6	40	...	...	6,855	980	502	207	1,680	268	216	124	638	2,327
	Hazaribagh	425	50	375	1	1	28,836	6,079	2,578	1,200	9,866	2,601	1,651	1,311	5,563	15,429
	Manbhum	1	...	1	...	...	21	8	5	...	13	5	4	...	9	22
	Monghyr	26	12	14	...	...	8,419	1,845	223	14	2,082	378	512	430	1,350	3,432
Sambalpur	1	...	1	...	...	86	45	95	6	146	...	...	...	...	146	
TOTAL	510	68	412	1	1	41,220	8,962	3,406	1,136	13,804	3,252	2,413	1,865	7,560	21,364	
Madras	Nellore	84	9	75	54	56	6,108	1,640	902	108	2,650	402	324	174	900	3,550
	Salem	3	...	3	3	3	280	75	...	...	55	60	81	17	158	213
	TOTAL	87	9	78	57	59	6,388	1,695	902	108	2,705	462	405	191	1,058	3,763

APPENDIX I—contd.

STATISTICS OF MINES AND MINERALS—contd.

Table No. 1—contd.

Number of mines regulated by the Indian Mines Act, 1901, number of workers and output of minerals, during the year 1918—contd.

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.		NUMBER OF MINES INSPECTED DURING THE YEAR.		TOTAL OUTPUT.	AVERAGE NUMBER OF PERSONS EMPLOYED DAILY IN AND ABOUT THE MINES.								Grand total below and above ground.
			Worked by mechanical power.	Not worked by mechanical power.	Number of mines inspected.	Number of inspections.		BELOW GROUND.				ABOVE GROUND.				
								Adult males.	Adult females.	Children (under 12).	Total below ground.	Adult males.	Adult females.	Children (under 12).	Total above ground.	
Rajputana	B.—MICA—concl'd.															
	Cwts.															
	Ajmer-Merwara	25	...	25	...	...	922	227	43	21	291	48	76	30	154	415
	Nasirabad	1	...	1	...	...	42	10	2	2	14	4	1	1	6	20
	TOTAL	26	...	26	...	...	964	237	45	23	305	52	77	31	160	465
	GRAND TOTAL (MICA) FOR 1918	623	77	546	58	60	51,572	10,894	4,353	1,567	16,814	3,766	2,925	2,087	8,778	25,592
	" " OF PRECEDING YEAR	637	72	565	48	49	35,896	7,835	4,172	1,164	13,171	3,451	2,344	1,563	7,358	20,529
	DIFFERENCE	-14	+5	-19	+10	+11	+15,676	+2,959	+181	+403	+3,613	+315	+581	+524	+1,420	+5,063
Bombay	C.—MANGANESE.															
	Tons.															
	Panch Mahals	2	2	...	...	...	30,893	461	214	75	780	193	41	8	242	1,022
	Balaghat	25	...	25	...	...	180,353	2,339	2,218	189	4,736	593	380	92	1,065	5,801
	Bhandara	4	...	4	...	...	21,853	197	206	24	427	94	29	3	126	553
Central Provinces	Cbhindwara	2	2	...	...	...	72,398	760	975	36	1,771	214	86	13	343	2,114
	Nagpur	21	1	20	...	...	167,630	1,477	1,419	15	2,911	579	481	65	1,125	4,036
	TOTAL	52	3	49	...	...	392,234	4,763	4,818	264	9,815	1,510	976	173	2,659	12,504

Madras	Vizagapatam	4	...	4	...	...	2,230	166	98	7	271	30	14	2	46	317
	GRAND TOTAL (MANGANESE) FOR 1918	58	5	53	...	...	415,357	5,390	5,160	346	10,898	1,733	1,031	183	2,947	13,843
	" " OF PRECEDING YEAR	56	3	56	40	42	487,052	5,456	10	250	10,806	1,920	1,062	190	3,172	13,978
	DIFFERENCE	...	+3	-3	-40	-42	-81,695	-66	+60	+96	+90	-187	-31	-7	-225	-135
	D.—LIMESTONE.															
	Tons.															
Central Provinces	Bilaspur	1	...	1	...	..	5,034	20	2	...	22	30	49	4	82	104
	Jabalpur, Katni	24	1	23	...	...	125,417	573	919	32	1,484	170	212	20	402	1,886
	TOTAL	25	1	24	...	...	130,451	553	921	32	1,506	300	260	24	484	1,990
Panjab	Hoshiarpur	1	...	1	...	...	1,000	20	...	...	20	40	...	...	40	60
	GRAND TOTAL (LIMESTONE) FOR 1918	26	1	25	...	...	131,451	573	921	32	1,526	240	260	24	524	2,050
	" " OF PRECEDING YEAR	32	1	31	...	...	82,340	488	807	34	1,329	208	225	35	468	1,797
	DIFFERENCE	-6	...	-6	...	...	+49,111	+84	+114	-2	+197	+32	+35	-11	+56	+253
	E.—SALT.															
	Tons.															
Panjab	Jhelum	2	1	1	1	2	136,370	392	294	54	740	71	...	..	71	811
	Mianwali	1	...	1	1	2	11,235	68	...	20	88	...	...	...	...	88
	Shahpur	1	...	1	1	1	10,008	48	27	6	81	...	...	...	...	81
	GRAND TOTAL (SALT) FOR 1918	4	1	3	3	5	156,513	508	321	80	909	71	...	...	71	980
	" " OF PRECEDING YEAR	4	1	3	...	...	152,542	579	387	72	1,038	59	...	...	59	1,097
	DIFFERENCE	...	...	...	+3	+5	+5,971	-71	-66	+8	-129	+12	...	...	+112	-117

APPENDIX I—contd.

STATISTICS OF MINES AND MINERALS—contd.

Table No. 1—contd.

Number of mines regulated by the Indian Mines Act, 1901, number of workers and output of minerals, during the year 1918—contd.

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.		NUMBER OF MINES INSPECTED DURING THE YEAR.		TOTAL OUTPUT.	AVERAGE NUMBER OF PERSONS EMPLOYED DAILY IN AND ABOUT THE MINES.								
			Worked by mechanical power.	Not worked by mechanical power.	Number of mines inspected.	Number of inspections.		BELOW GROUND.				ABOVE GROUND.				Grand total below and above ground.
								Adult males.	Adult females.	Children (under 12).	Total below ground.	Adult males.	Adult females.	Children (under 12).	Total above ground.	
Burma	Mogok	1	1	0	1	1	F.—GEMS. (a) Rubies. Carats. 101,537	...	...	...	...	...	...	...	...	...
	Mogok	3	2	1	...	...	(b) Sapphires. 34,949	778	...	...	778	522	...	...	522	1,300
	Mogok . . . . .	...	...	...	...	...	(c) Spinel. 27,529	...	...	...	...	...	...	...	...	...
	TOTAL	3	2	1	...	...	164,115	778	...	...	778	522	...	...	522	1,300
	GRAND TOTAL (GEMS) FOR 1918	3	2	1	...	...	164,115	778	...	...	778	522	...	...	522	1,300
	" " OF PRECEDING YEAR	2	2	...	...	...	198,200	739	...	...	739	506	...	...	506	1,245
DIFFERENCE	+1	...	+1	...	...	-34,085	+39	...	...	+39	+16	...	...	+16	+55	
Bihar and Orissa	Monghyr	4	...	4	...	...	G.—SLATE. Tons. 1,821	97	74	15	186	29	...	...	29	215
	Panjab	Gurdaspur	1	...	1	...	...	6	5	...	5	...	...	...	...	5
	Gurgaon	5	...	5	...	...	2,170	88	...	59	147	44	...	4	48	195
	Kangra	5	...	5	...	...	5,938	153	4	3	160	42	51	22	115	275

TOTAL		11	...	11	...	...	8,114	248	4	62	312	86	51	20	163	475
	GRAND TOTAL (SLATS) FOR 1918.	15	...	15	...	...	9,935	343	78	77	498	115	51	26	102	690
	" " OF PRECEDING YEAR.	13	...	13	4	4	8,731	337	30	51	418	101	61	31	193	611
	DIFFERENCE	+2	...	+2	-4	-4	+1,204	+6	+48	+26	+80	+14	-10	-5	-1	+79
H.—GOLD.																
Bihar and Orissa	Singhbhum	1	...	1	...	...	Oza. 2,085	42	11	...	53	54	72	4	130	183
Madras	Anantapur	3	3	...	...	...	17,331	488	...	...	486	386	68	62	516	1,004
	GRAND TOTAL (GOLD) FOR 1918.	4	3	1	...	...	19,916	530	11	...	541	440	140	66	646	1,187
	" " OF PRECEDING YEAR.	4	3	1	4	6	22,991	889	21	...	910	740	142	95	977	1,887
	DIFFERENCE	...	...	...	-4	-6	-3,075	-359	-10	...	-369	-300	-2	-29	-331	-700
I.—IRON ORE.																
Bihar and Orissa	Singhbhum	2	1	1	...	...	Tons. 115,085	443	328	60	836	190	61	...	251	1,087
Central Provinces	Jabalpur	1	...	1	...	...	802	15	30	12	57	62	6	6	73	130
Rajputana	Ajmer-Merwara	2	..	2	...	...	3	19	...	...	19	1	1	1	3	22
	GRAND TOTAL (IRON) FOR 1918.	5	1	4	...	...	115,890	482	358	72	912	523	67	7	327	1,239
	" " OF PRECEDING YEAR.	3	1	2	...	...	178,303	556	432	104	1,092	350	159	5	514	1,808
	DIFFERENCE	+2	...	+2	...	...	-62,413	-74	-74	-32	-180	-97	-92	+2	-187	-367

APPENDIX I—*contd.*

STATISTICS OF MINES AND MINERALS—*contd.*

Table No. 1—*contd.*

Number of mines regulated by the Indian Mines Act, 1901, number of workers and output of minerals, during the year 1918—*contd.*

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES		NUMBER OF MINES INSPECTED DURING THE YEAR.		TOTAL OUTPUT.	AVERAGE NUMBER OF PERSONS EMPLOYED DAILY IN AND ABOUT THE MINES.								Grand total below and above ground.
			Worked by mechanical power.	Not worked by mechanical power.	Number of mines inspected.	Number of inspections.		BELOW GROUND.				ABOVE GROUND.				
								Adult males.	Adult females.	Children (under 12).	Total below ground.	Adult males.	Adult females.	Children (under 12).	Total above ground.	
Bihar and Orissa	Singhbhum	1	1	...	...	...	51	40	...	...	40	32	24	...	56	96
					J.—WOLFRAM. Cwts.											
Burma	Mergui	3	...	3	...	...	3,928	83	1	...	84	261	33	24	318	402
	Tavoy	99	4	95	33	81	66,380	4,845	25	...	4,870	3,766	192	56	4,014	8,864
	Thaton	11	...	11	...	...	1,830	408	107	50	565	220	158	53	431	996
	TOTAL	113	4	109	33	81	72,138	5,336	133	50	5,519	4,247	383	133	4,763	10,282
	GRAND TOTAL (WOLFRAM) FOR 1918.	114	5	109	33	81	72,169	5,376	133	50	5,559	4,279	407	133	4,819	10,378
	" " OF PRECEDING YEAR.	147	4	143	38	97	79,312	5,096	157	49	5,302	4,600	321	153	5,074	10,376
	DIFFERENCE	-33	+1	-34	-5	-16	-7,123	+280	-24	+1	+257	-321	+86	-20	-255	+2

		K.—MAGNESITE.															
																Tons.	
Madras	Salem	1	...	1	1	1	5,773	105	65	131	321	26	...	6	32	353	
	TOTAL OF PRECEDING YEAR .	2	...	2	2	2	18,192	376	376	510	1,262	33	...	20	53	1,315	
	DIFFERENCE	-1	...	-1	-1	-1	-12,419	-271	-291	-389	-941	-7	...	-14	-21	-902	
		L.—CHROMITE.															
																Cwts.	
Baluchistan	Quetta-Pishin	2	...	2	...	...	1,040	2	...	...	2	...	...	...	...	2
	Zhob	21	...	21	...	...	457,840	104	...	...	104	60	...	...	60	164
	TOTAL	23	...	23	...	...	458,880	106	...	...	106	60	...	...	60	166
Bihar and Orissa	Singhbhum	4	...	4	...	...	21,710	97	102	10	209	33	4	1	38	247
	GRAND TOTAL (CHROMITE) FOR 1918	27	...	27	...	...	480,590	203	102	10	315	93	4	1	98	413
	" " OF PRECEDING YEAR.	30	...	30	4	4	345,329	300	23	40	613	75	12	3	90	703	
	DIFFERENCE	-3	...	-3	-4	-4	+135,261	-97	-171	-30	-298	+18	-8	-2	+8	-290	

APPENDIX I—contd.

STATISTICS OF MINES AND MINERALS—contd.

Table No. 1—contd.

Number of mines regulated by the Indian Mines Act, 1901, number of workers and output of minerals, during the year 1918—contd.

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES		NUMBER OF MINES INSPECTED DURING THE YEAR.		TOTAL OUTPUT.	AVERAGE NUMBER OF PERSONS EMPLOYED DAILY IN AND ABOUT THE MINES.									
			Worked by mechanical power.	Not worked by mechanical power.	Number of mines inspected.	Number of inspections.		BELOW GROUND.				ABOVE GROUND.				Grand total below and above ground.	
								Adult males.	Adult females.	Children (under 12).	Total below ground.	Adult males.	Adult females.	Children (under 12).	Total above ground.		
M.—COPPER ORE.																	
Bihar and Orissa	Singhbhum	1	1	—	1	2	Tons. 3,619	191	...	...	191	768	312	43	1,123	1,314
Burma	Lower Chhindwin	1	...	1	...	...	...	4	...	...	4	26	...	...	26	30
Central Provinces	Balaghat	1	...	1	...	...	...	3	9	...	12	...	...	...	...	12
	GRAND TOTAL (COPPER) FOR 1918.	3	1	2	1	2	3,619	198	9	...	207	794	312	43	1,149	1,356	
	.. .. OF PRECEDING YEAR.	2	1	1	1	5	20,108	472	..	...	472	810	335	55	1,200	1,673
	DIFFERENCE	+1	...	+1	...	-3	-16,489	-274	+9	...	-265	-16	-23	-12	-51	-316	
N.—BAUXITE.																	
Central Provinces	Jabalpur	1	...	1	...	...	Cwts. 23,840	45	70	1	116	4	...	...	4	120
	TOTAL OF PRECEDING YEAR	1	...	1	...	...	14,300	18	16	...	34	6	4	2	12	46
	DIFFERENCE . . . . .	...	...	...	...	...	+9,540	+27	+54	+1	+82	-2	-4	-2	-8	+74

		O.—CLAY.														
							Tons.									
Bihar and Orissa	{ Manbhum Palamau	2	...	2	...	...	27,621	172	128	20	320	106	121	...	227	547
		1	...	1	...	...	2,878	31	19	13	63	51	54	13	118	181
	TOTAL	3	...	3	...	...	30,499	203	147	33	383	157	175	13	345	728
Central Provinces	Jabalpur	5	2	3	...	...	58,957	103	141	20	267	54	6	1	61	328
Delhi	Delhi	1	...	1	...	...	2,536	12	...	...	12	11	...	...	11	23
GRAND TOTAL (CLAY)		9	2	7	...	...	91,392	318	291	53	662	222	181	14	417	1,079
" " OF PRECEDING YEAR.		10	2	8	...	...	55,396	172	190	33	395	114	66	10	190	585
DIFFERENCE		-1	...	-1	...	...	+35,996	+146	+101	+20	+267	+108	+115	+4	+227	+494
		P.—GALENA.														
Central Provinces	Drug	1	...	1	...	...	Cwts. 60	4	10	...	14	2	10	...	12	26
		TOTAL OF PRECEDING YEAR	1	...	1	...	...	...	...	...	...	5	15	...	20	20
	DIFFERENCE	...	...	...	...	...	+60	+4	+10	...	+14	-3	-5	...	-8	+6
		Q.—TIN.														
Burma	{ Mergui Tavoy Thaton	2	...	2	...	...	Cwts.	559	50	...	50	6	...	...	6	56
		1	...	1	3	6	10,307	8	...	...	8	44	10	5	59	67
	1	1	...	...	...	1,157	130	10	...	140	146	14	...	160	300	
GRAND TOTAL (TIN)		4	1	3	3	6	12,023	188	10	...	198	196	24	5	225	423
" " OF PRECEDING YEAR.		9	1	8	...	...	3,640	77	8	2	87	233	8	3	244	331
DIFFERENCE		-5	...	-5	+3	+6	+8,383	+111	+2	-2	+111	-37	+16	+2	-19	+92

APPENDIX I—contd.

STATISTICS OF MINES AND MINERALS—contd.

Table No. 1—contd.

Number of mines regulated by the Indian Mines Act, 1901, number of workers and output of minerals, during the year 1918—contd.

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES		NUMBER OF MINES INSPECTED DURING THE YEAR.		TOTAL OUTPUT.	AVERAGE NUMBER OF PERSONS EMPLOYED DAILY IN AND ABOUT THE MINES.								
			Worked by mechanical power.	Not worked by mechanical power.	Number of mines inspected.	Number of inspections.		BELOW GROUND.				ABOVE GROUND.				Grand total below and above ground.
								Adult males.	Adult females.	Children (under 12).	Total below ground.	Adult males.	Adult females.	Children (under 12).	Total above ground.	
R.—STEATITE.																
Central Provinces . . .	Jabalpur	3	...	3	...	...	Cwts. 80,917	61	43	2	106	21	41	7	72	173
Madras	Kurnool	1	...	1	...	...	202	2	3	...	5	3	1	...	4	9
GRAND TOTAL (STEATITE) FOR 1918		4	...	4	...	...	61,119	63	46	2	111	24	45	7	76	187
" " OF PRECEDING YEAR.		8	...	8	1	1	34,082	90	101	...	191	45	61	21	127	
DIFFERENCE /		-4	...	-4	-1	-1	+27,037	-27	-55	+2	-80	-21	-16	-14	-51	-131
S.—FULLERS' EARTH.																
Central Provinces . . .	Jabalpur	Mineral	won from a limestone mine				Tons. 218	...	...	...	...	...	...	...	...	...
TOTAL OF PRECEDING YEAR . . . . .		...	...	...	...	...	334	...	...	...	...	...	...	...	...	...
DIFFERENCE . . . . .		...	...	...	...	...	-116	...	...	...	...	...	...	...	...	...

		T.—SILVER.														
		<i>Mineral won from a gold mine</i>			Ozs.											
Madras	Anantapur					1,169	...	...	...	...	...	...	...	...	...	...
	TOTAL OF PRECEDING YEAR . . . . .	...	...	...	...	1,281	...	...	...	...	...	...	...	...	...	...
	DIFFERENCE . . . . .	...	...	...	...	-112	...	...	...	...	...	...	...	...	...	...
		U.—SAMARSKITE.														
		<i>Mineral won from a mica mine</i>			Cwts.											
Madras	Nellore					14	...	...	...	...	...	...	...	...	...	...
	TOTAL OF PRECEDING YEAR . . . . .	...	...	...	...	67	...	...	...	...	...	...	...	...	...	...
	DIFFERENCE . . . . .	...	...	...	...	-65½	...	...	...	...	...	...	...	...	...	...
		V.—GRAPHITE.														
					Cwts.											
Rajputana	Ajmer-Merwara	2	...	2	...	20	8	...	...	8	2	5	3	10	18	
	TOTAL OF PRECEDING YEAR	5	...	5	...	847	25	...	...	25	8	17	4	20	54	
	DIFFERENCE	-3	...	-3	...	-827	-17	...	...	-17	-6	-12	-1	-19	-36	
		W.—OCHRE.														
					Tons.											
Bihar and Orissa	Puri	1	1	...	...	93	10	...	...	10	12	...	7	19	29	
	TOTAL OF PRECEDING YEAR	1	...	1	...	403	8	...	...	8	8	12	...	20	28	
	DIFFERENCE . . . . .	...	+1	-1	...	-310	+2	...	...	+2	+4	-12	+7	-1	+1	
		X.—MOLYBDENITE.														
					Cwts.											
Barma	Tavoy	1	...	1	...	4	10	...	...	10	5	...	...	5	15	
	TOTAL OF PRECEDING YEAR . . . . .	...	...	...	...	27	...	...	...	...	...	...	...	...	...
	DIFFERENCE	+1	...	+1	...	-23	+10	...	...	+10	+5	...	...	+5	+15	

APPENDIX I—contd.

STATISTICS OF MINES AND MINERALS—concl'd.

Table No. 1—concl'd.

Number of mines regulated by the Indian Mines Act, 1901, number of workers and output of minerals, during the year 1918—concl'd.

PROVINCE.	District and mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES		NUMBER OF MINES INSPECTED DURING THE YEAR.		TOTAL OUTPUT.	AVERAGE NUMBER OF PERSONS EMPLOYED DAILY IN AND ABOUT THE MINES.								
			Worked by mechanical power.	Not worked by mechanical power.	Number of mines inspected.	Number of inspections.		BELOW GROUND.				ABOVE GROUND.				Grand total below and above ground.
								Adult males.	Adult females.	Children (under 12).	Total below ground.	Adult males.	Adult females.	Children (under 12).	Total above ground.	
Y.—BARYTES.																
Madras	Kurnool	1	...	1	...	...	Cwts. 24,000	12	7	...	19	6	16	...	22	41
	TOTAL OF PRECEDING YEAR	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	DIFFERENCE	+1	...	+1	...	...	+24,000	+12	+7	...	+19	+6	+16	...	+22	+41
Z.—APATITE.																
Bihar and Orissa	Singhbhum	1	...	1	...	...	Tons. 5,100	45	30	4	79	41	25	5	71	150
	TOTAL OF PRECEDING YEAR	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	DIFFERENCE	+1	...	+1	...	...	+5,100	+45	+30	+4	+79	+41	+25	+5	+71	+150

		AA.—POTASH.					Tons.										
Panjab	Jhelum	(Mineral won from a Salt mine)				135	...	...	...	...	...	...	...	...	...	...
	TOTAL OF PRECEDING YEAR	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	DIFFERENCE . . . . .	...	...	...	...	+135	...	...	...	...	...	...	...	...	...	...
	GRAND TOTAL (ALL MINERALS) 1918.	1,627	467	1,160	498	879	Tons. 20,784,515 Cwts. 725,418½ Carats. 164,115 Troy ounces. 21,085	91,516	55,442	3,106	150,064	55,703	27,050	4,921	87,674	237,736	
	GRAND TOTAL OF PRECEDING YEAR.	1,663	442	1,221	655	1,086	Tons. 16,339,785 Cwts. 513,505 Carats. 198,200 Troy ounces. 24,272	80,295	49,773	2,874	133,042	51,377	22,997	4,465	78,639	211,861	
	DIFFERENCE	-36	+25	-61	-157	-207	Tons. +2,444,730 Cwts. +211,913½ Carats. -34,085 Troy ounces. -3,187	+11,221	+5,669	+132	+17,022	+4,326	+4,053	+456	+8,835	+25,857	

APPENDIX I—contd.

Table No. 2.

Analyses of figures relating to output of coal.

PROVINCE.	District and mineral field.	OPENING STOCKS.		RAISINGS.		TOTAL.		DESPATCHES.		COLLIERY CONSUMPTION.		COAL DELIVERED TO COKING.		CLOSING STOCKS.		COKE MADE.	
		Steam.	Slack.	Steam.	Slack.	Steam.	Slack.	Steam.	Slack.	Steam.	Slack.	Steam.	Slack.	Steam.	Slack.	Hard coke.	Soft coke.
		Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Assam	Lakhimpur	678	...	267,749	...	268,427	...	261,011	...	2,010	...	457	...	1,919	...	152	...
	Naga Hills	5,738	...	21,299	...	36,037	...	29,253	...	373	...	...	...	411	...	...	...
	Sibsagar . . . . .	...	20	...	1,827	...	1,847	...	1,797	...	20	...	...	...	30	...	...
	TOTAL	6,416	20	292,049	1,827	298,464	1,847	293,264	1,797	2,413	20	457	...	2,330	30	152	...
Baluchistan	Kalat	40	164	1,734	2,777	1,774	2,941	1,708	2,968	...	...	...	...	66	73	...	...
	Loralai	15	...	149	...	164	...	154	...	...	..	...	...	10	...	...	...
	Quetta-Pishin	291	871	1,785	7,080	2,076	7,951	1,334	6,197	...	...	...	...	742	1,754	...	...
	Sibi-Khost	195	766	8,743	20,957	8,938	21,623	8,698	16,540	35	4,654	...	...	205	429	...	...
	TOTAL	541	1,801	12,411	30,714	12,952	32,515	11,894	25,605	35	4,654	...	...	1,023	2,256	...	...
Bengal	Bankura-Raniganj	2	1,087	5,696	566	5,698	1,653	4,925	483	773	249	...	...	...	921	...	...
	Birbhum " . . . . .	...	...	2,281	609	2,281	609	2,062	91	...	566	...	...	219	12	...	...
	Burdwan "	51,768	19,722	4,111,259	681,824	4,463,027	901,546	4,029,421	333,251	127,834	510,417	35,050	13,853	270,722	44,025	4,549	23,197
	TOTAL	51,770	10,839	4,419,236	883,059	4,471,003	903,868	4,036,108	333,825	128,607	511,232	35,050	13,853	270,941	44,958	4,549	23,197

Bihar and Orissa	Hazaribagh	Bokaro Ramgarh	4,182	5,633	420,472	120,950	424,654	126,583	399,693	101,514	1,275	6,089	...	7,610	23,686	11,370	5	5,064
		Giridih	4,296	5,110	635,039	211,553	639,335	216,608	624,598	99,553	1,215	54,946	...	58,626	13,522	3,538	45,173	...
		Jharia	8,819	1,372	160,981	28,231	169,500	29,603	124,830	15,938	9,420	9,767	...	350	37,550	3,548	106	...
	Mazbhum	Jharia	231,805	104,485	9,128,639	1,633,209	9,360,444	1,737,694	7,859,774	660,216	304,024	700,333	218,679	201,670	977,967	155,475	131,885	104,684
		Raniganj	43,196	9,640	844,754	212,153	887,950	221,793	512,180	93,116	45,943	81,766	169,984	10,334	168,543	36,577	4,123	107,324
	Palamau-Daltonganj	1,237	518	62,568	19,248	63,505	19,766	63,021	12,477	...	6,333	...	...	784	951	...	...
	Sambalpur-Hingir Rampur	...	1	36,692	14,346	36,692	14,347	34,681	2,032	2,011	12,266	...	...	...	29	...	...
	Santal Par- ganis	Jainty	1,212	193	127,401	10,063	128,613	10,256	106,409	3,748	9,174	5,742	...	...	19,030	766	...	...
		Raniganj	294	234	8,026	1,291	8,320	1,525	6,241	550	534	495	...	...	1,545	490	...	...
			TOTAL	285,041	127,186	11,424,572	2,251,044	11,719,613	2,378,230	9,725,727	1,009,164	373,596	877,737	379,663	278,590	1,240,627	212,739	181,292	217,072
Central Provinces	Chanda	Chanda	295	961	103,437	31,938	103,732	32,899	101,900	17,928	1,011	13,350	...	...	821	1,621	...	...
		Chhindwara	339	776	216,675	50,328	217,314	51,104	214,518	33,942	1,927	15,981	...	...	969	1,181	...	...
		Narsinghpur	2,714	2,172	53,960	24,832	56,674	27,004	47,798	17,235	8,565	8,211	...	...	311	1,558	...	...
		TOTAL	3,348	3,909	374,372	107,098	377,720	111,007	361,216	69,105	11,403	37,542	...	...	2,101	4,360	...	...
North-West Frontier Province.	Hazara	...	...	...	240	...	240	...	240	...	...	...	...	...	...	...	...
Panjab	Jhelum	Jhelum	...	4,304	3,738	35,913	3,738	40,217	3,438	36,157	300	1,051	...	...	...	3,000	...	...
		Mianwali	...	150	321	4,831	321	4,981	321	4,743	...	...	...	...	...	298	...	...
		Shahpur	...	579	404	5,211	404	5,790	404	4,496	...	174	...	...	...	1,120	...	...
		TOTAL	...	5,033	4,463	45,955	4,463	50,998	4,163	45,396	300	1,225	...	...	...	4,367	...	...
	GRAND TOTAL 1918	3,7,116	158,758	16,527,102	3,319,937	16,884,218	3,478,695	14,435,672	1,485,132	516,354	1,432,410	415,170	292,443	1,517,022	268,710	185,983	210,269	

APPENDIX I—contd.

Table No. 3.
Number of mines opened and closed during the year ending 31st
December 1918.

Province.	District.	Number of mines opened.	Number of mines closed.	
A.—COAL.				
ASSAM	Lakhimpur	1	...	
BALUCHISTAN	Sibi-Khoat	3	...	
BENGAL	Birbhum	3	2	
	Burdwan-Raniganj	9	...	
TOTAL .		12	2	
BIHAR AND ORISSA	Hazaribagh {	Bokaro-Ramgarh .	1	5
		Giridih	2
	Manbhum {	Jharia	11	7
		Raniganj	1
	Sambalpur, Hingir Rampur	2	...	
	Sonthal Parganas, Raniganj	1	1	
TOTAL .		15	16	
CENTRAL PROVINCES	Chanda	2	...	
	Chhindwara	3	...	
TOTAL .		5	...	
PANJAB	Shabpur	1	...	
TOTAL (COAL) .		37	18	
B.—MICA.				
BIHAR AND ORISSA	Bhagalpur . . . . .	...	2
	Gaya	15	5	
	Hazaribagh	129	56	
	Manbhum	1	...	
	Monghyr	8	4	
	Sambalpur	1	...	
TOTAL .		154	67	

APPENDIX I—*contd.*Table No. 3—*contd.*

Number of mines opened and closed during the year ending 31st
December 1918—*contd.*

Province.	District.	Number of mines opened.	Number of mines closed.
B—MICA—<i>concl'd.</i>			
MADRAS	Nellore	23	15
RAJPUTANA	Ajmer-Merwara	5	14
TOTAL (MICA) .		182	96
C.—MANGANESE.			
CENTRAL PROVINCES	Balaghat . . . . .	...	1
	Nagpur	2	3
TOTAL .		2	4
MADRAS	Vizagapatam	1	...
TOTAL (MANGANESE) .		3	4
D.—LIMESTONE.			
CENTRAL PROVINCES	Bilaspur	1	...
	Jabalpur	6	5
TOTAL (LIMESTONE) .		7	5
E.—IRON ORE.			
CENTRAL PROVINCES	Jabalpur	1	...
RAJPUTANA	Ajmer-Merwara	1	1
TOTAL (IRON) .		2	1
F.—WOLFRAM.			
BHAR AND ORISSA	Singhbhum	1	...
BURMA	Tavoy	17	6
	Thaton	2	1
TOTAL .		19	7
TOTAL (WOLFRAM) .		20	7

APPENDIX I—*contd.*Table No. 3—*contd.*

Number of mines opened and closed during the year ending 31st
December 1918—*contd.*

Province.	District.	Number of mines opened.	Number of mines closed.
G.—BAUXITE.			
CENTRAL PROVINCES	Jabalpur	1	1
H.—COPPER.			
BURMA	Lower Chhindwin . . . . .	...	1
CENTRAL PROVINCES	Balaghat	1	1
	TOTAL (COPPER) .	1	2
I.—CLAY.			
BIHAR AND ORISSA	Manbhurn . . . . .	...	1
CENTRAL PROVINCES	Jabalpur . . . . .	...	1
DELHI	Delhi	1	1
	TOTAL (CLAY) .	1	3
J.—GALENA.			
CENTRAL PROVINCES	Drug	1	1
K.—TIN.			
BURMA	Tavoy	1	...
L.—GOLD.			
MADRAS	Anantapur . . . . .	...	1
M.—SLATE.			
BIHAR AND ORISSA	Monghyr	1	...
PANJAB	Surgaoon	1	...
	TOTAL (SLATE) .	2	...

APPENDIX I—*contd.*Table No. 3—*concl'd.*

Number of mines opened and closed during the year ending 31st
December 1918—*concl'd.*

Province.	District.	Number of mines opened.	Number of mines closed.
N.—GRAPHITE.			
RAJPUTANA	Ajmer-Merwara . . . . .	...	2
O.—APATITE.			
BIHAR AND ORISSA	Singhbhum	1	...
P.—BARYTES.			
MADRAS	Kurnool	1	...
GRAND TOTAL (ALL MINES) .		260	141

Table No. 4.

The following table shows the fluctuations in the output of the principal minerals raised from mines classed under the Indian Mines Act, 1901. The other minerals raised are gems, slate, iron ore, magnesite, chromite, tin, steatite, clay, galena, bauxite, fuller's earth, silver, graphite, molybdenite, ochre, potash, samarskite, apatite and barytes.

Year.	Coal.	Manganese.	Mica.	Limestone.	Salt.	Wolfram.	Gold.	Copper ore.
	Tons.	Tons.	Cwts.	Tons.	Tons.	Cwts.	Troy ozs.	Tons.
1909	11,204,227	357,205	32,011	56,502	126,987	114	5,615	7
1910	11,387,716	468,669	21,375	81,258	119,867	18	3,266	864
1911	12,048,726	441,426	31,686	92,692	124,603	8,394	8,277	2,079
1912	14,041,368	423,464	41,660	91,784	131,233	25,401	7,269	8,984
1913	15,486,318	637,391	43,650	71,259	138,510	27,520	11,019	3,639
1914	15,727,631	555,672	38,189	146,505	135,518	31,526	19,873	4,400
1915	16,352,480	378,172	24,063	64,179	141,770	39,432	24,320	8,010
1916	16,419,082	568,032	35,978	45,290	160,357	59,094	23,235	2,671
1917	17,326,384	497,052	35,896	82,340	162,542	79,312	22,991	20,108
1918	19,847,039	415,357	51,572	131,451	158,513	72,189	19,916	3,619

APPENDIX I—*concl'd.*

Table No. 5.

The following table shows the amount of coal raised, the average number of persons working daily and the death-rate during the years 1909 to 1918 in respect of coal mines under the Indian Mines Act, 1901 :—

YEAR.	Amount of coal raised.	Average number of persons working daily below and above ground.	Number of deaths below and above ground.	DEATH-RATE.	
				Per 1,000,000 tons raised.	Per 1,000 persons working daily below and above ground.
1909 . . .	11,294,227	109,291	119	10.53	1.08
1910 . . .	11,387,716	105,285	160	14.05	1.52
1911 . . .	12,048,726	106,598	148	12.28	1.38
1912 . . .	14,044,368	121,392	157	11.17	1.29
1913 . . .	15,486,318	133,042	185	11.95	1.39
1914 . . .	15,727,631	137,851	145	9.22	1.05
1915 . . .	16,352,480	145,537	166	10.15	1.14
1916 . . .	16,419,082	143,459	169	10.29	1.18
1917 . . .	17,326,384	153,683	163	9.41	1.06
1918 . . .	19,847,039	176,269	197	9.93	1.12

APPENDIX II.
ACCIDENTS IN MINES.

Table No. I.

List of Fatal Accidents in mines regulated by the Indian Mines Act, 1901, during the year 1918.

Serial No.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral wrought.	Cause of accident and remarks.
EXPLOSIONS OF FIRE DAMP—(12 deaths).						
1	2nd January, 8 A.M.	Kuardi Mine, Charanpur P. O., Bengal.	Kuardi Coal Co.	Moti Meah, (m.), 30, <i>Miner.</i>	Coal	Deceased, whilst working at the face of a narrow gallery with a naked light, ignited an accumulation of gas. He received burns about the face, shoulders and lower arms, and died 11 days later. Inspection and inquiry made.
2	6th September, 3-30 P.M.	Bajdih Mine, Sitarampur P. O., Bengal.	Equitable Coal Co., Ltd.	Murathia Barhi, (m.), 25, <i>Main gallery driver.</i>	Coal	Some miners, carrying open lights, were sent to work in a district where safety lamps were in use. A small accumulation of fire damp, in the gallery in which deceased was at work, became ignited by one of the open lamps. Deceased was badly burnt about the upper part of the body and died five days later. Inspection and inquiry made.
3	18th November, about 9 A.M.	Dishergarh Mine, Dishergarh P. O., Bengal.	Equitable Coal Co., Ltd.	Ram Charan Lohar, (m.), 32, <i>Timber Mistry;</i> Karim Meah, (m.), 42, <i>Rail Mistry;</i> Ramjash Jeswar, (m.), 48, <i>Fencing coolie;</i> Broja Roy, (m.), 21, <i>Timber coolie;</i> Gosta Bauri, (m.), 24, <i>Rail coolie.</i> Khedoo Teli, (m.), 26, <i>Timber Mistry;</i> Fakir Bauri, (m.), 40, <i>Brattice Sirdar;</i> Abdul Khalil, (m.), 21, <i>Rail coolie;</i> Abdul Mistry, (m.), 32, <i>Rail Mistry;</i> Uzir Meah, (m.), 43, <i>Timber coolie.</i>	Coal	Fourteen persons were engaged in building two stoppings in a disused gallery lying to the rise of an old goaf. Some of them climbed into the goaf to get stones for the building of the stoppings and fire damp in the goaf was ignited at the naked light of one of them. An explosion occurred by which all the persons were burnt, and 10 succumbed to their injuries. Inspection and inquiry made. (<i>See Report, page 7.</i>)

APPENDIX II—contd.

Fatal Accidents, 1918—contd.

Serial No.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral wrought.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—(126 deaths).						
(a) Falls of roof—(70 deaths).						
4	25th January, 6-30 A.M.	Kendwadih mine, Jamadoba P. O., Bihar and Orissa.	Harildih Coal Co., Ld.	Ram Bhaju Barhi, (m.), 18, <i>Timberman.</i>	Coal	Deceased was an experienced timberman. He stopped the coal-cutters from working at a pillar in a pillar extraction district, and began to set props on the edge of the goaf. He kept one coal-cutter to assist him. Whilst they were measuring the length of props required, a fall of roof occurred in the goaf. They were both struck by the edge of the falling stone. Deceased was killed and the coal-cutter sustained a serious spinal injury. Inspection and inquiry made.
5	30th January, 1-30 P.M.	Kendwadih mine, Kusunda P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Raghu Chamar, (m.), 25, <i>Coal-cutter.</i>	Coal	Whilst deceased was cutting roof coal in a gallery, 10 feet wide by 7 to 10 feet high, a nodule of stone, weighing about 80 lbs., fell upon him from a height of 6 feet. He was struck over the heart, and died shortly after. The stone fell from an irregular band in the coal seam. Inspection and inquiry made.
6	3rd February, 1 A.M.	Benahit mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ld.	Jamni Kohlin, (f.), 10, <i>Coal-carrier.</i>	Coal	Whilst deceased was sitting down in a gallery, roof stone, 6' x 3' x 0"–12", fell from a 'slip.' She sustained injuries to which she succumbed within a few hours. Inspection and inquiry made.
7	1st February, 6-30 P.M.	Katras mine, Katrasgarh P. O., Bihar and Orissa.	Nowagarh Coal Co., Ld.	Bhikari Dosadh, (m.), 50, <i>Propping coolie.</i>	Coal	Stone cogs were being built in a pillaring area. Deceased and two other coolies were engaged in carrying stones for the building from the edge of the goaf. A heavy fall took place in the goaf, and some of the falling stones struck deceased, causing injuries which terminated fatally within a few hours. Inspection and inquiry made. (See Report page 8.)
8	6th February, 2 A.M.	Hatgaroic mine, Sitarampur P. O., Bengal.	Lutchipur Coal Co., Ld.	Nowaj Gope, (m.), 32, <i>Coal-cutter.</i>	Coal	Deceased, accompanied by his coal-carrier, left his working place, broke down a fence, and was robbing coal from the corner of a pillar, when a mass of overhanging roof stone, measuring 6' 0" x 5' 0" x 1' 0", fell upon him and his companion from a height of 4' 8". He sustained a fractured spine and died one and-a-half hours later. His coal-carrier sustained a simple fracture of the right thigh. Inspection and inquiry made.
9	20th February, 3 P.M.	Joktiabad mine, Giridih P. O., Bihar and Orissa.	East Indian Railway Co., Ld.	Bhim Gope, (m.), 40, <i>Stone-cutter.</i>	Coal	Deceased, with several other men, was working at a 'fall' of 'dropped' coal when the main roof in the inside goaf fell without any warning. A piece of stone, measuring 3' 0" x 3' 0" x 6' 9", fell within the 'opening' from a height of 18' 0" and struck deceased, killing him instantly. Inspection and inquiry made.
10	13th February, 10 A.M.	Namdang mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ld.	Tek Bahadur Rana (Nepali), (m.), 38, <i>Coal-shoveller.</i>	Coal	Whilst deceased was at work in an 'opening,' 36' x 30' x 12' high, about a ton of coal fell from the roof without warning. He was killed on the spot. Inspection and inquiry made.

11	28th February, 11-30 A.M.	Alkusa mine, Kusunda P. O., Bihar and Orissa.	Kanga & Co.	Chaman Rai Rajwar, (m.), 30, <i>Coal-cutter.</i>	Coal	Deceased, with three other coal-cutters, was employed in cutting roof coal, 3' thick, in a gallery adjoining an open quarry. He under-cut the side and caused a block of coal, 3' 0" x 3' 0" x 2' 6", which came away from a 'slip,' to fall upon him from a height of 10 feet. He sustained injuries which terminated fatally an hour later. Inspection and inquiry made.
12	20th February, 10 P.M.	Jainty Central mine, Karmatar P. O., Bihar and Orissa.	Jainty Central Colliery, Ld.	Ugan Chamar, (m.), 35 ; Bana Meah, (m.), 34, <i>Coal-cutters.</i>	Coal	The deceased, and two other persons who were injured, broke down a fence and entered a gallery in which the roof was unsafe and were cutting loose side coal, when a mass of shaly roof, measuring 10' 0" x 7' 0" x 1' 6", fell suddenly upon them, from a height of 6' 0". The deceased sustained serious internal injuries. One died four hours and the other four days later. The injured persons sustained serious abrasions on the head and body. Inspection and inquiry made.
13	28th February, 1-30 P.M.	Radhaballabpur mine, Samdi P. O., Bengal.	J. Boisogomoff & Co.	Sam Manjhi, (m.), 25, <i>Coal-cutter.</i>	Coal	Deceased, a coal-cutter, went with a miner through a fence into some disused workings, to rob coal from the corner of a pillar. A mass of roof coal, measuring 6' 0" x 3' 0" x 1' 0", fell from a height of 8' 0" and struck deceased. He sustained serious injuries and died in his village several days later. Inspection and inquiry made.
14	2nd March, 4-30 P.M.	Babisol mine, Raniganj P. O., Bengal.	Bilbera Coal Co., Ld.	Shan Manjhi, (m.), 35, <i>Coal-cutter.</i>	Coal	Deceased, hearing the roof "weighting" near his working place, lost his head and ran into danger. A mass of roof coal, measuring 10' 0" x 5' 0" x 3' 0", fell suddenly from a height of 7' 6". He was buried under the fall and killed instantly. Inspection and inquiry made.
15	16th March, 9-30 A.M.	Cradock mine, Pench P. O., Central Provinces.	Central Pench Coal Co., Ld.	Kulu Gond, (m.), 18, <i>Timbering coolie.</i>	Coal	Timber was being extracted in a goaf, and, as the last prop was withdrawn, deceased bent down to pick up a wedge. While doing so a mass of stone, measuring 4' 0" x 3' 0" x 1' 0", fell from a height of 4 feet upon him. He received injuries which resulted in his death an hour later. Inspection and inquiry made.
16	21st March, noon.	Central Dharmaband mine, Katrasgarh P. O., Bihar and Orissa.	Central Dharmaband Coal Co., Ld.	Bhika Manjhi, (m.), 40, <i>Miners' Sirdar.</i>	Coal	Deceased broke down a fence and entered old workings, where he began to rob coal from the side of a pillar. Whilst so engaged, a mass of roof stone, measuring 9' 0" x 9' 0" x 0' 5" thick, fell upon him. He was killed on the spot. Inspection and inquiry made.
17	4th April, 12-45 P.M.	Tikak (Lower) mine, Margherita P. O., Assam.	Assam Railways and Trad- ing Co., Ld.	Lalbir Kama (Nepali), (m.), 28, <i>Tub-filler.</i>	Coal	Whilst deceased was loading coal in an "opening," 40' x 16' x 5' to 16' high, he was killed by a mass of 30 cwts. of coal, which fell from the roof 12 feet above, without warning. Inspection and inquiry made.
18	18th April, 4 P.M.	Jharia Khas mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ld.	Panchkouri Ruhidas, (m.), 20, <i>Miner.</i>	Coal	Deceased, against orders, entered a gallery to load some coal which had been blasted down. Whilst so employed, a piece of roof coal, measuring 1' 9" x 0' 10" x 0' 4", fell upon him from a height of 12 feet. He sustained a compound fracture of the leg and died on the following day. Inspection and inquiry made.
19	15th April, 2 A.M.	Banksimula mine, Charanpur P. O., Bengal.	Bengal Coal Co., Ld.	Bhatu Bhooria, (m.), 35, <i>Propping coolie.</i>	Coal	Deceased, whilst assisting the sirdar and propping carpenter to withdraw props in a goaf, was in the act of loosening the ground at the foot of a prop, when a piece of coal, measuring 2' 6" x 1' 6" x 1' 6", fell from the roof at a height of 12 feet, struck another prop and rebounded on to deceased, causing serious injuries from which he died 25 minutes later. Inspection and inquiry made.
20	19th April, 9 A.M.	North Mudidih mine, Sijua P.O., Bihar and Orissa.	Reliance Coal Co., Ld.	Dinnu Kole, (m.), 40, <i>Miner.</i>	Coal	Deceased went behind a fence into a goafed area to rob coal, and was killed by a large fall of roof, which took place suddenly in the goaf. Inspection and inquiry made.

APPENDIX II—contd.

Fatal accidents, 1918—contd.

Serial No.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral wrought.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—contd.						
(a) Falls of roof—contd.						
21	25th April, 4-30 P.M.	Ekra mine, Bansjora P. O., Bihar and Orissa.	Maharaja M. C. Nandi	Somi Baurin, (f.), 25; Jugal Bauri, (m), 18, <i>Coal-carriers.</i>	Coal.	The deceased were walking along a travelling road, when a mass of coal measuring 14' 0" x 14' 0" x 1' 6", fell from a height of 5' 6" upon them. The woman was killed outright and the man succumbed to his injuries two days later. Inspection and inquiry made.
22	10th April, 10-30 A.M.	Dobalia mine, Kalipahari P. O., Bengal.	Dobalia Coal Co.	Boku Kora, (m.), 45, <i>Minor.</i>	Coal.	Deceased crossed a fence to rob coal in a goafed area. Whilst so doing, a mass of roof stone fell through a distance of 6 feet upon his leg and fractured it. He died 13 hours later. Inspection and inquiry made.
23	18th April, 10 A.M.	Namdang mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ltd.	Golla Passi, (m.), 24, <i>Contractor's Sirdar.</i> Sankar Kairi, (m.), 35, <i>Tub-pusher.</i>	Coal.	The two deceased were standing near a tub, which was being loaded on a road, 8' 0" wide and 5' 0" high, when a slab of coal 1' 0" thick and weighing about half a ton, fell from the roof. Golla Passi sustained an injury to the head and died in hospital two days later. Sankar Kairi was seriously injured and died in hospital three days later. Inspection and inquiry made.
24	6th May, 1 P.M.	Hatnol mine, Barakar P. O., Bengal.	M. L. Laik & Bros.	Bipin Mahato, (m.), 38, <i>Coal-cutter</i> ; Ghanasham Chamar, (m.), 35, <i>Carpenter's coolie</i> ;	Coal.	Timbers were being set under the roof coal in a goafing district, prior to extracting two small pillars of coal. The deceased coal-cutter, in spite of being warned not to do so, commenced to cut coal before all the necessary props had been set. One of the 'atooks' collapsed and a mass of roof coal, measuring 16' 0" x 18' 0" x 2' 6", fell from a height of 8' 0" on to him and on to the other deceased, killing them instantly. Inspection and inquiry made.
25	27th April, 9-30 A.M.	Chasnalla mine, Jharua P. O., Bihar and Orissa.	Lodna Colliery Co., Ltd.	Goman Meah, (m.), 35, <i>Miner.</i>	Coal.	Deceased and a companion were dressing the sides and roof of a gallery, in which there was a pronounced "slip" in the roof. Deceased had sat down to smoke under the place where his companion had been working in the roof, when a mass of roof coal, weighing about 6 cwts., fell from a height of 6 feet upon him. He sustained a fracture of the spine, and died 10 days later. Inspection and inquiry made.
26	15th May, 5 P.M.	Sudrendih mine, Nowagarh P. O., Bihar and Orissa.	Jainarayan Ramjash Agarwalla.	Nema Roy, (m.), 33, <i>Miner.</i>	Coal.	Deceased and another man, who was injured, were working in a gallery, when a mass of stone suddenly fell from between two converging 'slips' in the roof. The mass weighed about a ton and fell from a height of 7 feet. Inspection and inquiry made.
27	23rd May, 6 A.M.	Alkusa South mine, Kusunda P. C., Bihar and Orissa.	Raniganj Coal Association, Ltd.	Jhaksi, (f.), 17, <i>Coal-carrier.</i>	Coal.	Whilst deceased was walking through a gallery, a mass of coal, measuring 5' 0" x 2' 0" and tapering to a point, fell upon her from a height of 14 feet. She was killed instantly. Inspection and inquiry made.

28	20th May, 5 A.M.	Jamuria mine, Nandi P. O., Bengal.	Equitable Coal Co., Ld.	Churu Manjhi, (m.), 40, <i>Coal-cutter.</i>	Coal .	Deceased went inside a fence, on the edge of a goaf, to cut coal from the corner of a pillar. A mass of overhanging roof coal fell upon him from a height of 8 feet, killing him instantly. Inspection and inquiry made.
29	6th June, 3-30 P.M.	Bhuggudih mine, Jharia P. O., Bihar and Orissa.	Bengal-Nagpur Coal Co., Ld.	Khudi Mallik, (f.), 25, <i>Coal-carrier.</i>	Coal .	Deceased was seriously injured by a fall of roof coal, measuring 2' 0" x 12' 0" to 6' 0" x 3' 0" thick, which occurred near a pillar which was being extracted. She died from shock the same day. Inspection and inquiry made.
30	21st June, 8-30 A.M.	Loyabad mine, Bansjora P. O., Bihar and Orissa.	Burrakur Coal Co., Ld.	Ramabatar Mudi, (m.), 33, <i>Hookman.</i>	Coal .	Whilst deceased and two companions were at work at the junction of four roads in a haulage incline, a mass of roof stone, measuring 15' 0" x 14' 0" x 1' 9" to 0' 3", fell upon them from a height of 7' 6". Deceased was killed instantly, whilst his two companions were injured. Inspection and inquiry made.
31	28th June, 11 A.M.	Rampur mine, Asansol P. O., Bengal.	A. N. Sircar & Co. . .	Prasanna Bauri, (m.), 30, <i>Miner.</i>	Coal .	Deceased passed over a fence to rob some fallen coal lying in a goaf. Whilst so engaged, a mass of roof coal, weighing about 6 tons, fell from a height of 18 feet upon him. He was killed instantly. Inspection and inquiry made.
32	26th June, 3 A.M.	Ledo Valley mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ld.	Gorey Mager, (m.), 36, <i>Tub-filler.</i>	Coal .	Deceased was filling baskets at the entrance of an opening, which was 20 feet high. About 3 cwts. of coal dirt fell on to him without warning, causing injuries from which he died while being taken to hospital.
33	9th July, 6-30 A.M.	Chanch mine, Chirkunda P. O., Bihar and Orissa.	Bengal Coal Co., Ld.	Kedar Bauri, (m.), 28, <i>Coal-cutter.</i>	Coal .	Deceased was in the act of robbing the corner of a pillar on the side of a tram line, when a mass of stone, measuring 4' 0" x 2' 6" x 0' 7", fell from a height of 8 feet on to him, fracturing his spine and killing him instantly. Inspection and inquiry made.
34	10th July, 9 P.M.	Craddock mine, Pench P. O., Central Provinces.	Central Pench Coal Co., Ld.	Dulli Ahir, (m.), 25, <i>Coal-cutter.</i>	Coal .	Deceased crossed a fence to collect loose coal in goaf. He had been warned not to do so. He was caught by a slab of stone, which fell from the roof, and died two days afterwards from the injuries he received. Inspection and inquiry made.
35	16th July, 5-31 A.M.	Huntodi mine, Mohuda P. O., Bihar and Orissa.	Huntodih Coal Co., Ld.	Muktear Meah, (m.), 24, <i>Fitter's labourer.</i>	Coal .	Whilst deceased, with a pump-attendant, was on duty at an underground pump, a mass of roof coal, 29' 0" x 10' 0" x 0' 7" thick, fell from a height of 10 feet. Deceased was killed on the spot. The other man was only slightly injured. Inspection and inquiry made.
36	21st July, 5-30 A.M.	Nursumuda mine, Asansol P. O., Bengal.	Sitarampur Coal Co., Ld.	Matak Manjhi, (m.), 25, <i>Coal-cutter.</i>	Coal .	Deceased was robbing a pillar in a fenced area when a large mass of stone, measuring 14' 0" x 2' 0" x 1' 0", fell on to him from a hidden 'slip' in the roof through a distance of 3' 9". He was killed instantly. Inspection and inquiry made.
37	19th July, 1 P.M.	Asansol mine, Asansol P. O., Bengal.	Ghoseick Muslia Collieries, Ld.	Chunika Manjhi, (m.), 21, <i>Coal-cutter.</i>	Coal .	Deceased was robbing the corner of pillar in a main road when a large piece of stone, measuring 7' 6" x 2' 0" x 1' 6", fell from a height of 3' 9" on to him. He was killed instantly. Inspection and inquiry made.
38	26th July, 0-30 A.M.	Katras mine, Katrasgarh P. O., Bihar and Orissa.	Nowagarh Coal Co., Ld.	Doyal Jeswari, (m.), 26, <i>Coal-cutter.</i>	Coal .	Whilst deceased was engaged in robbing coal from the side of a tramping level, a slab of roof stone, 14' 0" x 0' 6" to 0' 30" wide x 0' 2" thick, fell on to him. He sustained injuries to which he succumbed four days later. Inspection and inquiry made.
39	31st July, 2 P.M.	Jainty Central mine, Kamatar P. O., Bihar and Orissa.	Jainty Central Coal Co., Ld.	Mahabir Kole, (m.), 28, <i>Miner.</i>	Coal .	Deceased was dressing the side of a gallery. While so doing a mass of stone, measuring 5' 0" x 5' 0" x 0' 6", fell from a hidden 'slip' through a height of 6' 6" on to him. He was killed instantly. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents, 1918—contd.

Serial No.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral wrought.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—contd.						
<i>(a) Falls of roof—contd.</i>						
40	27th August, 9-30 A.M.	Churulia mine, Panuria P. O., Bengal.	Churulia Coal Co., Ld.	Ajudhya Sutradhar, (m.), 30, Carpenter; Mahesh Bauri, (m.), 36, Main heading driver.	Coal	The deceased, although they had been previously warned, passed under some roof which was being dressed. Whilst so doing a mass of stone, measuring 4' 0" x 2' 6" x 0' 5", fell on to them from a height of 7' 6". They died 10 and 15 days later, respectively. Inspection and inquiry made.
41	1st September, 7 A.M.	Ramnagar mine, Kulti P. O., Bengal.	Bengal Iron and Steel Co., Ld.	Dhena Manjhi, (m.), 24, Miner.	Coal	Whilst deceased and 5 companions were extracting a pillar, a 'weight' came on. In attempting to get to the surface through an old subsidence, a piece of stone, measuring 6' 0" x 4' 0" x 3' 0", fell on to him from the roof through a distance of about 10 feet. He was killed instantly. Inspection and inquiry made.
42	11th September, 2-30 P.M.	Benali mine, Raneeganj P. O., Bengal.	Phularitand Coal Co., Ld.	Ishor Hari, (m.), 30, Coolie.	Coal	Whilst deceased was clearing a fall of roof, another fall occurred. He was struck by a piece of stone, weighing about 480 lbs. which fell from a height of 12 feet. He was killed instantly. Inspection and inquiry made.
43	29th August, 7-15 A.M.	Kalimati mine, Kalimati P. O., Bihar and Orissa.	Indian Mineral Syndicate	Batcha, (m.), 29, Timber-coolie.	Wolfram	Deceased and three other coolies, while changing timbers in an inclined shaft, were caught by a sudden fall of clay from the hanging wall. Deceased succumbed to a fractured skull, the three other coolies being injured.
44	9th September, 12-30 P.M.	Kalithan Suratand mine, Jharia P. O., Bihar and Orissa.	K. B. Seal	Chandmoni Majhian, (f.), 30, Coal-carrier.	Coal	While coal-cutters were engaged in extracting a pillar of coal, a slab of shale, 28' 0" x 8' 0" x 0' 9" thick, fell from the roof, 10 feet above, dislodging five props. Deceased was buried under the slab and was killed on the spot. Inspection and inquiry made.
45	12th September, 7 A.M.	Babisole mine, Ondal P. O., Bengal.	Bilbera Coal Co., Ld.	Bondhu Muchi, (m.), 18, Coal-carrier.	Coal	Deceased, in spite of being warned not to do so, walked under some shaly roof stone which was being dressed down. A piece, measuring about 1' 8" x 1' 8" x 0' 6", fell on to him from a height of 9 feet. He sustained a fracture of the right thigh and left collar bone and died three days later. Inspection and inquiry made.
46	17th September, 10-45 A.M.	New Kessurgarah mine, Kattasgarh P. O., Bihar and Orissa.	New Kessurgarah Coal Co., Ld.	Mukti Kunharin, (f.), 18; Chotua Musalmani, (f.), 14, Coal-carriers.	Coal	The deceased were employed in carrying coal in a pillar extraction district. Whilst they were resting, a mass of roof coal, 20' 0" x 20' 0" x 3' 0" thick, fell on to them from a height of 10 feet. They were killed instantly. Inspection and inquiry made.
47	10th September, 9 P.M.	Damodarapur mine, Nandi P. O., Bengal.	Bengal Coal Co., Ld.	Ram Prosad Singh, (m.), 36, Sirdar.	Coal	Whilst deceased was sounding some weak roof, a piece of shale, measuring 3' 0" x 2' 0" x 0' 2½", fell through a distance of 3 feet on to him. He sustained injuries to the spinal cord and died shortly afterwards. Inspection and inquiry made.

48	20th September, 1-30 P.M.	Mudidih (North) mine, Sijua P. O., Bihar and Orissa.	Reliance Coal Co., Ld.	Nobin Teli, (m.), 22, <i>Coal-cutter.</i>	Coal	Whilst deceased was engaged in cutting side coal on a haulage road 6 feet in height, a mass of stone, 21' 0" x 1' 6" to 7' 6" x 2' 0" thick, fell from between "slips" in the roof. He sustained injuries to which he succumbed five days later. Inspection and inquiry made.
49	27th September, 3-30 P.M.	Sripore mine, Kalijahari P. O., Bengal.	Lodna Colliery Co., Ld.	Atu Kusi, (m.), 45, <i>Shotfirer.</i>	Coal	Deceased was a shotfirer. He had fired 3 shots in the base of a "stook" of coal, and had returned to prepare five others. Whilst so doing, the roof came on 'weight' and fell on to him. He was killed instantly. Inspection and inquiry made.
50	1st October, 6 P.M.	Nandi mine, Nandi P. O., Bengal.	Adjai Coal Co., Ld.	Sahab Mahato, (m.), 30, <i>Propping carpenter.</i>	Coal	Deceased with others was engaged in drawing the timbers surrounding a "stook" of coal about 6 feet square. Eighteen props had been withdrawn, when the sound of the roof "weighting" was heard in the goaf. All made a dash for safety, but deceased was completely buried under a mass of roof which fell. Another man sustained a few minor injuries. Inspection and inquiry made.
51	11th October, 3 P.M.	Lutchipur mine, Sitarampur P. O., Bengal.	Lutchipur Coal Co., Ld.	Lakhi Bhumij, (f.), 32, <i>Coal-carrier.</i>	Coal	Deceased was filling a basket of coal, when a mass of roof coal, weighing about a ton, fell from a height of 14 feet. A piece of the coal rolled over and struck her in the back, causing severe internal injuries from which she died four hours later. Inspection and inquiry made.
52	7th October, 11-30 A.M.	Hpaungdaw mine, Tavoy P. O., Burma.	London and Burmese Wolfram Co., Ld.	Jit Singh, (m.), 25, <i>Timberman.</i>	Wolfram	Deceased was setting timber in a drive and was killed by a fall of soft earth from the roof.
53	25th October, 11 A.M.	Kustore (North) mine, Kustore P. O., Bihar and Orissa.	Raniganj Coal Association, Ld.	Charan Mahato, (m.), 18, <i>Coal-carrier.</i>	Coal	Deceased was loading some roof coal, which had been got down, when a piece of coal, measuring 5' 0" x 4' 0" x 0' 10", fell from a height of 10 feet, without any warning. A piece of the coal struck deceased on the back and fractured his spine. He died one hour later. Inspection and inquiry made.
54	28th October, 2-30 P.M.	Kendwadih mine, Kusunda P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Luki Roy, (m.), 16, <i>Coal-carrier.</i>	Coal	Deceased was loading coal under, or close to, where roof coal was being cut. A piece of coal, measuring 3' 0" x 2' 9" x 1' 0", fell from concealed "slips," through a height of 8 feet and struck him on the head, killing him instantly. Inspection and inquiry made.
55	28th October, 6 P.M.	Begunia Khas mine, Barakar P. O., Bengal.	Maharajah M.C. Nandi	Josoda Baurin, (f.), 42, <i>Coal-carrier.</i>	Coal	Deceased was loading a tub of coal on an underground siding, when a mass of roof coal, measuring 45' 0" x 10' 0" x 1' 2", liberated from a concealed "slip", fell from a height of 6 feet, killing her instantly. Inspection and inquiry made.
56	24th October, 4-30 P.M.	Kalabagh mine, Khewra P. O., Punjab.	Government of India	Rah Nawaz Mohomed, (m.), 38, <i>Miner.</i>	Salt	Deceased was killed by a fall of rock salt, weighing about two tons, from the roof, from a height of 10 feet. Inspection and inquiry made.
57	12th November, 4-10 P.M.	Ramnagar mine, Kulti P. O., Bengal.	Bengal Iron and Steel Co., Ld.	Mohi Tusi, (f.), 23, <i>Coal-carrier.</i>	Coal	Deceased went behind a fence into a goaf. Whilst there, a mass of stone, measuring about 15' 0" x 3' 0" x 2' 0", fell from the roof. She was caught by the edge of the fall and killed instantly. Inspection and inquiry made.
58	16th November, 7-30 A.M.	Bhatdih mine, Mohuda P. O., Bihar and Orissa.	Bengal Bhatdih Coal Co., Ld.	Suklal Bauri, (m.), 38, <i>Coal-cutter.</i>	Coal	Deceased went through a fence and commenced to cut coal from a partially extracted pillar, measuring 15' 0" x 6' 0" at the top and 8' 0" x 4' 0" at the base. The "stook" collapsed of its own weight and fell on to him. He was killed instantly. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents, 1918—contd.

Serial No.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral wrought.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—contd.						
Falls of roof—concl'd.						
59	16th November, 3 P.M.	Bhaga mine, Jharia P. O., Bihar and Orissa.	Lodna Colliery Co., Ltd.	Dukhan Bhuia, (m.), 55, Coal-cutter.	Coal	Deceased was dressing side coal near the face of a main gallery, when a piece of roof stone, measuring 4' 0" x 2' 0" x 0' 8", fell from a concealed "slip" at a height of 6 feet and struck him on the head, fracturing his skull. He died 2½ hours later. Inspection and inquiry made.
60	10th November, 6 A.M.	Ledo Valley mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ltd.	Lulbir Kumal, (m.), 35, Basket-filler.	Coal	While deceased was filling a basket in an 'opening,' 16 feet high, he was killed by a fall of 5 tons of roof coal.
61	18th November, 11-30 P.M.	Choitodih mine, Katrasgarh P. O., Bihar and Orissa.	Messrs. Tata Iron and Steel Co., Ltd.	Latu Chamar, (m.), 38, Coal-cutter.	Coal	Deceased went inside a fence and was cutting overhanging side coal in a disused gallery, when a piece of coal, measuring 4' 0" x 2' 0" x 1' 6", broke away and fell on to him. He sustained a compound fracture of the right arm and severe injuries to the head and died in hospital five days later. Inspection and inquiry made.
62	4th December, 1-30 P.M.	Jamuria mine, Nandi P. O., Bengal.	Equitable Coal Co., Ltd.	Mohan Kole, (m.), 35, Miner. Marti Mejhian, (f), 20; Kirodee Mejhian, (f), 18, Coal-carriers.	Coal	The three deceased were loading fallen roof coal in a fenced-off goaf. A mass of roof coal fell on to them from a height of 10' 6". They were killed instantly. Inspection and inquiry made.
63	13th December, 2-30 P.M.	Tikak Lower mine, Margherita P. O., Assam.	Assam Railways and Trad- ing Co., Ltd.	Mangal Darjee, Nepali, (m.), 24, Basket-filler.	Coal	While deceased was filling coal in an 'opening,' 20 tons of coal fell from the roof of the 'opening' and killed him instantly.
64	24th December, 4-15 P.M.	Nundi mine, Jamuria P. O., Bengal.	Adjai Coal Co., Ltd.	Betul Chamar, (m.), 38, Underground Sirdar.	Coal	Deceased was engaged in withdrawing timbers from under roof coal at the edge of a goaf, when a mass of coal broke away suddenly. Several props were swayed out and deceased was struck down and killed instantly before he could escape. Inspection and inquiry made.
65	21st December, 3 P.M.	Katras mine, Katrasgarh P. O., Bihar and Orissa.	Nowagarh Coal Co., Ltd.	Bhim Meah, (m.), 28, Roof-dresser.	Coal	Whilst deceased was walking into the 'workings,' he was killed by the fall of a mass of stone, 13' 0" x 5' 6" x 1' 6", which fell from the roof 5 feet above. Inspection and inquiry made.
(b) Falls of sides—(56 deaths).						
66	8th January, 12-30 P.M.	Khas Jharia mine, Jharia P. O., Bihar and Orissa.	Khora Ramji	Matla Manjhi, (m.), 24, Coal-cutter.	Coal	Deceased was ordered to cut coal inside a gallery which was being driven through the middle of a pillar. He disobeyed orders and undermined the corner of the pillar until a mass of about one ton of coal fell from a 'slip.' The coal fell on to him from a height of 9 feet. He sustained injuries which resulted in death within half an hour. Inspection and inquiry made.

67	26th January, 0-5 A.M.	Charanpur mine, Charanpur P. O., Bengal.	Reliance Coal Co., Ltd.	Bisau Turi, (m.), 28, <i>Miner.</i>	Coal .	Deceased was killed by a mass of overhanging coal, measuring 7' 0" x 6' 6" x 4' 6", falling from between two converging "slips" in a pillar under extraction. Inspection and inquiry made. (<i>See Report, page 8.</i>)
68	31st January, 10 A.M.	Joyramdanga mine, Asansol P. O., Bengal.	New Beerbhun Coal Co., Ld.	Bomba Turi, (m.), 32, <i>Miner.</i>	Coal .	The deceased and another man were cutting the corner of a pillar which formed the support for some roof coal. They had been previously warned not to do so. Whilst so doing, a mass of 10 tons of coal fell on to them. Deceased was killed instantly, and his companion was seriously injured. Inspection and inquiry made.
69	22nd February, 5-15 A.M.	Bagdigari mine, Jharia P. O., Bihar and Orissa.	C. J. Smith	Khudu Deswali, (f.), 30, <i>Coal-carrier.</i>	Coal .	Deceased carried coal for two coal-cutters, who were employed in dressing down overhanging coal from a pillar. Whilst sitting down at the corner of the opposite pillar, she was killed on the spot by a mass of coal, weighing about $\frac{3}{4}$ ton, which fell from a height of 22 feet. Inspection and inquiry made.
70	20th February, 3 P.M.	Phuletto mine, Tavoy P. O., Burma.	Phuletto Mining Syndicate	Whar Nar, (m.), 29, <i>Mining coolie.</i>	Wolfram .	Whilst deceased was drilling in an open cut, half a ton of earth fell on him from a height of 9 feet. He sustained injuries from which he died three months afterwards. His party had been instructed to bar down this particular piece of side, but had neglected to do so.
71	2nd March, 10 P.M.	Tikak (Upper) mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ld.	Chatbhakta Brahmin (Nepali), (m.), 25, <i>Tub-filler.</i>	Coal .	Whilst deceased was loading coal in an 'opening,' 18' 0" x 15' 0" x 6' 0" high, he was injured by a mass of about 1 cwt. of coal, which fell from the side. He died a month later. Inspection and inquiry made.
72	6th March, 3 A.M.	Ekra Khas mine, Bansjora P. O., Bihar and Orissa.	Maharaja M. C. Nandi .	Anu Manjhi, (m.), 25, <i>Coal-cutter.</i>	Coal .	Deceased was told to cut floor coal in a gallery. During the absence of the officials he left his working place, broke down a fence and began to cut coal from the corner of a pillar. He was killed on the spot by a mass of coal, weighing about 6 tons, which fell on to him from a height of 20 feet. Inspection and inquiry made.
73	7th March, 4 A.M.	Lodna mine, Jharia P. O., Bihar and Orissa.	Lodna Colliery Co., Ld. .	Gubi Bauri, (m.), 32, <i>Coal-cutter.</i>	Coal .	Deceased and another coal-cutter, with four female carriers, were employed in dressing a pillar, 26 feet high, in old workings. They left their appointed working place and undermined the corner of another pillar, until a fall of about 10 tons of coal occurred. They were struck by the falling coal. Deceased died a few hours later and the other man was seriously injured. Inspection and inquiry made.
74	15th March, 1 P.M.	Alkusa mine, Kusunda P. O., Bihar and Orissa.	Kanga & Co.	Pitan Rai, (m.), 35, <i>Coal-cutter.</i>	Coal .	Whilst robbing coal from a pillar, deceased was struck by a mass of about 10 cwt. of coal, which fell from the side, from a height of 10 feet. He died about three hours later. Inspection and inquiry made.
75	2nd April, 2 P.M.	Ena mine, Jharia P. O., Bihar and Orissa.	North-West Coal Co., Ld.	Kubir Bauri, (m.), 18, <i>Coal-cutter.</i>	Coal .	Deceased was ordered to cut floor coal in a gallery, 15 feet high. He undermined the corner of a pillar close to his working place and brought about the fall of a mass of about 5 tons of coal. He was struck by the falling coal and suffered injuries, to which he succumbed an hour later. Inspection and inquiry made.
76	27th March, 8-30 A.M.	Pagaye mine, Tavoy P. O., Burma.	Rangoon Mining Co., Ld.	Aunontaw Muduly, (m.), 25; Bendiah Bhoj, (m.), 28, <i>Contractor's coolies.</i>	Wolfram .	The two deceased were under-cutting the side of an open working with the result that a fall of side occurred and buried them. They were killed instantly.
77	16th May, 10 A.M.	New Peepratand mine, Mohuda P. O., Bihar and Orissa.	P. Mukherji & Co.	Chotu Mahato, (m.), 30, <i>Earth-cutter.</i>	Coal .	Deceased was cutting a foundation trench in an incline. Whilst so doing, a mass of earth, weighing about 2 cwt., fell from the side on to him. He died 12 hours later. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents, 1918—contd.

Serial No.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral wrought.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—contd.						
<i>(b) Falls of sides—contd.</i>						
78	20th May, 11-30 A.M.	North Lutechipur mine, Sitarampur P. O., Bengal.	North Lutechipur Coal Co.	Manik Manjhi, (m.), 25; Badan Manjhi, (m.), 18, <i>Coal-cutters.</i>	Coal .	The two deceased, with other persons, were at work removing a mass of stone and earth which had fallen from the side of an incline cutting 30 feet deep, when another "slip" occurred, and five of them were partially buried under the fall. The two deceased died from the injuries they received and the three others were injured. Inspection and inquiry made.
79	14th May, 10-30 A.M.	Pagaye mine, Tavoy P. O., Burma.	Bombay-Burmah Trading Corporation, Ltd.	Dasco, (m.), 30; Bhimon, (m.), 25, <i>Tributors.</i>	Wolfram .	The two deceased, although warned to cease, continued to work in a cutting which had become dangerous, were instantly killed by a large fall of side. Inspection and inquiry made.
80	6th May, 1 P.M.	Tagu Mayingyi mine, Mergui P. O., Burma.	U. Shwe Thi . . .	Maung Zan, (m.), 25; Ba Kin, (m.), 27, <i>Miner's tributors.</i>	Wolfram .	The two deceased and another man, who was injured, took refuge from the heat of the day in an abandoned drift. While they were sitting there a collapse of the sides of the drift occurred and they were buried under the fall, being found to be dead when extricated half an hour afterwards.
81	29th May, 9-30 A.M.	Bhowra mine, Jamaoba P. O., Bihar and Orissa.	Eastern Coal Co., Ltd.	Nago Bhuiya, (m.), 34, <i>Miner.</i>	Coal .	Whilst a miner, against orders, was under-cutting a pillar, a large mass of coal, weighing about 1½ tons, fell from the face of the pillar to the ground and knocked out 3 props. Deceased and another man were struck by two of the falling props, the former being instantly killed whilst the latter received severe scalp wounds. Inspection and inquiry made.
82	31st May, 1-30 P.M.	Charanpur mine, Charanpur P. O., Bengal.	Reliance Coal Co., Ltd.	Lakhi Majbian, (f.), 30, <i>Coal-carrier.</i>	Coal .	Deceased, against orders, started to load some coal which had been blasted down from a pillar in course of extraction, before the roof and side had been examined. A piece of coal, measuring 2' 0" × 1' 9" × 0' 9", fell from a height of 10 feet, ricocheted and struck her on the left leg. She sustained a comminuted fracture and died of heart failure thirty-five hours later. Inspection and inquiry made.
83	5th May, 1 A.M.	Alkasa North mine, Kusunda P. O., Bihar and Orissa.	Raniganj Coal Association, Ltd.	Kola Meah (m.), 18, <i>Coal-carrier.</i>	Coal .	Deceased was killed by a mass of side coal, weighing about 2½ tons, which fell from the side of a pillar on to him. It was suspected that he was robbing the pillar at the time. Inspection and inquiry made.
84	26th May, 2 P.M.	Pagaye mine, Tavoy P. O., Burma.	Rangoon Mining Co., Ltd.	Khaytoo Boonyar, (m.), 30, <i>Contractor's coolie.</i>	Wolfram .	Whilst deceased was working in an "open cut" a large mass of loose rock suddenly split away from the side and killed him instantly. Inspection and inquiry made.

85	29th June, 4 A.M.	Lodna mine, Jharia P. O., Bihar and Orissa.	Lodna Colliery Co., Ltd.	Bhagwandin Passi, (m.), 38, Coal-cutter.	Coal	Deceased was standing on a ladder and engaged in drilling a shot-hole in overhanging coal in a gallery 27 feet high. Part of the coal, measuring 12' 0" × 6' 0" × 3' 0" and weighing 8 tons, fell prematurely. He was struck down and sustained injuries to which he succumbed within half an hour. Inspection and inquiry made.
86	29th June, 3 P.M.	South Kujama mine, Jharia P. O., Bihar and Orissa.	Bagdiggi Kujama Collieries, Ltd.	Ganu Mallik, (m.), 27, Coal-cutter.	Coal	Deceased was one of a gang of eight coal-cutters employed in extracting a pillar in a "working," 15 feet high. He went through a fence into the goaf and began to rob coal from the reverse side of the pillar. A mass of some four tons of coal fell on to him from the side at a height of 4 feet. He was severely injured and died within an hour. Inspection and inquiry made.
87	29th June, 10 A.M.	Borrea mine, Sitarampur P. O., Bengal.	New Beerbhun Coal Co., Ltd.	Gopi Manjhi, (m.), 25, Coal-cutter.	Coal	Deceased was dressing down some overhanging coal from the side of a pillar, in course of extraction, when a portion of it, measuring 8' 0" × 3' 0" × 5' 0", fell over without warning from a height of 10 feet. His right leg was pinned under the coal. He sustained a comminuted fracture of the right leg and died on the way to hospital, four and half hours later. Inspection and inquiry made.
88	3rd July, 1-30 P.M.	Zawe mine, Mergui P. O., Burma.	Saw Lein Lee	Mg. Bwin, (m.), 40, Mining coolie.	Wolfram	Deceased was going to his work up the side of a steep excavation. He was struck by a landslip and buried in the excavation, dying of suffocation.
89	6th July, 3 P.M.	Barari mine, Jharia P. O., Bihar and Orissa.	East Indian Coal Co., Ltd.	Sashi Bawin, (f.), 22, Coal-carrier.	Coal	While a coal-cutter was robbing coal from the side of a pillar, 24 feet high, and his wife was loading the coal on to a basket, a mass of coal, 15' 0" × 10' 0" × 1' 6" thick, fell on to her from a height of 4 feet. She was killed on the spot. Inspection and inquiry made.
90	13th July, 2 P.M.	Lutchipore mine, Sitarampur P. O., Bengal.	Lutchipore Coal Co., Ltd.	Gonga Roy, (f.), 35, Coal-carrier.	Coal	Deceased went through a fence to rob loose coal from the side of a pillar. A mass of side coal, measuring 12' 0" × 9' 0" × 1' 0", fell over and a portion of it struck her before she could escape, causing internal injuries from which she died 18 hours later. Inspection and inquiry made.
91	22nd July, 8-30 A.M.	Shivrajpur mine, Shivrajpur P. O., Bombay.	Shivrajpur Syndicate, Ltd.	Mohidin Gutti, (m.), 35, Timberman; Ramdeo Gopi, (m.), 25, Assistant Timberman.	Manganese	While the two deceased were preparing the ground for putting new timbers, they were caught by a fall of side. Mohidin Gutti was killed instantly and Ramdeo Gopi died in half an hour. Inspection and inquiry made.
92	31st July, 6-30 A.M.	Jharia Khas mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ltd.	Jhari Bhoiya, (m.), 55, Coal loader.	Coal	While some pillars, 22 feet in height, were being extracted, a mass of side coal, weighing about 10 tons, fell from the side at a height of 6 feet. Deceased was struck down and killed on the spot. Inspection and inquiry made.
93	4th August, about 4-30 P.M.	Seibon mine, Tavoy P. O., Burma.	Moung Po U.	Moung San Yin, (m.), 32, Clerk; Moung Shwe E, (m.), 28, Coolie.	Tin	Whilst sluicing for tin ore in a drain, a mass of earth fell from the side, owing to an unusual fall of heavy rain, and killed the two deceased.
94	7th August, 1 P.M.	Balaghat mine, Balaghat P. O., Central Provinces.	Central Provinces Prospecting Syndicate, Ltd.	Jhalli, (f.), 55, Earth-worker.	Manganese	Deceased was sitting 5 feet from a rock face, 12 feet high. About 8 tons of rock suddenly fell from the face without warning and killed her.
95	7th August, 4-45 P.M.	Namdang mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ltd.	Birbahadur Kami, (m.), 32, Tub-filler.	Coal	Deceased was working in an 'opening' 18 feet high, and was injured by a piece of coal, about 182 lbs. in weight which rolled down the 'opening' on to him. He died a week later.

APPENDIX II—contd.

Fatal Accidents, 1918—contd.

Serial No.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral wrought.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—concl'd.						
<i>(b) Falls of sides—concl'd.</i>						
96	1st September, 6-30 A.M.	Sunkerpur mine, Ukhara P. O., Bengal.	Burn & Co., Ltd.	Bhagabati Sinha, (m.), 18, <i>Miner.</i>	Coal	Deceased went into a fenced area to rob a pillar. Whilst so doing, a mass of side coal, weighing about 3 tons, fell on to him. He died 17 hours later. Inspection and inquiry made.
97	12th September, 12-30 P.M.	Bhulanbararee mine, Jharia P. O., Bihar and Orissa.	Bhulanbararee Coal Co., Ltd.	Budhan Kole, (m.), 24, <i>Coal-cutter.</i>	Coal	Deceased passed through a fence into old workings and began to cut coal from the corner of a pillar, 28 feet high. He was killed by a mass of coal weighing about 4 tons, which fell from a height of 12 feet. Inspection and inquiry made.
98	14th September, 11-30 A.M.	Parbad (Pahari) mine, Jharia P. O., Bihar and Orissa.	Laxmi Colliery Co.	Piru Mahato, (m.), 20, <i>Earth-cutter;</i> Radhi Mahatan, (f.), 14, <i>Earth-carrier.</i>	Coal	Whilst the two deceased were loading a basket in a quarry, 23 feet to 55 feet deep, a slab of sandstone, 7' 0" x 3' 3" x 3' 0", fell from the side at a height of 4 feet. Radhi was killed on the spot and Piru died within half an hour. Inspection and inquiry made.
99	19th September, 3-30 P.M.	Bokaro mine, Bokaro P. O., Bihar and Orissa.	East Indian Railway Co., Ltd., and Bengal Nagpur Railway Co.	Sukia Kole, (f.), 14, <i>Earth-carrier.</i>	Coal	While working at the earth overburden, overlying the coal in an open working, deceased was killed by a fall of earth from the side, 9' 0" x 6' 0" x 0' 6".
100	20th October, 1 A.M.	Dishergarh mine, Dishergarh P. O., Bengal.	Equitable Coal Co., Ltd.	Lalla Maharaj, (m.), 40, <i>Underground Sirdar.</i>	Coal	Deceased was sounding the roof with a 'bunter,' preparatory to dressing down some loose coal on the side of a pillar, when a piece of coal, measuring about 4' 0" x 2' 0" x 1' 6", broke away. He slipped and fell and the coal rolled on to his left thigh, fracturing it. He died in hospital 30 hours later. Inspection and inquiry made.
101	22nd October, 3 P.M.	Bansjora mine, Bansjora P. O., Bihar and Orissa.	Bansjora Coal Co., Ltd.	Rasik Turi, (m.), 36, <i>Coal-cutter.</i>	Coal	A 6 feet "cut" was being taken at the top of a pillar in a seam, 24 feet in thickness. A piece of coal, weighing about 82 lbs., broke away from the side. Deceased who was working on a narrow ledge of coal, 4 feet in width, at the top of the pillar, jumped backwards to escape the falling coal and fell a distance of 18 feet to the ground. He sustained a compound fracture of the left leg and died in hospital three days later. Inspection and inquiry made. (<i>See Report, page 8.</i>)
102	25th October, 4 P.M.	Goneshpur mine, Katrasgarh P. O., Bihar and Orissa.	Economic Coal Co., Ltd.	Chatu Mahato, (m.), 26, <i>Coal-cutter.</i>	Coal	Deceased broke down a fence in a disused gallery and commenced to rob the corner of a pillar, when a mass of side coal, weighing about 2 tons, fell over on to him, killing him instantly. Inspection and inquiry made.
103	1st November, 6-45 A.M.	Ekra Khas mine, Bansjora P. O., Bihar and Orissa.	Maharaja M. C. Nandi	Siba Pandey (m.), 20; Fulo Singh, (m.), 40, <i>Coal-cutters.</i>	Coal	The two deceased, contrary to orders, were undercutting side coal in a quarry, when the coal and a portion of the overburden fell over and buried them. Siba Pandey was suffocated and Fulo Singh sustained serious injuries to the spine and died four days later. Inspection and inquiry made.

104	21st October, 11-30 A.M.	Taungpila mine, Tavoy P. O., Burma.	Quah Cheng Guan .	Maung Zone, (m.), 38, <i>Miner.</i>	Wolfram	Deceased, while working in an "open cut", 7 feet deep, was killed by a fall of the hanging wall, which he had undercut and had left unsupported. Inspection and inquiry made.
105	21st October, 7-30 A.M.	Meke Myebya mine, Tavoy P. O., Burma.	Lim Kyee Yan .	Maung Gyi, (m.), 30, <i>Mining-coolie.</i>	Wolfram	Deceased was working in an "open cut", the sides of which were 7 to 8 feet high. He was struck on the forehead by the handle of his pick, owing to a fall of earth, and rendered unconscious. He was then buried by a further fall. The body was recovered within 20 minutes of the accident, but life was found to be extinct.
106	26th October, 4 P.M.	Saphi mine, Rajauli P. O., Bihar and Orissa.	Radha Kanta Lal .	Barho Teli, (m.), 40, <i>Labourer.</i>	Mica	Deceased was struck by falling stone, from a height of 10 feet, from the side of the mine and succumbed to the injuries received. Another man was slightly injured.
107	9th November, 4-30 A.M.	Chanah mine, Chirkunda P. O., Bihar and Orissa.	Bengal Coal Co., Ltd.	Gubi Lohar, (m.), 29, <i>Miner.</i>	Coal	Deceased passed through a fence to rob some coal in a goaf. A mass of side coal, weighing about 2 tons, fell on to him from a height of 6 feet. He was killed instantly. Inspection and inquiry made.
108	14th November, 9 P.M.	Sikardih mine, Girdih P. O., Bihar and Orissa.	E. O. R. Myers .	Suke Roy, (m.), 36, <i>Coal-cutter.</i>	Coal	Deceased was bringing down some side coal which he had previously undercut. Whilst so doing, a mass of coal, weighing about 4 cwts., fell on to him from a height of 4 feet. He sustained a compound fracture of the thigh and expired before aid could be rendered. Inspection and inquiry made.
109	13th December, 7 A.M.	Kenwadih mine, Jamadoba P. O., Bihar and Orissa.	Harriladih Coal Co., Ltd.	Gunpat Turi, (m.), 35, <i>Miner.</i>	Coal	Deceased was unlawfully undercutting the corner of a pillar. Whilst so doing a mass of coal and stone, about 1 ton in weight, fell on to him. He was killed instantly. Inspection and inquiry made.
110	28th November, 11 A.M.	Nwalabo mine, Tavoy P. O., Burma.	Tata Sons & Co., Ltd.	Nachhu, (m.), 20, <i>Ore Extracting coolie.</i>	Wolfram	While dressing the side of a cutting about 14 feet high, deceased was killed by a large fall of earth from the side of the cutting.
111	19th December, 10-30 A.M.	Budruchuck mine, Sijua P. O., Bihar and Orissa.	Budruchuck Coal Mining Co., Ltd.	Galoo Bhar, (m.), 28, <i>Propping coolie.</i>	Coal	Deceased was assisting in putting up a prop when a piece of coal and stone which was overhanging from the side of a pillar fell on to his back. He died in hospital nearly three months later.
112	25th December, 11-30 P.M.	Kantapabari mine, Panuria P. O., Bengal.	Burrakur Coal Co., Ltd.	Kamini Mejbhan, (f.), 18, <i>Coal-carrier.</i>	Coal	Deceased was filling coal at the side of a pillar, when a piece of coal, weighing about 2½ cwts., fell on to her from a height of 8 feet, killing her instantly. Inspection and inquiry made.
113	29th December, 4 A.M.	Kenwadih mine, Kusunda P. O., Bihar and Orissa.	East Indian Coal Co., Ltd.	Gour Bauri, (m.), 25, <i>Coal-cutter.</i>	Coal	Deceased passed through a fence and undercut the side of a pillar, 18 feet high. He was killed by the fall of about one ton of coal, from a height of 9 feet. Inspection and inquiry made.

IN SHAFTS—(21 deaths.)

OVERWINDING—(3 deaths.)

114	4th March, 1-30 P.M.	Malkera Choitodih mine, Katragarh P. O., Bihar and Orissa.	Tata Iron and Steel Co., Ltd.	Asraf Meah, (m.), 30, <i>Hookman</i> ; Karim Meah, (m.), 28, <i>Mason.</i>	Coal	The deceased, Asraf Meah, was being lowered in one of the cages in a shaft, 533 feet deep. The deceased, Karim Meah, was being raised in the other cage. The winding engineman lost control of the winding engine and the ascending cage was drawn up to the top of the head-gear. The cage chains broke and the cage dropped to the bottom of the shaft. The other cage struck the landing platform at the bottom with violence. Karim was killed on the spot and Asraf sustained injuries to which he succumbed 36 days later. The winding engine was fitted with an over-winding prevention device, but it failed to act. Inspection and inquiry made. (See Report, page 9.)
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APPENDIX II—contd.

Fatal Accidents, 1918—contd.

Serial No.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral wrought.	Cause of accident and remarks.
IN SHAFTS—contd.						
OVERWINDING—concl'd.						
115	15th December, 3-30 P.M.	Sudamdih mine, Bhojudih P. O., Bihar and Orissa.	Empire Coal Co., Ld.	Bukar Kahar, (m.), 38, <i>Sinker.</i>	Coal	During the temporary absence of the winding engineman, the bankman attempted to lower deceased in the bucket at a sinking shaft, 385 feet deep. He lost control of the engine and the bucket plunged violently into water, 30 feet deep, at the bottom of the shaft. When the body was recovered next morning, death was found to have been due to a fracture of the skull. Inspection and inquiry made.
WHILST ASCENDING OR DESCENDING BY MACHINERY—(6 deaths).						
116	3rd March, 1-30 P.M.	Akhalpur mine, Nandi P. O., Bengal.	Hurriladh Coal Co., Ld.	Niri Baurin, (f.), 35, <i>Coal-carrier.</i>	Coal	Deceased fell out of the cage, when descending a shaft 230 feet deep and was killed instantly. She was alone in the cage. Safety bars were provided, but it is doubtful whether they were put in the safety position by the onsetter. Inspection and inquiry made.
117	17th April, 9-30 P.M.	Choitodih mine, Katrasgarh P. O., Bihar and Orissa.	Tata Iron and Steel Co., Ld.	Jadagir, (m.), 51, <i>Trolleyman.</i>	Coal	Deceased was in a cage which had just commenced to be lowered in a shaft. He leaned out of the cage to pick up his shoes which were lying on the pit bank. His head was caught between the top of the cage and the flat sheets. He sustained a fracture of the cheek bone and died 9 hours later. Inspection and inquiry made.
118	10th May, 1-30 P.M.	Barmondia mine, Sitarampur P. O., Bengal.	Damuda Coal Co., Ld.	Abilass Bauri; (m.), 18, <i>Underground Trammer.</i>	Coal	Deceased stepped off the descending cage before it reached the shaft bottom, and fell a distance of 8 feet on to the plates. He sustained a fracture of the right thigh and died from shock 15 hours later. Inspection and inquiry made.
119	11th November, 2-15 P.M.	Bhelatand mine, Sijua P. O., Bihar and Orissa.	Tata Iron and Steel Co., Ld.	Pattu Singh, (m.), 30; Bahan Singh, (m.), 34, <i>Stone-cutters.</i>	Coal	The two deceased with one other man, having finished their work in a shaft, were waiting for the bucket to be raised, when the upper flange of the steam valve of the winding engine blew off. The engine ran away and the bucket with its occupants was precipitated to the bottom. Six hundred feet of spare rope on the drum of the engine were unwound and fell upon the men killing the two deceased. The other man escaped with a slight scalp wound. Inspection and inquiry made.

120	31st December, 7-30 P.M.	West Gopalichuck mine, Bansjora P. O., Bihar and Orissa.	Gopalichuck Coal Co., Ld.	Gobinda Dosadh, (m.), 35, <i>Onsetter.</i>	Coal	Deceased fell out of the cage whilst being raised in a shaft, 366 feet deep, and was killed instantly. Inspection and inquiry made.
FALLING FROM THE PART OF THE WAY DOWN—(4 deaths).						
121	4th January, 9 A.M.	Lutchipur mine, Sitarampore P. O., Bengal.	Lutchipur Coal Co., Ld.	Alhad Sing, (m.), 28, <i>Stone-cutter.</i>	Coal	One half of a sinking scaffold was being lowered in a shaft, when it caught a projecting ledge of stone. Deceased, who was on the other half of the scaffold, jumped on to the half which was being lowered and succeeded in freeing it, but the resulting jerk caused the rope suspending it to slip on the drum of the winch to which it was attached. Deceased was thrown off and fell to the bottom of the shaft, a distance of about 100 feet. He was killed instantly. Inspection and inquiry made.
122	31st July, 5-30 P.M.	Jibutil mine, Morrison P. O., Madras.	Jibutil (Anantapur) Gold Mines, Ld.	Chenna, (m.), 28, <i>Coolie.</i>	Gold	Deceased was climbing up the ladder in a winze, 100 feet deep, when he fell down a distance of about 40 feet. He sustained a compound fracture of the skull and other serious injuries and died almost immediately. Inspection and inquiry made.
123	28th October, midnight.	Pootki mine, Bansjora P. O., Bihar and Orissa.	Eastern Coal Co., Ld.	Nripath Mondal, (m.), 40, <i>Stone-cutter.</i>	Coal	Deceased was working with other stone-cutters, who were widening a shaft. All were standing on a staging suspended in the shaft. Deceased fell from the staging to the bottom of the shaft, a distance of 100 feet, and was killed instantly. Inspection and inquiry made.
124	28th December, 9 A.M.	Joyramdanga mine, Asansol P. O., Bengal.	New Beerbham Coal Co., Ld.	Jhibu Mahato, (m.), 33, <i>Main gallery driver.</i>	Coal	The covering of a mid-landing in a shaft had been removed, and not replaced, by persons who had been repairing joints in the steam pipes below it. Deceased, unaware of this and unable to set on account of steam at the shaft bottom, walked into the opening and fell a distance of 118 feet to the bottom landing. He was killed instantly. Inspection and inquiry made.
THINGS FALLING FROM THE SURFACE—(3 deaths).						
125	14th May, 12-30 P.M.	Kujama mine, Jharia P. O., Bihar and Orissa.	Kanji and Shamji Nanji	Mutru Kurmi (Mahato), (m.), 25, <i>Stone-cutter.</i>	Coal	Whilst a banksman was changing the coupling chains, preparatory to attaching a water bucket to the rope at the top of a sinking shaft, 210 feet deep, he allowed the chains to fall down the shaft where 9 stone-cutters were at work. The chains fell upon the deceased and killed him. Inspection and inquiry made.
126	4th November, 2 P.M.	Kuardih mine, Kalipahari P. O., Bengal.	Kuardih Coal Co., Ld.	Ibrahim Mohamed (m.), 25, Mustapha Abdul Wahab, (m.), 35, <i>Coal-cutters.</i>	Coal	The two deceased were descending a shaft in the cage, when a plank, measuring 8' 0" x 0' 10" x 0' 2½", fell from the top of the head-gear down the shaft and struck the up-coming cage. The impact caused the cage to oscillate and collide with the other one. Both men were thrown out and fell a distance of 70 feet to the shaft bottom. Ibrahim Mohamed was killed instantly, and Mustapha Wahab died six hours later. Inspection and inquiry made.
THINGS FALLING FROM PART OF THE WAY DOWN—(3 deaths).						
127	27th January, 5-30 A.M.	Parbelia mine, Dishergarh P. O., Bihar and Orissa.	Bengal Coal Co., Ld.	Galup Singh, (m.), 30, <i>Shaft sinker.</i>	Coal	Deceased and others were working at the bottom of a sinking shaft when a piece of stone, measuring 2' 0" x 2' 8" x 0' 4", fell from the side through a distance of 40 feet. Deceased was killed instantly, and one other man received injuries to the head and shoulders. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accident, 1918—contd.

Serial No.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral wrought.	Cause of accident and remarks.
IN SHAFTS—concl'd.						
THINGS FALLING FROM PART OF THE WAY DOWN—concl'd.						
128	16th May, 3 P.M.	Kantapahari mine, Panuria P. O., Bengal.	Burrakar Coal Co., Ld.	Shaik Shariff, (m.), 21, <i>Fitter.</i>	Coal .	Deceased was standing in a sinking bucket in a shaft, at a depth of 116 feet from the surface, while an electric sinking pump was being lowered. One of the clamps on the pump cable came into contact with a temporary scaffold, fixed in the shaft, sixty feet above, and loosened a batten, measuring 4' 0" x 0' 10" x 0' 1½", which fell down the shaft and struck deceased on the head, killing him instantly. Inspection and inquiry made.
129	5th December, 1 A.M.	Parbelia mine, Disheigarh P. O., Bihar and Orissa.	Bengal Coal Co., Ld.	Doulat Dasadh, (m.), 45, <i>Stone-cutter.</i>	Coal .	Deceased was working at the bottom of a sinking shaft, when a small piece of stone fell from the side of the shaft on to his neck. He was killed instantly. Inspection and inquiry made.
MISCELLANEOUS—(2 deaths).						
130	25th March, 1 A.M.	Jibutil mine, Morriston P. O., Madras.	Jibutil (Anantapur) Mines, Ld.	K. Raman, (m.), 22, <i>Underground Contractor.</i>	Gold .	Deceased walked into the ladderway opening at a level. He fell a distance of about 35 feet and fractured his skull. Death was instantaneous. Inspection and inquiry made.
131	6th October, 9 A.M.	Garlitand mine, Sijua P. O., Bihar and Orissa.	New Manbhum Coal Co., Ld.	Bahadur Chsmar, (m.), 25, <i>Tub-pusher.</i>	Coal .	Whilst deceased was pushing a loaded tub out of the cage, at the top of a winding shaft, the rear end of the cage tilted down, as it was not properly seated on the keps. The tub ran back and pinned down deceased on the floor of the cage. His chest was severely crushed and his lungs were ruptured, causing death a few minutes later. Inspection and inquiry made.
EXPLOSIVES—(9 deaths).						
132	11th January, 2 A.M.	Khost mine, Khost P. O., Baluchistan.	North Western Railway.	Gurmakh Singh, (m.), 27, <i>Miners' mate.</i>	Coal .	Deceased was firing a round of seven shots underground. He had lighted four shots and, while lighting the fifth, one of the shots, previously lit, exploded and killed him.
133	11th January, 11 A.M.	Hataria mine, Kodarma P. O., Bihar and Orissa.	Hoare Miller & Co.	Nagendra Nath Ghose, (m.), 30, <i>Fitter mistry.</i>	Mica .	Deceased was examining a petrol pump underground with an open light. An explosion of petrol occurred burning deceased and two others. Deceased died from his injuries 11 days afterwards.
134	16th May, 7 A.M.	Craddock mine, Pench P. O., Central Provinces.	Central Pench Coal Co., Ld.	Daraksah Gond, (m.), 25, <i>Underground Sirdar.</i>	Coal .	Three shot holes in the corner of a pillar had been prepared by the shot-firer. Deceased, who was a sirdar, stopped him from firing them until some props had been withdrawn. While the shot-firer was preparing other shot holes, deceased, without being authorised to do so, fired the shots. He was struck by the blown down pieces of coal and killed.

135	5th May, noon.	Tilana mine, Ajmer P. O., Rajputana.	Rajputana Mica & Minerals Co., Ltd.	Ghisa Lall, (m.), 19, <i>Labourer.</i>	Mica .	Deceased was sitting by some gun-powder which had been spread out to dry. In some way or other, the powder exploded and deceased was burnt so severely that he died 9 days later.
136	12th June, 10-30 A.M.	Jamadoba mine, (No. 1 Division), Jamadoba P. O., Bihar and Orissa.	Tata Iron & Steel Co., Ltd.	Janki Dosai, (m.), 36, <i>Miner.</i>	Coal .	Whilst deceased was drying some gun-powder in the sun, a spark from a fire fell upon the powder and ignited it. He was severely burnt and died four days later. Inspection and inquiry made.
137	30th August, 10 A.M.	Charanpur mine, Charanpur P. O., Bengal.	Reliance Coal Co., Ltd.	Bhairab Pasi, (m.), 30, <i>Coal-cutter.</i>	Coal .	Deceased was drying some gun-powder at, or near, his cooking stove, when it exploded. He was burnt about the face, arms and legs, and died 9 days later. Inspection and inquiry made.
138	9th December, 8 P.M.	Bankaimulla mine, Charanpur P. O., Bengal.	Bengal Coal Co., Ltd.	Manik Manjhi, (m.), 48 ; Budrai Manjhi, (m.), 43, <i>Miners ;</i> Srimati Mejbhan, (f.), 38, <i>Miners' kamin.</i>	Coal .	The deceased were killed by an explosion of gun-powder in a miners' hut; they were probably manufacturing cartridges, for shot firing underground at the time. Inspection and inquiry made. (<i>See Report, page 9.</i>)

**IRRUPTIONS OF WATER or FALLING INTO
WATER—(6 deaths).**

139	21st June, 0-15 A.M.	Kendwadih mine, Kusunda P. O., Bihar and Orissa.	East Indian Coal Co., Ltd.	Gungri Kole, (f.), 22, Panwa Kole, (f.), 20, <i>Coal-carriers ;</i> Sukri Kole, (f.), 2, <i>Not employed.</i>	Coal .	Owing to an embankment on the surface giving way during a very heavy fall of rain, a large volume of water flowed into the mine through surface subsidences. The three deceased were swept away and drowned. Inspection and inquiry made. (<i>See Report, page 9.</i>)
140	18th September, between 7 A.M. & 8 A.M.	Pursoda mine, Rantek P. O., Central Provinces.	Central India Mining Co., Ltd.	Ghoonia, (m.), 21, <i>Fireman.</i>	Manganese	Deceased was found drowned in the mine excavation. He had apparently gone there to wash himself and had slipped into the water in the excavation.
141	3rd November, 1-30 P.M.	Tirody mine, Tirody P. O., Central Provinces.	Rao Sahib D. Laxminarayan.	Satiram, (m.), 22, <i>Coolie.</i>	Manganese	Deceased was drowned in a water-logged portion of the mine, in which, against orders, he was bathing.
142	4th November, 10 A.M.	Sukli mine, Kamptee P. O., Central Provinces.	Central India Mining Co., Ltd.	Mathi Abir, (m.), 40, <i>Miner.</i>	Manganese	Deceased was drowned in a disused portion of the mine.

HAULAGE—(22 deaths).

143	11th January, 9-30 P.M.	Kankani mine, Banejora P. O., Bihar and Orissa.	Eastern Coal Co., Ltd.	Mongal Dhobi, (m.), 35, <i>Underground-hookman.</i>	Coal .	A train of six full tubs and two empty tubs was being raised up an incline when the rope broke and the train ran back. Deceased was caught and crushed against the side of a pillar, receiving injuries from which he died two hours later. Inspection and inquiry made.
144	29th January, 4 A.M.	Malkera-Choitodih mine, Katragarh P. O., Bihar and Orissa.	Tata Iron & Steel Co., Ltd.	Bandan Singh, (m.), 19, <i>Coal-carrier.</i>	Coal .	Deceased, whilst lying asleep on the rails at the foot of a haulage road, was killed by a runaway tub. The runaway was due to the opening out of a D link coupling. The pin of the D link had, probably, not been inserted. Inspection and inquiry made. (<i>See Report, page 10.</i>)
145	7th February, 4-50 P.M.	Ledo (Old West) mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ltd.	Sitaram Teli, (m.), 21, <i>Signaller.</i>	Coal .	Deceased, against orders, was riding out of the mine on a train of 28 loaded tubs, which was being hauled on a level road. He was found dead close to a manhole. Death was due to injuries to the head. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents, 1918—contd.

Serial No.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral wrought.	Cause of accident and remarks.
HAULAGE—concl'd.						
146	1st March, 4 P.M.	Alkusa South mine, Kusunda P. O., Bihar and Orissa.	Raniganj Coal Association, Ld.	Mohar Turi, (m.), 25, Coal-outter.	Coal	Whilst a train of eight empty tubs was being lowered down a haulage slope, the rope broke. Deceased, who was walking down the incline at the time, was run over and sustained injuries, to which he succumbed two days later. The rope was a new one. The engineman had so much slack rope on the drum that the train ran some distance down the slope before the slack was taken up. The resulting jerk snapped the rope. Inspection and inquiry made.
147	12th March, 3 P.M.	Albion mine, Nowagarh P. O., Bihar and Orissa.	Albion Coal Co., Ld.	Jagu Mahato, (m.), 11, Bailing coolie.	Coal	Whilst a train of six tubs was being hauled round a curve out of an underground landing, the single cylinder of the hauling engine got on the dead centre and it was necessary to lower the train a short distance. In the course of lowering, two tubs fell over on the inside of the curve. Deceased, who happened to be passing at the time, was crushed between the tubs and the side of the road. He died ten days later. Inspection and inquiry made.
148	28th March, 7-45 A.M.	Jamadoba mine (No. 1 Division), Jbaria P. O., Bihar and Orissa.	Tata Iron & Steel Co., Ld.	Khudro Dhobi, (m.), 25, Fan engineman.	Coal	Deceased jumped on a train of tubs which was being hauled up an underground incline. He fell off and was crushed between the tubs and the side of the road. He succumbed to his injuries on the following day. Inspection and inquiry made.
149	4th May, 8 P.M.	Bhatdih mine, Mohuda P. O., Bihar and Orissa.	Bengal Bhatdih Coal Co., Ld.	Padma Rajwarin, (f.), 30, Coal-carrier.	Coal	Deceased was pushing an empty tub along a tram road, rising at 1 in 25. Being without a light, she probably became alarmed by the noise of tubs coming in the opposite direction, on a parallel line. She left the tub and ran back, but the tub followed and ran over her. She sustained a compound fracture of the thigh and died six weeks later. Inspection and inquiry made.
150	2nd May, 11-50 P.M.	Madhuband mine, Katragarh P. O., Bihar and Orissa.	Jumuni Coal Co., Ld.	Hemia Meah, (f.), 30, Coal-carrier.	Coal	Whilst a train of tubs was being drawn out of a level on a haulage incline, the haulage rope broke. The train ran back into the level, derailed and collided with an overturned tub in which deceased was sitting. She was killed instantly. The train was not provided with a drag. Inspection and inquiry made.
151	28th May, 1-30 P.M.	Tikak mine, Margherita P. O., Assam.	Assam Railways & Trading Co., Ld.	Sewlall Jaisi, (m.), 22, Timberman.	Coal	Deceased was standing at the bottom of an underground self-acting incline. The men at the bottom of the incline omitted to fasten the empty tub to the rope, with the result that the loaded tub ran wild down the incline, running over deceased at the bottom and killing him.
152	26th July, 8 P.M.	Sudhi mine, Sitarampur P. O., Bengal.	Sudhi Coal Co., Ld.	Babulal Bauri, (m.), 35, Lineman.	Coal	Deceased was riding on the front of a train of tubs. Whilst so doing, he was struck by a bar set to support the roof. He sustained an injury to the spine and died one and-a-half months later. Inspection and inquiry made.

153	26th July, 1-15 A.M.	Ballarpur mine, Ballarpur P. O., Central Provinces.	Sir K. C. Daga & others .	Irayah, (m.), Trammer.	25,	Coal	. As a train of empty tubs was being lowered down a haulage plane, one tub became detached from the train and ran wild. Deceased was lying asleep at the bottom. He appears to have got up but was not able to get away in time. From his injuries he appears to have been squeezed between the empty tub and the side, or fell down heavily in his effort to get away. He died 8 hours later.
154	10th August, 10 A.M.	Joyramdanga mine, Asansol P. O., Bengal.	New Beerbhun Coal Co., Ld.	Paira Roy, (m.), Miner.	26,	Coal	. Whilst deceased was riding on an empty tub which was being drawn up a haulage incline, the tub derailed and he was thrown off. He sustained injuries to the head and died of concussion of the brain. Inspection and inquiry made.
155	16th August, 8 A.M.	Sodepur mine, Sitarampur P. O., Bengal.	Bengal Coal Co., Ld.	Rakhal Bauri, (m.), Trammer.	30,	Coal	. While a loaded tub was passing through a brattice door, it derailed and knocked out a prop, which fell upon deceased, breaking his neck. Inspection and inquiry made.
156	23rd August, 10 P.M.	Titilmuri mine, Sijua P. O., Bihar and Orissa.	Titilmuri Collieries, Ld.	Budhan Sonar, (m.), Hookman.	35,	Coal	. Whilst a train of 8 empty tubs was being lowered down a haulage slope, the rope broke and the tubs ran wild. Deceased was run over and sustained injuries to which he succumbed within a few minutes. Inspection and inquiry made. (See Report, page 11).
157	20th September, 10 A.M.	Jamadoba mine, (No. 3 Division), Jamadoba P. O., Bihar and Orissa.	Tata Iron & Steel Co., Ld.	Agnu Bhuiya alias Gyan, (m.), 40, Trammer.		Coal	. Whilst deceased and another trammer were pushing a loaded tub on a level tram line, they were overtaken by another tub which was being pushed by two other men. Deceased was crushed between the tubs. His spine was fractured and he died on the following day. Inspection and inquiry made.
158	24th September, 1-30 P.M.	Jharia Khas mine, Jharia P. O., Bihar and Orissa.	Standard Coal Co., Ld.	Dokalu Chamar, (m.), Coal-cutter.	35,	Coal	. Whilst a coal-cutter and his wife were pushing an empty tub in by, some other tubs ran wild from a siding and collided with the tub. Deceased who was pushing another tub was knocked down and sustained injuries, to which he succumbed five hours later. Inspection and inquiry made.
159	20th September, 9-30 P.M.	Khost mine, Khost P. O., Baluchistan.	North-Western Railway .	Bagga, (m.), Billman.	26,	Coal	. Deceased was riding down a steep incline on a train of tubs. As the slope changed he raised his head which was crushed between the top of a tub and the roof.
160	4th October, 8 P.M.	Jailgora mine, Jamadoba P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Khiri Baurin, (f.), Coal-carrier.	25,	Coal	. Deceased was lying down on the side close to a curve in an underground tram line. A ride-tipping tub of coal which was being pushed out, overturned and fell on to her. She sustained injuries from which she died 13 days later. Inspection and inquiry made.
161	6th October, 1 A.M.	South Bulliari mine, Kusunda P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Sanjo Majhian, (f.), Coal-carrier.	16,	Coal	. Deceased appears to have been lying asleep just beyond the end of a level tram line in which there was no buffer stop. A miner pushed an empty tub over the end of the line. One of the wheels struck deceased on the head and killed her instantly. Inspection and inquiry made.
162	6th October, 10-30 A.M.	Sarakdih mine, Asansol P. O., Bengal.	Sarakdih Syndicate, Ld.	Kali Charan Bauri, (m.), Pump coolie.	42,	Coal	. A train of fifteen empty tubs was being lowered down an incline, when the coupling of the last tub broke and released the tubs, which ran away down the incline. Deceased was overtaken by the tubs, knocked down and killed instantly. Inspection and inquiry made.
163	12th October, 9 A.M.	Jamgram mine, Kantapahari P. O., Bengal.	Burrakar Coal Co., Ld.	Dhanua Manjhi, (m.), Coal-cutter.	30,	Coal	. Deceased, contrary to orders, went up a "jig" line when the tubs were in motion. His lamp went out and he fell in front of the descending tubs. He was struck on the chest by the front tub and sustained serious internal injuries, from which he died 4½ hours later. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents, 1918—contd.

Serial No.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral wrought.	Cause of accident and remarks.
UNDERGROUND MACHINERY—(2 deaths.)						
164	18th October, 3-30 A.M.	Jealgora mine, Jamadoba P. O., Bihar and Orissa.	East Indian Coal Co., Ld.	Sagar Manjhi, (m.), 22, <i>Coal-cutter.</i>	Coal	Deceased was lying down on the side of an underground tram line, in spite of being warned that tubs of coal were being let down by hand to the top of a "jig." A side-tipping tub overturned close to him and struck him. He sustained a fracture of the spine and ribs, and died almost immediately. Inspection and inquiry made.
165	3rd May, 5-30 P.M.	Benakuri mine, Toposi P. O., Bengal.	Benakuri Coal Co., Ld.	Rojoni Roy, (m.), 18, <i>Engine-driver.</i>	Coal	Deceased, whilst endeavouring to straighten and tighten some loose coils of rope on the drum of a haulage engine, was carried on to the top of the drum, where he was found in a badly mutilated condition. In the absence of eye-witnesses, it was presumed that the throttle lever of the engine was accidentally touched by deceased, or caught by a loose coil of rope and opened wide, causing the engine to race. The loose coils of rope struck a protective roofing fixed over the engine and brought it down upon deceased, who fell against the drum which was running at high speed. He died three hours later. Inspection and inquiry made. (<i>See Report, page 11.</i>)
166	26th November, 10 A.M.	Banksimulla mine, Charanpur P. O., Bengal.	Bengal Coal Co., Ld.	Makunda Moddok, (m.), 42, <i>Pump khalassie.</i>	Coal	Deceased was found entangled in the gearing of an electrically-driven pump. The pump was fenced and it was assumed, therefore, that deceased was caught in the gearing, whilst in the act of oiling the pump when it was in motion. Inspection and inquiry made.
SUNDRIES UNDERGROUND—(14 deaths.)						
167	20th February, 3 P.M.	Kurhurbaree mine, Giridih P. O., Bihar and Orissa.	East Indian Railway Co., Ld.	Bisun Dosadh, (m.), 35, <i>Miner.</i>	Coal	Deceased was blown over by an air blast following the unexpected fall of the main roof of an old goaf. He sustained dislocations of the left elbow and left hip and died 17 days later. Inspection and inquiry made.
168	19th March, 4 P.M.	Kurhurbaree mine, Giridih P. O., Bihar and Orissa.	East Indian Railway Co., Ld.	Raghu Bhuia, (m.), 45, <i>Miner.</i>	Coal	Deceased was sitting on the edge of a "bench" or terrace, formed at the top of a pillar under extraction. He fell suddenly to the ground through a distance of 13 feet and fractured his skull. It is assumed that he was sleeping at the time. Inspection and inquiry made.
169	25th March, 3-30 P.M.	Kutchidhana mine, Ramakona P. O., Central Provinces.	Indian Manganese Co., Ld.	Daulot Kole, (m.), 55, <i>Coolie.</i>	Manganese	Owing to the collision of some tubs deceased got frightened and, in his fright fell off the step on which he was standing on to the next step, 5 feet below. He fell face downwards on some rock and received injuries from which he died three days later.

170	23rd May, 5-30 P.M.	Fularibad mine, Jharia P. O., Bihar and Orissa.	Khas Jharia Coal Co.	Dhanukdhari Mahato, (m.), 55, <i>Signaller.</i>	Coal	A coolie, being ordered to take a pair of tub wheels on an axle down a haulage slope, attempted to do so by rolling them on the tram rails. They slipped from his grasp and ran wild. His warning shouts alarmed deceased who, although he was sitting in a safe place, attempted to run along a level cross gallery. He tripped on a sloping bench of floor coal and fell heavily. He was assisted out of the mine and was not thought to be seriously hurt, but died on the following day. Inspection and inquiry made.
171	30th May, 4-50 P.M.	Chanch mine, Chirkunda P. O., Bihar and Orissa.	Bengal Coal Co., Ltd.	Gobinda Chandra Baxi, (m.) 25, <i>Underground over- man.</i>	Coal	Deceased was standing, superintending the withdrawing of some timbers from a goaf in a seam 9 feet thick. A portion of the "local" roof, measuring 5' 0" x 3' 6" x 1' 0", gave way suddenly and swayed out a prop, which struck him on the right temple. He died two and-a-half hours later of cerebral hæmorrhage. Inspection and inquiry made.
172	21st June, 7 A.M.	Mohpani mine, Mohpani P. O., Central Provinces.	Great Indian Peninsula Railway Co.	Luchoo Lodhan, (f.), 45, <i>Coal-carrier.</i>	Coal	Deceased was carrying some earth in a basket down some steps which had been cut in the split coal between the top and bottom sections of the seam. The steps were worn and slippery and did not make a sharp cut on the edge of the tread. She slipped and received injuries from which she died on the following day. Inspection and inquiry made.
173	22nd June, 8 P.M.	Widnes mine, Tavoy P. O., Burma.	High Speed Steel Alloys Mining Co., Ltd.	Ckaw Ki, (m.), 41, <i>Tributor.</i>	Wolfram	The sides of an "open cut" were being cleaned out. Deceased was standing on the floor of the "open cut" when the floor gave way, breaking through into an old unknown tunnel. This caused part of the side of the "open cut" to fall. Deceased fell into the old tunnel and was buried by the fall of earth.
174	23rd June, 4 P.M.	Pachaung mine, Tavoy P. O., Burma.	Wagon Pachaung Wolfram Mines, Ltd.	Mam Pye, Burman, (m.), 35, <i>Tributor.</i>	Wolfram	Deceased was killed by being struck on the head by a falling stone, detached by a natural fall of earth from the hill side above where he was working in an excavation.
175	7th September, 6-30 A.M.	Sodepur (No. 7) mine, Sitarampur P. O., Bengal.	Bengal Coal Co., Ltd.	Gayaram Bauri, (m.), 45, <i>Underground Sirdar.</i>	Coal	Deceased was found lying dead on an underground tram line. His legs were in contact with the delivery pipe of an electrically-driven pump. Although no marks were found on his body it was presumed that he had been electrocuted. Inspection and inquiry made.
176	23rd September, 12-30 P.M.	Malkera Choitodih mine, Katrasgarh P. O., Bihar and Orissa.	Tata Iron and Steel Co., Ltd.	Nizam Panjabi, (m.), 37, <i>Labourer.</i>	Coal	Deceased was one of a gang of men engaged in cleaning the bottom of a cage pit which had just been dewatered. The shaft bottom was lighted by a temporary arrangement of electric lamps. Electric current was supplied at 220 volts by a lead-covered cable, carried by a galvanized iron rope, suspended from planking on the surface. The insulation of the cable was defective. Deceased touched the cable accidentally, fell across it and remained there for a few minutes until removed. Prolonged artificial respiration was applied but failed to restore animation. Inspection and inquiry made. (<i>See Report, page 11</i>).
177	9th October, 12-30 P.M.	Serampur mine, Giridih P. O., Bihar and Orissa.	East Indian Railway Co., Ltd.	Janki Meah, (m.), 50, <i>Coal-cutter.</i>	Coal	Deceased was stepping on to a ladder at the top of a ledge of coal about 8 feet from the ground, which sloped away from the ledge, and was slippery. He missed his footing and, falling to the ground caught his knee against a heap of loose stones. He died in hospital 39 days later from suffocation and exhaustion. Inquiry made.
178	1st December, 12-10 P.M.	Ghusick mine, Kalipahari P. O., Bengal.	Ghusick and Muslia Collieries, Ltd.	Indi Roy, (m.), 32, <i>Assistant filter;</i> Indi Chona, (m.), 25, <i>Pump-khalassic.</i>	Coal	The two deceased were sitting on the side of a shaft level, underneath a pipe, 3 inches in diameter, which conveyed steam to a pump inbye. When the stop valve on the surface was opened to start the pump, the packing blew out of a flanged joint in the pipe. Both of the men were badly scalded by the escaping steam and died several hours later. Inspection and inquiry made.

APPENDIX II—*contd.*

Fatal Accidents, 1918—*contd.*

Serial No.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral wrought.	Cause of accident and remarks.
SUNDRIES UNDERGROUND—<i>conold.</i>						
179	2nd December, 2-30 P.M.	Durgapur mine, Chanda P. O., Central Provinces.	Chanda Coal Prospecting Syndicate, Ld.	Ramdoe, (m.), 43, <i>Coal-filler.</i>	Coal	Deceased was sitting on a coal tub which was run into by another tub which was being pushed by hand. He received injuries to his leg and died four weeks later.
SURFACE BOILERS OR PIPES BURSTING— (1 death.)						
180	23rd July, 3 A.M.	Northern mine, Nowagarh P. O., Bihar and Orissa.	Northern Coal Co., Ld.	Sujayat Meah, (m.), 18, <i>Pump khalassie.</i>	Coal	Whilst a vertical boiler was under steam, the inner shell bulged in on two opposite sides of the fire grate and four of the rivetted stays pulled through. Steam escaping through these holes, broke down the fire grate. Deceased was found in a sitting position about 10 feet in front of the open door of the fire-box. He was scalded so severely that he died 6 hours later. Inspection and inquiry made.
SURFACE RAILWAYS AND TRAMWAYS BELONG- ING TO THE MINE—(5 deaths).						
181	2nd April, 4 P.M.	Golukdih mine, Jharia P. O., Bihar and Orissa.	N. M. Chowdhury & Co.	Biadar Singh, (m.), 50, <i>Labourer.</i>	Coal	Deceased was run over by a locomotive whilst crossing a bridge. He succumbed to his injuries some 12 hours later. Inspection and inquiry made.
182	19th May, 11-30 A.M.	Jamadoba mine, Jamadoba P. O., Bihar and Orissa.	Tata Iron and Steel Co., Ld.	Durga Julhin, (f.), 45, <i>Labourer.</i>	Coal	Deceased was watching a train of tubs being lowered on a surface self-acting incline. As the train passed, an iron locker in the wheels of one of the tubs struck her. She sustained a lacerated wound above the knees and died from shock two days later. Inspection and inquiry made.
183	26th July, 10 A.M.	Mayo mine, Khehra P. O., Panjab.	Government of India	Mohomed Din, (m.), 30, <i>Fireman.</i>	Salt	Deceased fell off a locomotive engine which was drawing a train of tubs from the mine and was crushed by the wheels of one of the tubs. He died one and-a-half hours later. Inquiry made.
184	27th September, 6 A.M.	Tikak mine, Margherita P. O., Assam.	Assam Railways and Trad- ing Co., Ld.	Sohagi Kole, (f.), 22, <i>Tub-filler.</i>	Coal	Deceased was run over and killed by a train of tubs on a surface incline.
185	9th October, 5-45-P.M.	Kutchidhana mine, Rauakona P. O., Central Provinces.	Indian Manganese Co., Ld.	Jangi, (m.), 40, <i>Transporting coolie.</i>	Manganese	Deceased, while pushing a tub on a surface tramway, was struck by another tub from behind. He died on the following day from concussion of the spine.

MISCELLANEOUS ON SURFACE—(25 deaths).

186	15th January, 6 A.M.	Kujama mine, Jharia P. O., Bihar and Orissa.	Kanji and Shamji Nanji	Sodagar Dom, (m.), 45, <i>Colliery sweeper.</i>	Coal	While passing, at night, over a bridge, 22 feet high, carrying a tram road over river, deceased somehow fell through the fencing of the bridge. He was found early in the morning in the river bed and died shortly afterwards. Inspection and inquiry made.
187	21st January, 9 A.M.	Pagaye mine, Tavoy P. O., Burma.	Rangoon Mining Co., Ltd.	Neels, (m.), 30, <i>Contractor's coolie.</i>	Wolfram	While deceased was cutting down a tree, it fell on to him and killed him instantly.
188	27th January, 3 P.M.	Wagon North mine, Tavoy P. O., Burma.	Finlay Fleming & Co.	Chun See, (m.), 40, <i>Mining coolie.</i>	Wolfram	Deceased was breaking quartz at the head of a dump. He lost his balance and fell 30 feet down the dump, receiving injuries from which he died 5 hours later.
189	26th March, 4-30 P.M.	Khechaung mine, Tavoy P. O., Burma.	Quah Cheng Guan	Maung Aung-Sa, (m.), 28, <i>Labourer.</i>	Wolfram	Deceased was killed by a piece of rock which became detached by natural agencies from a precipitous hill-side on which the workings of the mine are situated.
190	12th April, 7-30 P.M.	Bhowra mine, Jamadoba P. O., Bihar and Orissa.	Eastern Coal Co., Ltd.	Srinath Kahar, (m.), 28, <i>Mine munshi.</i>	Coal	Deceased's clothes were accidentally ignited by the flame of an open oil lamp which he was carrying in his hand. He was severely burned and died three days later. Inspection and inquiry made.
191	17th April, 12-30 P.M.	Sudamdih mine, Bhojudih P. O., Bihar and Orissa.	Sudamdih Coal Co., Ltd.	Ramjan Meah, (m.), 14, <i>Engine cleaner.</i>	Coal	Deceased was drowned in a fenced boiler tank. He was washing some clothes and it is presumed that he overbalanced and fell in. The tank is 50' x 30' x 10' deep, and was completely fenced. Inspection and inquiry made.
192	11th April, 6 P.M.	Durgapur mine, Chanda P. O., Central Provinces.	Chanda Coal Prospecting Syndicate, Ltd.	Rajeshar Kembi, (m.), 45, <i>Surveyor's coolie.</i>	Coal	Deceased was caught by a runaway wheel by which timber was being drawn out of a shaft. The impact threw him into the shaft and killed him.
193	11th May, 5 P.M.	Muralidih mine, Mohuda P. O., Bihar and Orissa.	Bengal Coal Co., Ltd.	Sarup Chamar, (m.), 25, <i>Fitter.</i>	Coal	Deceased was found drowned in a boiler tank. There were no witnesses to the accident, but it is assumed that whilst soaking some boiler lagging composition he fell in and was drowned. The tank, which measured 32' x 18' x 9' was properly fenced. Inspection and inquiry made.
194	14th May, 4 P.M.	Goria mine, Dharhara P. O., Bihar and Orissa.	Ambler Slate & Stone Co., Ltd.	Biranchi Modi, (m.), 30, <i>Driller.</i>	Slate	Deceased was lowering out a block of stone from a hill-side. The block split suddenly, injuring him fatally.
195	3rd June, 4-30 P.M.	Namdang mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ltd.	Khalley Mangar, (m.), 36, <i>Brakeswallah.</i>	Coal	Deceased was sitting on the brick pillar of a brake wheel. He fell down inside and was injured by the wheel. He died four days later.
196	5th June, 10 A.M.	New Tetturia mine, Katrasgarh P. O., Bihar and Orissa.	New Tetturia Coal Co., Ltd.	Suraj Meah, (m.), 36, <i>Fitters' coolie.</i>	Coal	Deceased and five companions were turning the handles of a winch, which was being used to pull a Lancashire boiler along the surface. An unexpected jerk on the rope caused the handles to revolve backwards. Deceased was struck a blow, which resulted in his death in the following day. Inspection and inquiry made.
197	7th June, 12-30 P.M.	Kantapaheri mine, Panuvia P. O., Bengal.	Burrakar Coal Co., Ltd.	Ladho Gope, (m.), 27, <i>Hammerman.</i>	Coal	Deceased, for some unknown reason, climbed up a trestle supporting electric wires through which a current of 550 volts was passing. His right arm came into contact with the bare wire and he was electrocuted. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents, 1918—contd.

Serial No.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral wrought.	Cause of accident and remarks.
MISCELLANEOUS ON SURFACE—concl'd.						
198	1st July, 2 P.M.	Angarpathra mine, Katrasgarh P. O., Bihar and Orissa.	Angarpathra Colliery Co.	Badhava Panjabi, (m.), 42, <i>Contractor for fitting machinery</i> ; Mewa Bhat, (m.), 21, <i>Labourer.</i>	Coal	A contractor with four labourers were employed in placing a Lancashire boiler in position on its seating. The boiler rolled off the lifting jacks and crushed the contractor and one of the labourers. The former was killed instantly and the latter died a few minutes later. Inspection and inquiry made.
199	6th July, 1-30 P.M.	Hermyingyi mine, Tavoy P. O., Burma.	Hermyingyi Mining Co., Ld.	Che Chin, (m.), 35, <i>Sluicing tributor.</i>	Wolfram	Deceased, contrary to orders, placed a stop across a water race. When some upper gates were shut, an abnormal quantity of water passed through his gate, owing to the stop. This caused a stone to fall on him, causing such injuries that he died seven hours afterwards.
200	13th July, — A.M.	Kanbounk mine, Tavoy P. O., Burma.	Kanbounk (Burma) Wolfram Mines, Ld.	Kanta, (m.), 30, <i>Coolie.</i>	Wolfram	Deceased was killed by the fall of earth from the face of an hydraulic working.
201	27th July, 5-30 P. M.	Central Kurkend mine, Kusunda P. O., Bihar and Orissa.	Central Kurkend Coal Co., Ld.	Sukar Rai, (m.), 18, <i>Labourer.</i>	Coal	Deceased was one of a gang engaged in cleaning out a water softening tank, 8 feet deep. The tank is divided into 10 compartments, and whilst five of these were dry, the others contained water at a temperature of from 128° to 136°F. There are doors in each of the four corners of the oblong walling surrounding the tank. At the close of the day's work, deceased, instead of leaving by the nearest door, attempted to do so by the opposite door. In walking along the top of one of the partition walls, he slipped and fell into the tank. He was severely scalded and died four days later. Inspection and inquiry made.
202	27th July, 8-30 A.M.	Hermyingyi mine, Tavoy P. O., Burma.	Hermyingyi Mining Co., Ld.	Lee Tak Hun, (m.), 47, <i>Sluicing tributor.</i>	Wolfram	As deceased was engaged in sluicing during a heavy storm of rain, a heap of stones fell from the side and buried him. He was killed instantly.
203	22nd July, 10 P.M.	Heinda mine, Tavoy P. O., Burma.	Steel Brothers & Co., Ld.	Shu Shan, (m.), 29, <i>Tributor.</i>	Wolfram	Deceased, presumably, was walking on the trunk of a tree, which had fallen across a stream. He slipped and fell to the rocky bed below receiving injuries which resulted in his death.
204	14th August, 1 A.M.	Nwalabo mine, Tavoy P. O., Burma.	Tata Sons & Co., Ld.	Mahabir, (m.), 28, <i>Coolie.</i>	Wolfram	A tree fell on the coolie line, where deceased was sleeping at the time, and killed him.
205	15th August, 9-30 A.M.	Widnes mine, Tavoy P. O., Burma.	High Speed Steel Alloys Mining Co., Ld.	Po Myaing, (m.), 38, <i>Sawyer.</i>	Wolfram	Whilst deceased and two other men were sheltering in a sawpit during a very severe storm, a tree was blown down into the saw pit. Deceased was killed and the other two men were injured.
206	28th August, 4-57 P.M.	Rakha Hills mine, Rakha mines P. O., Bihar and Orissa.	Cape Copper Co., Ld.	Harnam Sing, (m.), 35, <i>Carpenter.</i>	Copper	While deceased was working on the roof of a building, about 24 feet high, he missed his footing and fell, head foremost, on an iron eyebeam, which was lying on the floor. He was killed instantly.

207	19th August, noon.	Widnes mine, Tavoy P. O., Burma.	High Speed Steel Alloy Mining Co., Ltd.	Yea Fut, (m.), 20, <i>Tributor.</i>	Wolfram .	Two trunks of trees which had been felled some months previously, were lying at an angle to each other, the end of one trunk resting on the other. Some coolies were clearing a water course passing under the end of the lower trunk, when the upper trunk slid along the lower trunk and fell on deceased and killed him.
208	5th October, 7-30 A.M.	Hermyingyi mine, Tavoy P. O., Burma.	Hermyingyi Mining Co., Ltd.	Fakyr, (m.), 30, <i>Fuel-cutter.</i>	Wolfram .	Deceased and another fuel-cutter, while endeavouring to work a large log down a hill-side, was crushed by the log. He succumbed to a fractured skull.
209	31st December, 11-30 A.M.	Sodepur (Nos. 9 and 10 Pits) mine, Sitarampur P. O., Bengal.	Bengal Coal Co., Ltd.	Khetto Bagti, (m.), 45, <i>Sawyer.</i>	Coal .	Deceased, whilst sawing wood, overbalanced and fell from a scaffold to the ground, a distance of 5½ feet. He sustained serious internal injuries and died shortly afterwards. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents, 1918—contd.

Serial No.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral wrought.	Reason for exclusion.	Cause of accident and remarks.
DEATHS NOT INCLUDED IN THE STATISTICS.—(53 deaths.)							
1	4th January, 6 A.M.	Burelia mine, Chora P. O., Bengal.	Burelia Coal Co., Ld.	Raghnandan Gope, (m.), 32, Coal-Cutter.	Coal	Not a mining accident.	Whilst deceased was cooking his food his clothes caught fire. He died from his injuries four days later.
2	12th January, 1 A.M.	Tikak mine, Margherita P. O., Assam.	Assam Railways and Trading Co., Ld.	Wazid (Pathan), (m.), 35, Labourer.	Coal	Not a mining accident.	While deceased was hand shunting a railway wagon at night, he was run into and killed by a second wagon which was being hand shunted behind him. Inspection and inquiry made.
3	21st January, midnight.	Loyabad mine, Bansjora P. O., Bihar and Orissa.	Burrakar Coal Co., Ld.	Behari, (m.), 35 ; Sekoo, (m.), 37, Fitters.	Coal	Not a mining accident.	Deceased were asphyxiated by a fire in their dhowra at night.
4	27th January, 9 P.M.	Sibpore mine, Charanpur P. O., Bengal.	Katras Jharria Coal Co., Ld.	Bhim Majhi, (m.), 11.	Coal	Not employed	Deceased's clothes caught fire from a tin lamp which he was carrying. He died from his injuries six days later.
5	28th January, 1 P.M.	Serampur mine, Giridih P. O., Bihar and Orissa.	East Indian Railway Co., Ld.	Chetni Ghatwarin, (f.), 28 ; Bhatni Ghatwarin, (f.), 11.	Coal	Not employed	The two deceased went into an old disused incline to rob coal. A mass of overhanging coal, weighing about two tons, fell from a height of six feet on to them, killing them instantly. Inspection and inquiry made.
6	13th February, 4 P.M.	Baraboni mine, Charanpur P. O., Bengal.	Baraboni Coal Concern, Ld.	Gopinath Pal, (m.), 75.	Coal	Not employed	Deceased was knocked down by a passing tub of coal whilst crossing a surface tram-line. He sustained serious injuries and died 56 hours later. Inspection and enquiry made.
7	16th February, 4 P.M.	Ranigunge mine, Ranigunge P. O., Bengal.	Bengal Coal Co., Ld.	Khenty Baurin, (f.), 22, Loading coolie.	Coal	Not a mining accident.	A loaded wagon was being hand shunted on a siding. Deceased, who was evidently underneath the wagon, pushing the front axle, slipped and fell. One of the front wheels passed over her right leg, fracturing it close to the thigh. She died 5 hours later after the limb had been amputated. Inspection and enquiry made.
8	16th February, 9-30 P.M.	Godhar mine, Kusunda P. O., Bihar and Orissa.	S. B. Raha and Son	Kitia Chamar, (m.), 3½.	Coal	Not employed	Deceased and another child were sleeping by the side of a pillar when a coal-carrier passing close to them stumbled and let fall a piece of coal, weighing about 30 seers. The coal struck deceased on the head, inflicting serious injuries, from which he died an hour later. Inspection and inquiry made.
9	10th March, 6-30 P.M.	Rajhara mine, Rajhara P. O., Bihar and Orissa.	Bengal Coal Co., Ld.	Mondi, (f.), 20.	Coal	Not employed	Deceased apparently threw herself into an air shaft, 85 feet deep. The shaft was properly fenced.

10	28th March, 1 P.M.	Kurkend (East) mine, Kusunda P. O., Bihar and Orissa.	Marine Coal Co., Ld.	Umdi Pasini, (f.), 35.	Coal .	Not employed	Deceased was drowned in a boiler feed-water tank, 10 feet deep. Inspection and inquiry made.
11	17th April, noon.	Loyabad mine, Bansjora P. O., Bihar and Orissa.	Burrakar Coal Co., Ld.	Bhujan Barhi, (m.), 30. Biswa Barhi, (m.), 21. <i>Carpenter's coolies.</i>	Coal .	Not a mining accident.	The two deceased were drowned whilst bathing in an old water-logged quarry. Inspection and inquiry made.
12	16th April. 9-30 A.M.	Cradock mine, Pench P. O., Central Provinces.	Central Pench Coal Co., Ld.	Ramanand, (m.), 40, <i>Office clerk</i> ; Munir Khan, (m.), 25; Sabadulla, (m.), 20, <i>Powder Contractor's employee.</i>	Coal .	Not a mining accident.	The three deceased were killed by an explosion of gun-powder at the general colliery powder factory, owing either to a match or a cigarette being lit by one of them.
13	7th May, not known.	Bhowra mine, Jamaloha P. O., Bihar and Orissa.	Eastern Coal Co., Ld.	Makhna Bhuiya, (m.), 8.	Coal .	Not employed	Deceased was found drowned in a colliery bathing tank. Inspection and inquiry made.
14	10th May, 9 A.M.	Jamuria mine, Nandi P. O., Bengal.	Equitable Coal Co., Ld.	Bisson Bauri, (m.), 8.	Coal .	Not employed	Deceased, a child of weak intellect, was found crushed between the frame and wheel of the "tension bogie" of an endless haulage system. He sustained fractures of the right leg and left arm and other serious injuries, from which he died two hours later. The pulley was unfenced. Inspection and inquiry made.
15	18th April, not known.	Kurluhans mine, Giridi P. O., Bihar and Orissa.	East Indian Railway Co., Ld.	Jitni Ghatwarin, (f.), 50.	Coal .	Not employed	Deceased was found drowned at the bottom of an old shaft. Inspec- tion and inquiry made.
16	17th May, 7-30 A.M.	Goria mine, Dharti P. O., Bihar and Orissa.	Ambler Slate and Stone Co., Ld.	Kanna Kora, (m.), 25, <i>Coolie.</i>	Slate .	Not a mining accident.	When going to his work in the mine deceased slipped down the face of a steep hill. He received injuries from which he died the same day.
17	19th May, 9 A.M.	Kodaiga mine, Saonar P. O., Central Provinces.	Indian Manganese Co., Ld.	Shamrao, (m.), 9.	Manganese	Not employed	Deceased while bathing, placed his body across the bore of a delivery pipe just as the pump had been stopped. Owing to the foot valve leaking the water in the delivery pipe flowed back and owing to the position of deceased's body a partial vacuum was set up in the delivery pipe pressing the body hard against the pipe. This set up such severe internal injuries that he died shortly after being released.
18	16th May, 6-15 P.M.	Tikuri mine, Katni P. O., Central Provinces.	Katni Cement and In- dustrial Co., Ld.	Sundi, (f.), 8.	Bauxite .	Not employed	Deceased was drowned while bathing in water at the bottom of an excavation.
19	30th April, noon.	Bullia mine, Kusunda P. O., Bihar and Orissa.	Bullia Coal Co., Ld.	Bulki Kamarin, (f.), 14; Makhia Kaharin, (f.), 25.	Coal .	Not employed	The two deceased were drowned while bathing in an old quarry. The quarry was fenced. Inspection and inquiry made.

APPENDIX II—contd.

Fatal Accidents, 1918—contd.

Serial No.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral wrought.	Reason for exclusion.	Cause of accident and remarks.
DEATHS NOT INCLUDED IN THE STATISTICS—contd.							
20	6th May, 10 P.M.	Bhutgoria mine, Jharia P. O., Bihar and Orissa.	Aldih Coal Co., Ltd.	Bepat Chamar, (m.), 35, Depot coolie.	Coal	Not a mining accident.	While a wagon was being hand-shunted in a colliery siding, on a dark night, it got out of control. Deceased was told to run ahead and put on the brakes of a stationary wagon. He was overtaken by the runaway wagon, knocked down by the buffers and killed on the spot. Inspection and inquiry made.
21	27th May, 5 A.M.	Bhutgoria mine, Jharia P. O., Bihar and Orissa.	Aldih Coal Co., Ltd.	Peasi, (f), 8.	Coal	Not employed.	Deceased was found drowned in a boiler tank. Inspection and inquiry made.
22	25th May, 0-30 A.M.	Balampore mine, Raniganj P. O., Bengal.	Balampore Coal Co., Ltd.	Sabu Bauri, (m.), 10.	Coal	Not employed	Deceased, with another child, was sleeping on the side of the gallery in which his father was working, when a piece of shale, measuring 2' 0" x 1' 0" x 0' 3", fell from the roof, at a height of 8 feet, and struck him. He died 6½ hours later. Inspection and inquiry made.
23	25th May, 0-30 A.M.	Kantapahari mine, Panuria P. O., Bengal.	Burrakar Coal Co., Ltd.	Sovan Shaik, (m.), 28, Kali Bauri, (m.), 30, Oyadali Shaik, (m.), 21, Fitters; Bihari Bauri, (m.), 33, Babulal Rajowar (m.), 18, Coolies.	Coal	Not a mining accident.	A railway tank, containing 4,000 gallons of kerosene, was being unloaded. The bulk of the oil had been pumped into a storage tank on the side of the line and the balance was being carried in "chatties" and "tins" to a smaller tank in the store-godown. One of the deceased persons appears to have opened a manhole in the top of the railway tank for the purpose of ascertaining the quantity of oil left in it. The oil in the tank, being in a gaseous state was ignited in some way (probably by a lamp) exploded and burst into flame. The four deceased died as a result of burns which they received. Inspection and inquiry made. (See Report page 12).
24	20th May, 4-30 P.M.	Budruchuck mine, Sijua P. O., Bihar and Orissa.	Budruchuck Coal Mining Co., Ltd.	Sukhai Gope, (m.), 25.	Coal	Not employed	Deceased was drowned in an old clay pit. Inspection and inquiry made.
25	5th June, 5 P.M.	Mandra mine, Katrasgarh P. O., Bihar and Orissa.	Bihar Aryan Coal Co.	Dukana Rajwar, (m.), 10, Coolie.	Coal	Not a mining accident.	The straw roof of a hut was blown off during a storm and fell on to deceased who was beside a domestic fire. He was burnt to death. Inspection and inquiry made.
26	21st June, 7-45 A.M.	Bansjora mine, Bansjora P. O., Bihar and Orissa.	Bansjora Coal Co., Ltd.	Kodu Mondal, (m.), 30, Sinking Contractor.	Coal	Not a mining accident.	Deceased was standing on the edge of a platform, partly covering the mouth of a sinking well. He was helping to raise a rope to which were attached a couple of tins of water. Whilst so doing, the rope broke and caused him to overbalance, and fall down the well in which he was drowned. Inspection and inquiry made.

27	29th June, 10 P.M.	Sunkerpore mine, Ukhara P. O., Bengal.	Burn & Co., Ld.	Chandra Pal Singh, (m.), 45, Shotfirer.	Coal .	Not a mining accident.	Deceased was severely burned by a fire which occurred in a row of miners' huts. He died 30 hours later from shock. Inspection and inquiry made.
28	10th July, 9 A.M.	South Kujama mine, Jharia P. O., Bihar and Orissa.	Bagdiggi Kujama Collieries, Ld.	Mohabir Ram, (m.), 5.	Coal .	Not employed	Deceased fell into an unfenced reservoir, measuring 100' x 50' and was drowned. After the accident the reservoir was fenced. Inspection and inquiry made.
29	6th July, 11 P.M.	Begonia Khas mine, Barakar P. O., Bengal.	Maharaja M. C. Nandi.	Surabala Fauri, (f.), 29.	Coal .	Not employed	The body of deceased was found in an old shaft containing water, and it was assumed that she had committed suicide. The shaft was fenced. Inspection and inquiry made.
30	15th July, 5-30 A.M.	Pretoria mine, Charanpur P. O., Bengal.	Sibpur Coal Co., Ld.	Pares Luram Marwari, (m.), 56.	Coal .	Not employed	Deceased committed suicide by jumping down a pit. Inspection and inquiry made.
31	18th July, 11 A.M.	Goneshpur mine, Katrasgarh P. O., Bihar and Orissa.	Economic Coal Co., Ld.	Raghubir Dosadh, (m.), 10.	Coal .	Not employed	Deceased climbed the wall of a boiler feed tank, slipped into the water and was drowned. The tank was walled all round. Inspection and inquiry made.
32	16th July, about 1-30 P.M.	Kutchidhans mine, Ramakona P. O., Central Provinces.	India Manganese Co., Ld.	Chandrahan, (m.), 10.	Manganese	Not employed	Deceased entered the water in an excavation, got beyond his depth and was drowned.
33	24th July, 1-30 P.M.	Kustore (North) mine, Kusunda P. O., Bihar and Orissa.	Raniganj Coal Association, Ld.	Dhansai Gara, (m.), 10.	Coal .	Not employed	The deceased, unnoticed by any one, went through a fence and passed beneath the drum of a hauling engine. There was some slack rope, which, when the engine was started, caught him by the neck and carried him round the drum. His neck was broken. Inspection and inquiry made.
34	31st July, 8-20 A.M.	Bhajipani mine, Pench P. O., Central Provinces.	Pench River Coal Co., Ld.	Bhola Gond, (m.), 30, Miner.	Coal .	Not a mining accident.	While hand shunting operations were in progress on a railway siding, deceased, who was standing between two wagons, was crushed between the buffers of the wagons and was killed instantly.
35	8th August, 6-30 P.M.	Shampore mine, Nirshachatti P. O., Bihar and Orissa.	Shampore Coal Co., Ld.	Mongla Manjhi, (m.), 10.	Coal .	Not employed	Deceased and his companions were playing on some ground adjacent to a waterlogged airshaft. Whilst so doing, one of his playmates threw deceased's stick into the mouth of the shaft, where it lodged on a ledge. Deceased, in attempting to recover it, slipped and fell into the shaft. Inspection and inquiry made.
36	31st August, 9 A.M.	Lower Jharia mine, Jharia P. O., Bihar and Orissa.	G. K. Dossa and Sons	Mothura Hajjam, (m.), 20.	Coal .	Not employed	Deceased attempted to jump on to a train of loaded coal tubs which was being drawn by a locomotive. He fell between the tubs and sustained injuries to which he succumbed on the following night. Inspection and inquiry made.
37	6th September, 6-15 P.M.	Bagdigi mine, Jharia P. O., Bihar and Orissa.	C. J. Smith	Sadhu Muchin, (f.), 55, Miner's Kamin.	Coal .	Not a mining accident.	While deceased was crossing the railway line, at the colliery, she was knocked down by a passenger train sustaining injuries from which she died half an hour later.
38	9th September, 6 A.M.	Tetturia mine, Katrasgarh P. O., Bihar and Orissa.	D. N. Ghose and Bros.	Agnu Bhuiya, (m.), 45, Loading-coolie.	Coal .	Not a mining accident.	Deceased was run over and killed whilst engaged in hand-shunting a wagon in the colliery siding. Inspection and inquiry made.
39	28th September, 9 A.M.	Burelia mine, Chora P. O., Bengal.	Burelia Coal Co., Ld.	Khoka Bawri, (m.), 4.	Coal .	Not employed.	Deceased was playing near some empty wagons and released a brake, causing a wagon to move forward. The child stumbled and one of the wheels passed over him. He died the following day.

APPENDIX II—*contd.*

Fatal Accidents, 1918—*conold.*

Serial No.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age and occupation of person killed.	Name of mineral wrought.	Reason for exclusion.	Cause of accident and remarks.
DEATHS NOT INCLUDED IN THE STATISTICS—<i>conold.</i>							
40	5th November, 1 P.M.	Lodna mine, Jharla P. O., Bihar and Orissa.	Lodna Colliery Co., Ltd.	Radhia Dhanukin, (f.), 40.	Coal . . .	Not employed.	Deceased fell into an abandoned incline containing water and was drowned. Inspection and inquiry made.
41	6th November, not known.	Raniganj mine, Raniganj P. O., Bengal.	Bengal Coal Co., Ltd.	Not known.	Coal . . .	Not employed.	The deceased's body was found at the bottom of a shaft, 57 feet deep. It was presumed that her body had been thrown down the shaft. The fencing around the shaft was in order. Inspection and inquiry made.
42	Not known.	Joyramdanga mine, Asansol P. O., Bengal.	New Beerbhun Coal Co., Ltd.	Lugi Mejhian, (f.), 20, Coal-carrier.	Coal . . .	Not a mining accident.	Deceased was found drowned in a well. Inspection and inquiry made.
43	5th December, 1 P.M.	Rana mine, Charanpur P. O. Bengal.	Economic Coal Co., Ltd.	Gosto Turi, (m.), 11.	Coal . . .	Not employed.	Deceased jumped on to a passing train of colliery trucks, slipped and fell under the wheels. He was killed instantly. Inspection and inquiry made.

APPENDIX II—contd.

Table No. 2.

Statement of fatal and serious accidents in and about mines regulated by the Indian Mines Act, 1901, during the year 1918.

Province.	District and mineral field.	Total average number of persons employed daily.	FATAL ACCIDENTS.				SERIOUS ACCIDENTS.				DEATH-RATE PER 1,000 PERSONS EMPLOYED.				
			Number of separate fatal accidents.	NUMBER OF DEATHS.			Number of serious non-fatal accidents.	NUMBER OF PERSONS SERIOUSLY INJURED.			Below ground.	Above ground.	Below and above ground.		
				Below ground.	Above ground.	Total deaths.		Below ground.	Above ground.	Total number of persons injured.					
A.—COAL.															
Assam	Lakhimpur	2,617	12	11	2	13	78	69	12	81	6.25	8.33	4.97		
	Naga Hills	370	...	...	...	...	...	...	...	...	...	...	...
	Sibsagar	68	...	...	...	...	...	...	...	...	...	...	...
	TOTAL	3,055	12	11	2	13	78	69	12	81	5.62	1.82	4.26		
Baluchistan	Kalat	78	...	...	...	...	...	...	...	...	...	...	...
	Loralai	20	...	...	...	...	...	...	...	...	...	...	...
	Quetta-Pishin	124	...	...	...	...	...	...	...	...	...	...	...
	Sibi-Khost	771	2	2	...	2	1	1	...	1	4.88	...	2.59		
TOTAL	993	2	2	...	2	1	1	...	1	3.57	...	2.01			
Bengal	Bankura, Raniganj	124	...	...	...	...	...	...	...	...	...	...	...
	Birbhum "	129	...	...	...	...	...	...	...	...	...	...	...
	Burdwan "	45,886	53	65	6	71	43	39	8	47	2.24	.31	1.55		
	TOTAL	46,149	53	65	6	71	33	39	8	47	2.23	.35	1.54		
Bihar and Orissa	Hazaribagh {	Bokaro-Ramgarh	7,224	1	1	...	1	11	2	9	11	.2314	
		Giridih	9,357	5	5	...	5	14	9	5	14	.7953	
		Jharia	1,427	1	1	...	1	1.2770	
	Maubhum, Jharia	87,581	80	77	12	89	79	56	24	80	1.43	.36	1.02		
	" Raniganj	9,861	5	5	...	5	6	4	2	6	.85	...	.61
	Palamau, Daltonganj	848	...	...	...	...	2	2	...	2	...	...	...
	Sambalpur, Hingir-Rampur	741	...	...	...	...	...	...	...	...	...	...	...
	Sonthal Parganas, Jainty	1,386	2	3	...	3	3	3	...	3	4.34	...	2.16		
	" Raniganj	223	...	...	...	...	...	...	...	...	...	...	...
TOTAL	118,650	94	92	12	104	115	76	40	116	1.26	.26	.88			
Central Provinces	Chanda, Ballarpur	1,801	3	2	1	3	8	5	3	8	1.98	1.28	1.67		
	Chhindwara, Pench Valley	2,740	3	3	...	3	5	3	2	5	1.50	...	1.09		
	Narsinghpur, Mohpani	1,506	1	1	...	1	1	...	1	1	1.08	...	.66
	Yeotmal	3	...	...	...	...	...	...	...	...	...	...	...
	TOTAL	6,052	7	6	1	7	14	8	6	14	1.52	.47	1.16		
North-West Frontier Province.	Hazara	12	...	...	...	...	...	...	...	...	...	...	...
Panjab	Jhelum	1,161	...	...	...	...	4	3	1	4	...	...	...
	Mianwali	49	...	...	...	...	...	...	...	...	...	...	...
	Shahpur	128	...	...	...	...	...	...	...	...	...	...	...
	TOTAL	1,338	...	...	...	...	4	3	1	4	...	...	...
GRAND TOTAL (COAL)		176,269	168	176	21	197	255	196	67	263	1.60	.31	1.12		

APPENDIX II—contd.

Table No. 2—contd.

Statement of fatal and serious accidents in and about mines regulated by the Indian Mines Act, 1901, during the year 1918—contd.

PROVINCE.	District and mineral field.	Total average number of persons employed daily.	FATAL ACCIDENTS.			SERIOUS ACCIDENTS.			DEATH-RATE PER 1,000 PERSONS EMPLOYED.			
			Number of separate fatal accidents.	NUMBER OF DEATHS.		Number of serious non-fatal accidents.	NUMBER OF PERSONS SERIOUSLY INJURED.		Below ground.	Above ground.	Below and above ground.	
				Below ground.	Above ground.		Total deaths.	Below ground.				Above ground.	Total number of persons injured.
B.—MICA.												
Bihar and Orissa .	Bhagalpur	8	...	...	...	...	...	...	...	...	...	...
	Gaya	2,327	1	1	...	1	1	2	...	2	59	43
	Hazaribagh	15,429	1	1	...	1	3	2	1	3	10	06
	Monghyr	3,432	...	...	...	...	...	...	...	...	...	...
	Sambalpur	146	...	...	...	...	...	...	...	...	...	...
	Manbhum	22	...	...	...	...	...	...	...	...	...	...
	TOTAL	21,364	2	2	...	2	4	4	1	5	14	08
Madras	Nellore	3,550	...	...	...	...	...	...	...	...	...	...
	Salem	213	...	...	...	...	...	...	...	...	...	...
	TOTAL	3,763	...	...	...	...	...	...	...	...	...	...
Rajputana	Ajmer-Merwara	445	1	...	1	1	1	1	...	1	6.49	2.25
	Nasirabad	20	...	...	...	...	...	...	...	...	...	...
	TOTAL	465	1	...	1	1	1	1	...	1	6.25	2.15
	GRAND TOTAL (MICA)	25,592	3	2	1	3	5	5	1	6	12	12
C.—MANGANESE.												
Bombay	Panch Mahale	1,022	1	2	...	2	2	1	1	2	2.56	1.96
Central Provinces .	Balaghat	5,801	2	2	...	2	1	...	1	1	42	34
	Bhandara	553	1	1	...	1	1	1	...	1	2.34	1.81
	Chhindwara	2,114	2	1	1	2	1	...	1	1	56	2.92
	Nagpur	4,036	1	1	...	1	...	...	...	...	34	2.25
	TOTAL	12,504	6	5	1	6	3	1	2	3	51	38
Madras	Visagapatam	317	...	...	...	...	...	...	...	...	...	...
	GRAND TOTAL (MANGANESE)	13,843	7	7	1	8	5	2	3	5	64	34
D.—LIMESTONE.												
Central Provinces .	Jabalpur-Katol	1,886	...	...	...	...	1	1	...	1	...	...
	Bilaspur	104	...	...	...	...	...	...	...	...	...	...
	TOTAL	1,990	...	...	...	...	1	1	...	1	...	...
Punjab	Hoshiarpur	60	...	...	...	...	...	...	...	...	...	...
	GRAND TOTAL (LIMESTONE)	2,050	...	...	...	...	1	1	...	1	...	...

APPENDIX II—contd.

Table No. 2—contd.

Statement of fatal and serious accidents in and about mines regulated by the Indian Mines Act, 1901, during the year 1918—contd.

Province.	District and mineral field.	Total average number of persons employed daily.	FATAL ACCIDENTS.				SERIOUS ACCIDENTS.				DEATH-RATE PER 1,000 PERSONS EMPLOYED.				
			Number of separate fatal accidents.	NUMBER OF DEATHS.			Number of serious non-fatal accidents.	NUMBER OF PERSONS SERIOUSLY INJURED.			Below ground.	Above ground.	Below and above ground.		
				Below ground.	Above ground.	Total deaths.		Below ground.	Above ground.	Total number of persons injured.					
E.—SALT.															
Panjab	Jhelum	811	1	1	1	1	5	3	2	5	...	14.08	1.28		
	Mianwali	88	1	...	...	1	...	...	...	...	11.36	...	11.36
	Shahpur	81	...	...	...	...	...	...	...	...	...	...	...
	GRAND TOTAL (SALT)	980	2	1	1	2	5	3	2	5	1.10	14.08	2.04		
F.—GEMS.															
Burma	Mogok (Rubies, etc.)	1,300	...	...	...	...	3	1	2	3	...	...	...
G.—SLATE.															
Bihar and Orissa	Monghyr	215	1	...	1	1	2	2	1	3	...	34.48	4.65		
Panjab	Gurdaspur	5	...	...	...	...	...	...	...	...	...	...	...
	Gurgaon	195	...	...	...	...	...	...	...	...	...	...	...
	Kangra	275	...	...	...	...	...	...	...	...	...	...	...
	TOTAL	475	...	...	...	...	...	...	...	...	...	...	...
GRAND TOTAL (SLATE)	690	1	...	1	1	2	2	1	3	...	5.21	1.45			
H.—GOLD.															
Bihar and Orissa	Singhbhum	183	...	...	...	...	...	...	...	...	...	...	...
Madras	Anantapur	1,004	2	2	...	2	7	8	1	9	4.10	...	1.99		
GRAND TOTAL (GOLD)	1,187	2	2	...	2	7	8	1	9	3.70	...	1.68			
I.—IRON ORE.															
Bihar and Orissa	Singhbhum	1,087	...	...	...	...	...	...	...	...	...	...	...
Central Provinces	Jabalpur	130	...	...	...	...	...	...	...	...	...	...	...
Rajputana	Ajmer-Merwara	22	...	...	...	...	...	...	...	...	...	...	...
GRAND TOTAL (IRON ORE)	1,239	...	...	...	...	...	...	...	...	...	...	...	...
J.—WOLFRAM.															
Bihar and Orissa	Singhbhum	96	1	1	...	1	...	...	...	...	25.00	...	10.42
Burma	Mergui	402	2	3	...	3	...	...	...	...	35.71	...	7.46
	Tavoy	8,884	21	12	11	28	19	10	10	20	2.46	2.74	2.59		
	Thahton	996	...	...	...	...	...	...	...	...	...	...	...
	TOTAL	10,282	23	15	11	26	19	10	10	20	2.72	2.31	2.58		
GRAND TOTAL (WOLFRAM).	10,378	24	16	11	27	19	10	10	20	2.88	2.28	2.60			

APPENDIX II—contd.

Table No. 2—contd.

Statement of fatal and serious accidents in and about mines regulated by the Indian Mines Act, 1901, during the year 1918—contd.

PROVINCE.	District and mineral field.	Total average number of persons employed daily.	FATAL ACCIDENTS.			SERIOUS ACCIDENTS.			DEATH-RATE PER 1,000 PERSONS EMPLOYED.				
			Number of separate fatal accidents.	NUMBER OF DEATHS.		Number of serious non-fatal accidents.	NUMBER OF PERSONS SERIOUSLY INJURED.		Total number of persons injured.	Below ground.	Above ground.	Below and above ground.	
				Below ground.	Above ground.		Total deaths.	Below ground.					Above ground.
K.—MAGNESITE.													
Madras	Salem	353	...	...	...	...	1	...	1	1	...	...	...
L.—CHROMITE.													
Baluchistan	Quetta Fishin	2	...	...	...	...	...	...	...	...	...	...	...
	Zhob	164	...	...	...	...	1	1	...	1	...	...	...
	TOTAL	166	...	...	...	...	1	1	...	1	...	...	...
Bihar and Orissa	Singhbhum	247	...	...	...	...	...	...	...	...	...	...	...
GRAND TOTAL (CHROMITE)		413	...	...	...	...	1	1	...	1	...	...	...
M.—COPPER ORE.													
Bihar and Orissa	Singhbhum	1,314	1	...	1	1	2	...	3	3	...	89	76
Burma	Lower Chindwin	30	...	...	...	...	...	...	...	...	...	...	...
Central Provinces	Balaghat	12	...	...	...	...	...	...	...	...	...	...	...
GRAND TOTAL (COPPER)		1,356	1	...	1	1	3	...	3	3	...	87	74
N.—BAUXITE.													
Central Provinces	Jabalpur	120	...	...	...	...	...	...	...	...	...	...	...
O.—CLAY.													
Bihar and Orissa	Manbhum	547	...	...	...	...	1	...	1	1	...	...	...
	Palamau	181	...	...	...	...	1	1	...	1	...	...	...
	TOTAL	728	...	...	...	...	2	1	1	2	...	...	...
Central Provinces	Jabalpur	328	...	...	...	...	...	...	...	...	...	...	...
Delhi	Delhi	28	...	...	...	...	...	...	...	...	...	...	...
GRAND TOTAL (CLAY)		1,079	...	...	...	...	2	1	1	2	...	...	...
P.—GALENA.													
Central Provinces	Drug	26	...	...	...	...	...	...	...	...	...	...	...
Q.—TIN.													
Barma	Mergui (Maliwan)	56	...	...	...	...	...	...	...	...	...	...	...
	Tavoy	67	1	2	...	2	...	...	...	...	2500	...	2985
	Thaon	300	...	...	...	...	...	...	...	...	...	...	...
GRAND TOTAL (TIN)		423	1	2	...	2	...	...	...	...	1010	...	473

APPENDIX II—*contd.*Table No. 2—*concl'd.*

Statement of fatal and serious accidents in and about mines regulated by the Indian Mines Act, 1901, during the year 1918—*concl'd.*

PROVINCE.	District and mineral field.	Total average number of persons employed daily.	FATAL ACCIDENTS.				SERIOUS ACCIDENTS.				DEATH-RATE PER 1,000 PERSONS EMPLOYED.		
			Number of separate fatal accidents.	NUMBER OF DEATHS.			Number of serious non-fatal accidents.	NUMBER OF PERSONS SERIOUSLY INJURED.			Below ground.	Above ground.	Below and above ground.
				Below ground.	Above ground.	Total deaths.		Below ground.	Above ground.	Total number of persons injured.			
R.—STEATITE.													
Central Provinces . . .	Jabalpur	178	...	...	...	...	...	...	...	...	...	...
Madras	Kurnool	9	...	...	...	...	...	...	...	...	...	...
GRAND TOTAL (STEATITE).		187	...	...	...	...	...	...	...	...	...	...
S.—OCHRE.													
Bihar and Orissa . . .	Puri	29	...	...	...	...	...	...	...	...	...	...
T.—GRAPHITE.													
Rajputana	Ajmer-Merwara	18	...	...	...	...	...	...	...	...	...	...
U.—APATITE.													
Bihar and Orissa . . .	Singhbhum	150	...	...	...	...	...	...	...	...	...	...
V.—BARYTES.													
Madras	Kurnool	41	...	...	...	...	...	...	...	...	...	...
W.—MOLYBDENITE.													
Burma	Tavoy	15	...	...	...	...	...	...	...	...	...	...
GRAND TOTAL (ALL MINES)		267,738	269	206	87	248	300	260	92	232	1.37	.42	1.02

APPENDIX II—contd.

Table No. 3.

Statement of fatal accidents in mines regulated by the Indian Mines Act, 1901, during the year 1918, classified according to the age and sex of the workers.

MINERAL.	PROVINCE AND MINERAL FIELD.	Number of separate fatal accidents.	NUMBER OF DEATHS.								TOTAL BELOW AND ABOVE GROUND.	
			BELOW GROUND.				ABOVE GROUND.					
			Adult males.	Adult females.	Children (under 13).	TOTAL.	Adult males.	Adult females.	Children (under 13).	TOTAL.		
COAL	Assam, Lakhimpur	12	11	...	...	11	1	1	...	3	13	
	Baluchistan, Sibi, Khost	2	2	...	...	2	...	...	...	...	2	
	Bengal, Raniganj	53	56	9	...	65	5	1	...	6	71	
	Bihar and Orissa.	Bokaro, Ramgarh	1	...	1	...	1	...	...	...	...	1
		Giridih	5	5	...	...	5	...	...	...	...	5
		Jharis, Hazaribagh	1	...	...	1	1	...	...	...	...	1
		Jharis, Manbhum	80	60	15	2	77	11	1	...	12	89
		Manbhum, Raniganj	5	5	...	...	5	...	...	...	...	5
		Sonthal Parganas, Jainty	2	3	...	...	3	...	...	...	...	3
	TOTAL BIHAR AND ORISSA	94	73	16	3	92	11	1	...	12	104	
	Central Provinces	Chanda	3	2	...	...	2	1	...	...	1	3
		Chhindwara	3	3	...	...	3	...	...	...	...	3
		Narsinghpur	1	...	1	...	1	...	...	...	...	1
	TOTAL CENTRAL PROVINCES	7	5	1	...	6	1	...	...	1	7	
	TOTAL COAL	168	147	26	3	176	18	3	...	21	197	

APPENDIX II—contd.

Table No. 3—contd.

Statement of fatal accidents in mines regulated by the Indian Mines Act, 1901, during the year 1918, classified according to the age and sex of the workers—contd.

MINERAL.	PROVINCE AND MINERAL FIELD.	Number of separate fatal accidents.	NUMBER OF DEATHS.								TOTAL BELOW AND ABOVE GROUND.	
			BELOW GROUND.				ABOVE GROUND.					
			Adult males.	Adult females.	Children (under 12).	TOTAL.	Adult males.	Adult females.	Children (under 12).	TOTAL.		
COPPER	Bihar and Orissa, Singhbhum	1	...	...	...	...	1	...	...	...	1
GOLD	Madras, Anantapur	2	2	...	...	2	...	...	...	...	2
MANGANESE	Bombay, Panchmahals	1	2	...	...	2	...	...	...	...	2
	Central Provinces {	Balaghat	2	1	1	...	2	2
		Bhandara	1	1	1	1
		Chhindwara	2	1	1	1	1	2
		Nagpur	1	1	1	1
	TOTAL CENTRAL PROVINCES	6	4	1	...	5	1	...	...	1	6
TOTAL MANGANESE	7	6	1	...	7	1	...	...	1	8	
MICA	Bihar and Orissa {	Gaya	1	1	...	...	1	...	...	...	1
		Hazaribagh	1	1	...	...	1	...	...	...	1
	TOTAL BIHAR AND ORISSA	2	2	...	...	2	...	...	...	...	2
	Rajputana, Ajmer-Merwara	1	...	...	...	...	1	...	...	1	1
TOTAL MICA	3	2	...	...	2	1	...	...	1	3	
SALT	Panjab {	Jhelum	1	...	...	...	1	...	...	1	1
		Mianwali	1	1	...	...	1	...	...	...	1
TOTAL SALT	2	1	...	...	1	1	...	...	1	2	
SLATE	Bihar and Orissa, Monghyr	1	...	...	...	...	1	...	...	1	1
TIN	Burma, Tavoy	1	2	...	...	2	...	...	...	...	2
WOLFGRAM	Bihar and Orissa, Singhbhum	1	1	...	...	1	...	...	...	...	1
	Burma {	Mergui	2	3	...	...	3	...	...	...	3
		Tavoy	21	12	12	11	11	23
	TOTAL BURMA	23	15	...	...	15	11	...	...	11	26
TOTAL WOLFGRAM	24	16	...	...	16	11	...	...	11	27	
GRAND TOTAL (ALL MINERALS)		209	176	27	3	206	34	3	...	37	243	

APPENDIX II—*concl.*

Table No. 4.

Statement of fatal accidents in mines regulated by the Indian Mines Act, 1901, during the year 1918, 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 of fire-damp.	Falls of roof.	Falls of side.	In shafts.	Suffocation by gases.	By explosives.	Eruptions of water or falling into water.	Haulage.	Miscellaneous below ground.	Surface.	Total deaths.	Below ground.	Above ground.	Below and above ground.
Coal	168	12	67	38	19	...	7*	3	22	13	16	197	1·60	·31	1·12
Copper	1	...	...	...	...	...	...	...	...	...	1	1	...	·87	·74
Gold	2	...	...	...	2	...	...	...	...	...	...	2	3·70	...	1·68
Manganese	7	...	...	3	...	...	...	3	...	1	1	8	·64	·34	·58
Mica	3	...	...	1	...	...	2	...	...	...	...	3	·12	·11	·12
Salt	2	...	1	...	...	...	...	...	...	...	1	2	1·10	14·06	2·04
Slate	1	...	...	...	...	...	...	...	...	...	1	1	...	5·21	1·45
Tin	1	...	...	2	...	...	...	...	...	...	...	2	10·10	...	4·73
Wolfram	24	...	2	12	...	...	...	...	...	2	11	27	2·88	2·28	2·60
TOTAL 1918	200	12	70	56	21	...	9*	6	22	16	31	243	1·37	·42	1·02
TOTAL PRECEDING YEAR	175	1	61	50	16	3	9	4	20	15	22	201	1·30	·36	·85
DIFFERENCE	+34	+11	+9	+6	+5	-3	...	+2	+2	+1	+9	+42	+·07	+·06	+·07

* Include three surface accidents.

APPENDIX III.

PROSECUTIONS UNDER THE INDIAN MINES ACT, 1901.

Statement of prosecutions instituted under the Indian Mines Act, 1901, during the year 1918.

Province.	District.	Number of prosecutions.	Number of persons prosecuted.	Number convicted.	Numbers of rules and sections of the Act contravened.	REMARKS.
Bihar and Orissa	Manbhan	1	1	1	Section 20, Rule 1 of Notification No. 5072-113, dated 1st July 1916.	
	Do.	1	1	1	Ditto ditto.	
	Do.	1	1	1	Ditto ditto.	
	Do.	1	1	...	Ditto ditto	... Withdrawn. Accused not traceable.
	Do.	1	1	...	Ditto ditto	... Acquitted.
	Do.	1	1	1	Ditto ditto.	
	Do.	1	1	1	Ditto ditto.	
	Do.	1	1	1	Section 20, Rules 1 and 11 of Notification No. 864-68-20, dated 10th March 1904.	
	Do.	1	1	1	Section 20, Rule 3 of Notification No. 864-68-20, dated 10th March 1904.	
	Do.	1	4	4	Ditto ditto.	
	Do.	1	2	1	Section 20, Rule 7 of Notification No. 864-68-20, dated 10th March 1904.	
	Do.	1	3	3	Section 20, Rule 12 of Notification No. 864-68-20, dated 10th March 1904.	
	Do.	1	1	1	Section 20, Rule 19 of Notification No. 864-68-20, dated 10th March 1904.	
	Do.	1	1	1	Ditto ditto.	
	Do.	1	1	1	Ditto ditto.	
	Do.	1	3	1	Ditto ditto.	
	Do.	1	1	1	Section 21, Rule 4 of Special Rules.	
	Do.	1	1	...	Section 21, Rule 100 of Special Rules	
	Do.	1	1	...	Section 21, Rule 4 of Special Rules.	... Withdrawn. Accused not traceable.
	Do.	1	1	...	Ditto ditto.	

APPENDIX III—*concl.*PROSECUTIONS UNDER THE INDIAN MINES ACT, 1901—*concl.*

Statement of prosecutions instituted under the Indian Mines Act, 1901, during the year 1918—*concl.*

PROVINCES.	District.	Number of prosecutions.	Number of persons prosecuted.	Number convicted.	Numbers of rules and sections of the Act contravened.	REMARKS.
Bengal	Burdwan	1	1	1	Section 20, Rule 7 of Notification No. 864-68-20, dated 10th March 1904.	
	Do.	1	1	1	Section 20, Rule 12 of Notification No. 864-68-20, dated 10th March 1904.	
	Do.	1	2	2	Section 20, Rule 19 of Notification No. 864-68-20, dated 10th March 1904.	
	Do.	1	1	1	Section 20, Rule 20 of Notification No. 864-68-20, dated 10th March 1904.	
	Do.	1	1	1	Section 21, Rules 5, 7, 15 and 21 of the Special Rules.	
	Do.	1	1	...	Section 21, Rule 4 of the Special Rules.	Withdrawn. Accused not traceable.
	Do.	1	1	...	Section 21, Rule 5 of the Special Rules.	
Burma	Tavoy	1	1	1	Section 20, Rule 14 of the Mines Act Rules Burma (1917).	
	Do.	1	1	1	Ditto ditto.	

APPENDIX IV.
MISCELLANEOUS.

Statement No. 1.

List of Inspection Circles.

No. 1 Circle.	No. 2 Circle.
1. 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 Baluchistan. 3. All mines in the North-West Frontier Province. 4. All mines in the Panjab. 5. All mines in Rajputana. 6. All mines in Assam.	1. All mines in Bengal. 2. 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. 3. All mines in Bombay. 4. All mines in the Central Provinces. 5. All mines in Madras. 6. All mines in Burma, other than those in the Tavoy District.
No. 3. Circle. All mines in the district of Tavoy, Lower Burma.	

Statement No. 2.

List of holders of certificates as managers of coal mines in British India.

(a) Certificates granted to holders of English Certificates of competency.

FIRST CLASS.

NAME.	No. of Indian certificate.	Date of Indian certificate.	No. of English certificate.	Date of English certificate.
Habberjam, Charles	211	8th August 1918	170	26th January 1915.

(b) Certificates of competency.

FIRST CLASS.

NAME.	No. of certificate.	Date of certificate.	REMARKS.
Edwards, David Lewis	101	16th April 1918.	
Roy, Moni Bhusan	102	Ditto.	
O'Reilly, Denis Edward	103	Ditto.	
Bhattaoharji, Jnanendra Nath	104	Ditto.	
Lyon, Horace Albert	105	Ditto.	
Judge, Peter	106	Ditto.	
Thomson, Joseph	107	Ditto.	
McGrath, Albert Edward	108	Ditto.	
Bagchi, Beni Madhab Nath	109	Ditto.	
Mitter, Atul Sasi	110	Ditto.	

APPENDIX IV—*contd.*
MISCELLANEOUS—*contd.*

Statement No. 2—*contd.*

List of holders of certificates as managers of coal mines in British India—*contd.*

(b) Certificates of competency—*conold.*

SECOND CLASS.

NAME.	No. of certificate.	Date of certificate.	REMARKS.
Hogg, James Sneddon	144	16th April 1918	} 1st Class candidates recommended for 2nd class certificates.
Ganguli, Bejoy Kumar	145	Ditto	
DeMenezes, Vincent	146	Ditto.	
Fitzgerald, James	147	Ditto.	
Chatterjee, Rakhal Chandra	148	Ditto.	
Bose, Bhupendra Kumar	149	Ditto.	
Bhattacharji, Indu Kiron	150	Ditto.	
Dave, Harishankar Hirji	151	Ditto.	
Mukherji, Santosh Kumar	152	Ditto.	
DeSouza, Frank	153	Ditto.	
Mukherji, Bhupendra Kumar	154	Ditto.	
Paramanik, Jatindra Nath	155	Ditto.	
Ghosh, Balai Charan	156	Ditto.	
Guba, Manickia Chandra	157	Ditto.	
Banerji, Lakshmiapati	158	Ditto.	
Bhattacharji, Bhirendra Nath	159	Ditto.	
Chatterji, Jitendra Nath	160	Ditto.	
Jackson, Clarence Oliver	161	Ditto.	
Chatterji, Debi Das	162	Ditto.	
Rydquist, Frederick William	163	Ditto.	
Deb, Srischandra	164	Ditto.	
Baksi, Kali Krishna	165	Ditto.	
Saranto, Narendra Nath	166	Ditto.	
Bose, Sachindra Nath	167	Ditto.	

APPENDIX IV—*contd.*
MISCELLANEOUS—*contd.*

Statement No. 2—*concl'd.*

List of holders of certificates as managers of coal mines in British India—*concl'd.*

(c) Certificates of service.

FIRST CLASS.

NAME.	No. of certificate.	Date of certificate.	REMARKS.
Porteous, William Bain	142	18th February 1918.	
Ghose, Jasoda Dulal	143	Ditto.	
Bennett, William Henry	144	23rd April 1918.	
Simpson, Stanly Nevil	145	Ditto.	
Mackenzie, John	146	9th August 1918.	
Pearson, Charles	147	Ditto.	
Ross, Ralph	148	Ditto.	
Thompson, George	149	Ditto.	
Banerji, Koolada Prosad	150	22nd August 1918.	

(d) Certificates of service.

SECOND CLASS.

NAME.	No. of certificate.	Date of certificate.	REMARKS.
Mukherji, Ram Chandra	102	19th February 1918.	
Whiffen, Percy Neville	103	Ditto.	
Boswell, Wilfred Moore	194	Ditto.	
Hyde, Joseph	195	16th April 1918.	
Hazra Chowdhury, Kali Krishna	196	Ditto.	
Guha, Jogesh Chandra	197	22nd April 1918.	
Dutta, Sudbamoy	198	Ditto.	

APPENDIX IV—*contd.*MISCELLANEOUS—*contd.*

Statement No. 3.

List of Universities and Colleges approved by the Governor-General in Council for the purposes of Rules 32 and 33 under the Indian Mines Act, 1901.

Name of Institution and Degree or Diploma.	Date.
University of Birmingham in respect of its Degree of B.Sc. in Mining and Diploma in Mining.	11th June 1904.
University College of Bristol in respect of its Senior Diploma in Mining.	16th September 1904.
University of Cambridge in respect of its Diploma in Mining Engineering.	6th June 1905.
University of Durham in respect of its Degree of B.Sc. in Mining.	21st December 1903.
Durham College of Science in respect of its Diploma in Mining.	29th June 1904.
University of Glasgow in respect of its Degree and Diploma in Mining.	28th September 1904.
Glasgow and West of Scotland Technical College in respect of its Diploma in Mining.	28th June 1904.
University of Leeds in respect of its Degree of B.Sc. in Mining and Diploma in Mining.	21st November 1904.
University of London in respect of its B.Sc. Degree in Mining for Internal Students, subject to the Degree being endorsed by the University with a certificate of four months' practical experience in a mine.	9th June 1905.
University of London in respect of its B.Sc. Degree in Mining for External Students, subject to the Degree being endorsed by the University with a certificate of four months' practical experience in a mine.	7th August 1906.
Royal School of Mines in respect of its Associateship in Mining.	24th March 1904.
University of Oxford in respect of its Diploma B. for Colliery Engineers (in Scientific Engineering and Mining subjects).	11th February 1905.
University College of Sheffield in respect of its Diploma in Mining.	15th July 1904.
University College of South Wales and Monmouthshire in respect of its Diploma in Mining.	19th April 1904.
Wigan Mining and Technical College in respect of its Diploma in Mining.	26th August 1904.
Civil Engineering College, Sibpur, in respect of its Diploma in Mining.	22nd February 1907.
Merchant Venturers' Technical College, Bristol, in respect of its Diploma in Mining Engineering.	5th October 1905.
Victoria University of Manchester in respect of its Degree and Certificate of Mining.	14th February 1906.
University College of Nottingham in respect of its Diploma in Mining Engineering.	28th March 1906.
University of Sheffield in respect of its Degree of Bachelor of Engineering (Mining).	30th June 1906.
Heriot-Watt College in respect of its Certificate in Mining Engineering.	16th January 1908.
Calcutta University in respect of its Degree of Bachelor of Engineering in the Branch of Mining Engineering.	24th September 1910.
Harvard University, Cambridge, Massachusetts, in respect of its Diploma in Mining Engineering.	22nd February 1913.
Columbia University, New York, in respect of its Degree of Engineer of Mines.	13th March 1915.
California University, United States of America, in respect of its Degree of Mining Engineer.	19th February 1916.
Pittsburg University, United States of America, in respect of its Degree of Engineer of Mines.	19th February 1916.
Leland Stanford Junior University, California, in respect of its Degree of Bachelor of Arts in Geology and Mining.	10th August 1918.

APPENDIX IV—*contd.*MISCELLANEOUS—*contd.*

Statement No. 4.

SIBPUR COLLEGE.

THE MINING CLASSES.

Admissions to the Diploma Course in Mining at the Civil Engineering College, Sibpur.

The Diploma Course covers two sessions, commencing yearly in April, and lasting till the examinations in the following March. (There is a vacation of about three months in August, September and October.) Six weeks of each session is spent at a camp of mine surveying in the colliery districts.

Two classes of students are admitted—

Regular—who need have no experience of Mining.

Special—who have had about two years' previous experience of coal-mining (under-ground).

Admissions are made as follows :—

Regular students—

A.—Through a special preparatory course of one year's duration at the Civil Engineering College. Admissions at end of January.

B.—Through the Sub-Overseer classes (a two years' course) at Sibpur, Dacca, Burdwan and Pubna, in Bengal; Bankipur and Ranchi in Bihar and Orissa. Admissions to Sub-Overseer class at the Civil Engineering College are made at the beginning of November.

Special students—

C.—Direct from the mines to the Mining classes without passing through either A or B. Admissions at the beginning of April.

Admission qualifications to A, B and C—

The passing of the Matriculation Examination, the Junior Cambridge Examination, the examination held at the end of the supplementary course for elementary European schools, or equivalent.

Scholarships—

For regular students—

Scholarships of the following number and value are available for Regular students admitted under A, these are awarded on the result of the examination held at the end of the preparatory course A :—

Two of Rs. 12 monthly ;

Three „ 6 „

For special students—

Awarded on the result of the examination held at the end of the lectures given in the colliery districts by the Instructor in Mining—

One of Rs. 50 for Europeans.

One or two of Rs. 25 for Indians.

These amounts should be sufficient to maintain a special student resident at the college.

For further particulars apply for the Apprentice Department Circular.

B. HEATON,

Principal, Civil Engineering College, Sibpur.

APPENDIX IV—*contd.*MISCELLANEOUS—*contd.*

Statement No. 5.

MINING INSTRUCTION IN BENGAL AND BIHAR AND ORISSA.

[The Mining Education Advisory Board desire that Colliery Managers will kindly publish this information in their collieries. An appeal is also made to them to support the lectures by seeing that members of their colliery staff, who are suitable, take advantage of the lectures and attend them regularly.]

The full course comprises two parts, the lectures in which are delivered in alternate years as follows:—

The principles of Coal Mining 1919-20, 1921-22, etc.

The principles of Mechanical Engineering of Coal Mines 1918-19, 1920-21, etc.

A fee of Rs. 5 (five rupees) payable to the Mining Instructor on the first registration of his name is charged to each student for each year's series of lectures. This fee is non-returnable.

Programme for Session 1918-19.

LECTURES on the Principles of Mechanical Engineering of Coal Mines will be delivered in English by Mr. H. C. Read, Mining Instructor, as follows:—

JHARIA COAL-FIELD.

Jharia	... Lecture-room near Club	... Mondays	... 5-30 P.M.
Sijua	... Lecture-room near Station	... Tuesdays	... 5-0 "

RANIGANJ COAL-FIELD.

Deshergarh	... Lecture-room near club	... Wednesdays	... 5-30 P.M.
Raniganj	... Railway Institute	... Thursdays	... 5-0 "
Jamuria	... Chief Mining Engineer's office, Sibpur Colliery	... Fridays	... 5-30 "

The course of instruction, consisting of not less than 30 lectures, will commence the first week in September and end in the following April. The examination will be held early in May. Candidates who pass the examination will receive a certificate recording their success. No candidate will, however, be permitted to sit for the examination unless he has attended 50 per cent. of the lectures and received 40 per cent. of the marks allotted for home work.

Rupees 100 monthly is offered in scholarships awarded by the Mining Education Advisory Board on the results of the examination, these will be tenable for two years at the Sibpur College and are granted to enable the holders to attend the full course for the Diploma in the Principles of Mining. One scholarship of Rs. 50 is reserved for Europeans and two of Rs. 25 are awarded to Indians.

The following Sub-Committees have been appointed:—

RANIGANJ COAL-FIELD.

<i>Deshergarh Centre.</i>	<i>Jamuria Centre.</i>	<i>Raniganj Centre.</i>
Mr. H. Lancaster, <i>Chairman.</i>	Mr. H. Lancaster,	Mr. H. Lancaster, <i>Chairman.</i>
„ Glen George (Deshergarh).	„ P. S. Keelan (Charanpur).	„ P. S. Keelan (Charanpur);
„ Geo. Miller (Sitarampur).	„ T. Samson (Charanpur).	„ A. T. Creet (Kalipahari).
„ F. Owen (Deshergarh).	„ R. Mitchell (Nandi).	„ W. J. Rees (Raniganj).
Babu M. N. Roy (Begunia).	„ W. S. Elphinstone (Asansol)	Babu Promotha Nath Hazra (Toposi).
„ P. C. Tarafdar (Mugma).	Babu Atul Shashi Mitra (Asansol).	„ Kali Kumar Mista (Searsole Raj Estate).
„ S. N. Ghosh (Barakar).		„ S. Chaudhuri (Jamehari, Raniganj).

APPENDIX IV—*contd.*MISCELLANEOUS—*contd.*Statement No. 5—*contd.*

JHARIA COAL-FIELD.

<i>Jharia Centre.</i>	<i>Sijua Centre.</i>
Mr. R. R. Simpson, <i>Chairman.</i>	Mr. R. R. Simpson, <i>Chairman.</i>
„ R. G. M. Bathgate (Jamadoba).	„ A. A. Agabeg (Sijua).
„ Kirk (Kustore).	„ R. Heron (Ekra Bansjora).
„ E. D. James (Lodna).	„ Starksfield (Bansjora).
„ R. Barrowman (Standard Coal Company, Jharia).	„ G. C. Leach (Sijua P. O.).
Babu Gobburdhan Das Manishankar (Jharia).	Babu Trikumdas Doyal (Bansjora).
„ Narendra Nath Sarkar (South Kujama, Jharia).	„ Basanta Kumar Roy (Kirkend).

Copies of the syllabus may be obtained from the Mining Instructor, Muslia, Asansol, or from

B. HEATON,

*Secretary, Mining Education Advisory Board,
C. E. College, Sijpur Botanic Garden, P. O. Howrah.*

MINING INSTRUCTION IN THE COAL-FIELDS OF BENGAL AND BIHAR AND ORISSA.

Syllabus of the Course of Instruction.

The lectures in the following courses are delivered in alternate years:—

THE PRINCIPLES OF COAL MINING.

1. *Geology.*—General structure of the earth's crust; igneous and aqueous rocks; definitions of outcrop, dip, strike, fault, roll, wash-out and dyke, etc.; recording geological observations, reading a geological map; description of the Indian coal bearing rocks; composition and properties of coal. Commercial values of coal.

2. *Exploration.*—Prospecting, trial shafts and trenching; advantages of boring; methods of boring; driving through faults, uses of boreholes in mines, etc.

3. *Breaking ground.*—Common tools; storage and use of explosives; electric fuses; machine drills; coal-cutting machines.

4. *Sinking.*—Site of colliery; position of inclines and shafts, their excavation and shape, apparatus used in sinking; lining shafts; arrangements at top of sinking shaft; brief mention of special methods of sinking.

5. *Methods of working.*—Quarrying, advantages of bench work, disposal of soil; shaft pillars; pillar and gallery method, working thick seams in stages, extraction of pillars, panels; brief description of longwall and chambering methods.

6. *Supporting.*—Props and lids, bars, chocks or cogs, square sets, special timbering in loose ground; arching; steel girders; packing; dry and hydraulic stowing.

7. *Mine gases.*—Their experimental preparation by chemicals, and illustration of their physical and physiological properties; their chemical composition; methods of detecting explosions; spontaneous combustion of coal; dangers of coal dust.

8. *Ventilation.*—Ascensional currents, currents induced by the heat of steam or furnace; mine fans; friction of air in mines; theory of splitting the air; calculations of ventilating pressure, etc.; coursing the air; measurement of quantity of air; use of anemometer, water-gauge, thermometer and barometer; reversing the air current.

9. *Safety lamps.*—Principle of the safety-lamp; Sir Humphrey Davy's experiment; types of safety lamps; firedamp detectors.

THE PRINCIPLES OF MECHANICAL ENGINEERING OF COAL MINES.

1. *Applied Mechanics.*—Mensuration; definitions of force, motion, friction, work and energy; the simple machines; mechanical and electrical units; hydrostatics; the siphon pressure of gases; Boyles' law.

APPENDIX IV—*contd.*MISCELLANEOUS—*contd.*Statement No. 5—*concl'd.*

MINING INSTRUCTION IN THE COAL-FIELDS OF BENGAL AND BIHAR AND ORISSA.

*Syllabus of the Course of Instruction—contd.*THE PRINCIPLES OF MECHANICAL ENGINEERING OF COAL MINES—*contd.*

2. *Steam Electricity and Compressed air.*—Theory of steam boilers and their fittings; the steam engine; the dynamo; the electric motor; the air compressor.

3. *Winding.*—Types of winding engines and description of parts; calculation of the dimensions of winding engines; strength of ropes and chains; detaching hooks; overwinding prevention devices; rope cappings; care and examination of ropes, buckets, cages, guide ropes.

4. *Pumping.*—The lift pump; the force pump; sinking pumps; pumps with positive valve motion; the pulsometer; turbine pumps; calculations of the dimensions of pumps; methods of supporting pumps and pipes; strength of pipes; pipe joints; dams to hold back water.

5. *Hauling.*—Tramways; tubs; hand tramping; horse haulage; self-acting inclines; locomotives; single rope haulage; main and tail rope haulage; endless rope or chain haulage; calculations of the dimensions of hauling engines, ropes, etc.; capping of haulage ropes; couplings; haulage clips, etc.; signalling.

6. *Surface arrangements.*—Headframes and pulleys; receiving frames; keys; arrangements of roads on pit bank; tipplers; simple screening and sizing; railway sidings; aerial ropeways.

7. Simple treatment of coking and bye-product ovens.

Adopted by the Mining Education Advisory Board at their meeting of 27th January 1917.

B. HEATON,

Secretary.

CIVIL ENGINEERING COLLEGE, SIBPUR.

Statement No. 6.

No. 784b.

GOVERNMENT OF INDIA.

DEPARTMENT OF COMMERCE AND INDUSTRY.

Simla, the 10th August 1918.

NOTIFICATION.

(Mines Regulations.)

For the purposes of Rules 32 and 33 of the rules framed under Section 20 of the Indian Mines Act, 1901 (VIII of 1901), and published with Notification No. 2968-82, Geology and Minerals, dated the 21st April 1906, as subsequently amended by Notification No. 9709-131, Geology and Minerals, dated the 23rd October 1908, the Governor-General in Council has approved of the Leland Stanford Junior University, California, in respect of its Degree of Bachelor of Arts in Geology and Mining, with effect from the date of this Notification.

A. H. LEY,

Secretary to the Government of India.

APPENDIX IV—*contd.*MISCELLANEOUS—*contd.*

Statement No. 7.

Notification.

No. ^{3770-Com.}11761-M., dated the ^{28th}23rd August 1918, of the Government of ^{Bengal, Commerce}Bihar and Orissa, Municipal Department.

In exercise of the powers conferred by Section 20 of the Indian Mines Act, 1901 (VIII of 1901) the ^{Governor}Lieutenant-Governor in Council is pleased to make the following rules for ^{Bengal}the whole of Bihar and Orissa.

Rule 1.—For the purposes of these rules; the word "mine" shall have the same meaning as given to it by rule 27 of the rules published with the Government of India Notification No. 2958-82, dated the 21st April 1906, as subsequently amended.

Rule 2.—A competent person or persons appointed by the Owner, Agent or Manager for the purpose shall keep a correct record of the number of persons going below ground daily and returning from below ground daily, and if required by the manager, every person shall immediately before going below ground and after returning from below ground record his presence in accordance with a system approved by the Chief Inspector or an Inspector of Mines.

Provided that this rule shall not apply in the case of any person appointed to carry out duties of superintendence, management or control.

Rule 3.—Every side entrance to a mine from the surface, by which the mine can be entered on foot, which is regularly used as a travelling or haulage road, shall be provided with a gate, which shall be kept closed and locked when there are no persons underground in the mine. Such gate shall be so constructed as to prevent effectually, when closed, the entrance of persons into the mine by way of such travelling or haulage road.

Rule 4.—Every side entrance to a mine from the surface by which the mine can be entered on foot, which is not regularly used as a travelling or haulage road, shall be permanently closed or kept substantially fenced, across the whole width of the entrance. When an entrance is fenced, the fencing shall be so constructed as not to prevent egress in case of emergency.

Statement No. 8.

LAND ACQUISITION (MINES) ACT, 1885.

Particulars required to be furnished by colliery owners to Local Governments when giving notice under Section IV of the Land Acquisition (Mines) Act, 1885, of their intention to work coal under land acquired for a railway :—

- (a) The name, residence and profession of the person giving the notice.
- (b) The name of the mine, together with that of the village and district in which the mine is situate.
- (c) The name of the railway line or of the siding and the main line to which the siding is attached, under which the mine is situate.
- (d) The names of the railway stations and the mileage between which the said siding or the said portion of the railway land, under which the mine is situate, falls.
- (e) The number and date of the declaration under which the land was acquired.
- (f) A tracing showing the boundaries of, and the area over which, the acquired land extends.