



STATISTICS OF MINES IN INDIA

VOLUME – II (NON-COAL)



खान सुरक्षा महानिदेशालय

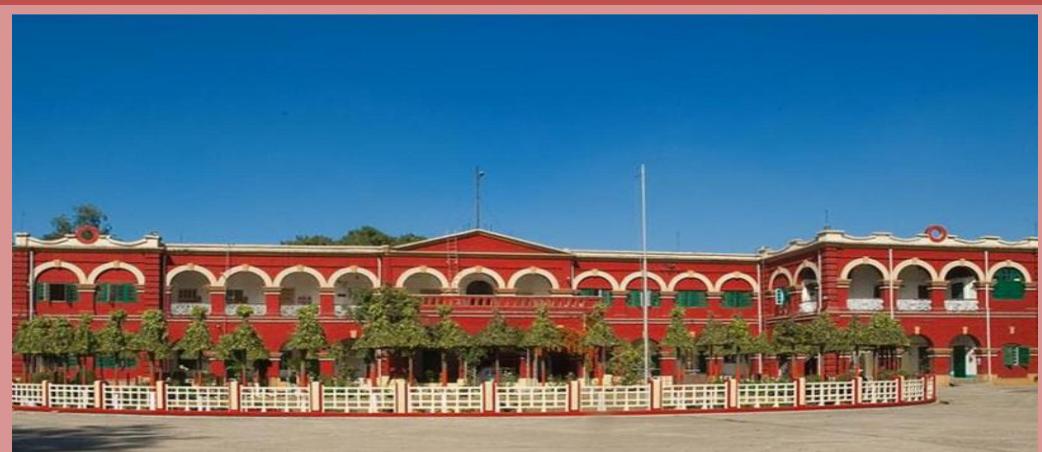
Directorate General of Mines Safety

श्रम एवं रोजगार मंत्रालय

Ministry of Labour & Employment

भारत सरकार

Government of India



STATISTICS OF MINES IN INDIA

VOLUME-II (NON-COAL)

2015

**DIRECTORATE GENERAL OF MINES SAFETY
MINISTRY OF LABOUR &EMPLOYMENT
GOVERNMENT OF INDIA**

PREFACE

Directorate General of Mines Safety (DGMS) receives various statutory returns and notices from coal, metal and oil mines falling under the purview of the Mines Act, 1952. The statistics presented in this publication for the year 2015 are in respect of metalliferous and oil mines only and are based on returns received under the Metalliferous Mines Regulations, 1961 and the Oil Mines Regulations, 1984 framed under the Mines Act, 1952.

This volume contains data on output, value of minerals raised and corresponding employment in mining of different types of minerals, including oil & gas. It also contains information on use of heavy earth moving machineries, consumption of explosives etc. Information in respect of fatal and serious accidents in metalliferous and oil mines is also included in this volume. In addition, it also contains brief description of findings of enquiry conducted by DGMS in respect of each and every fatal accident that occurred in metal and oil mines during the year, 2015. An updated list of 4 or more deaths and a list of Court of Inquiries held for different accidents in metal and oil mines since 1901 are also included in this publication.

Since a large number of metalliferous mines are in the unorganized sector and many of them are seasonal in nature, the number of returns received is less as compared to the number of mines worked during the year. Data published in this volume is based only on the information furnished by reporting mines. We are aware of the shortcomings and are making efforts to increase the coverage of this sector. In spite of its limitations, it is hoped that this volume will be useful to all persons connected directly or indirectly with the metalliferous and oil mining industry.

Any suggestion for improvement of the publication is most welcome.

December, 2017
Dhanbad

(P.K. Sarkar)
Director General of Mines Safety

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INTRODUCTION

Statistics presented in this publication relate to mines coming under the purview of the Mines Act, 1952. Annual returns are submitted in form III under the Metalliferous Mines Regulations 1961 and Oil Mines Regulations, 1984. The Regulations cover all Metalliferous and Oil mines except those exempted from the provisions of the Mines Act 1952 and extend to the whole of Indian Union. The information presented does not cover the employment and output of the atomic minerals.

The data are mainly compiled on the basis of the yearly information submitted by these mines in the form of Annual Return. This is supplemented by the accident notices submitted by the management of the mines and the reports of enquiry conducted by the Directorate General of Mines Safety (DGMS). The Directorate General of Mines Safety (DGMS) investigates into the causes and circumstances leading to each and every fatal accident occurred in these mines.

The statistics of non-coal mines are presented mainly in the following sections:

- Section- I. Employment and output of non-coal mines.
- Section- II. Usage of machineries in non-coal mines.
- Section-III. Consumption of explosives in non-coal mines.
- Section- IV. Accidents and resultant casualties in non-coal mines and summary of findings of statutory enquiries conducted into fatal accidents in non-coal mines occurred during the year, 2015.

SECTION - I

Employment figures presented in the section cover all persons employed in mines as defined in the Mines Act, 1952 whether employed on permanent or temporary basis, direct or through contractors and include clerical and supervisory staff. They, however, exclude the senior supervisory staff like Manager, Agent etc.

The employment figures represented as average daily employment is derived by dividing total manshift worked by the mine in a year by the total number of working days of the mine during the year. These figures and the output presented in the section are compiled from the annual returns submitted and had been added for districts, states and minerals. It may be noted that the output figures presented in the publication refer to the mines coming under the purview of Mines Act, 1952 and returns received at this. These figures, therefore, do not represent the total output of mineral or of any territory whatsoever and are valid only for comparison with other statistics presented herein. For a complete picture of output, references may be made to the publications of Indian Bureau of Mines, Nagpur.

For the year 2015, annual returns have been processed for 2500 returns of non-coal mines.

Taking into account the quality and value of the mineral, granite, as compared to that of stone, it is being compiled separately with effect from the year 1992. The fact may be noted down while making a comparison of data of stone over a period of time.

Statement No. 1.1 indicates the trend in employment, output and value of some selected metalliferous mines.

Statement No. 1.2 gives district-wise, state-wise and mineral-wise details of average daily employment, output and value of mineral for all the metalliferous mines.

Statement No. 1.3 gives statewise details of number of mines, average daily employment, output and value of minerals for metalliferous mines.

Statement No.1.4 gives the details of number of mines, average daily employment and output in oil mines.

SECTION- II

This section deals with usage of machineries in non-coal mines during the year under report and has been presented in statement No. 2.1 to 2.6 while statement No. 2.2 and 2.3 give statistics for electrical machineries installed at above ground and below ground workings respectively. Statement No. 2.4 presents details of heavy earth moving machineries used in non-coal mines. Statement No. 2.5 gives the details of electrical machineries and diesel compressors installed in oil mines. Statement No. 2.6 gives information about the usage of various types of drills and diesel compressors.

SECTION-III

This section gives information regarding trend of consumption of various types of explosives and detonators in metalliferous mines including the year under report and has been presented in statement No. 3.1.

Statement 3.2 gives mineral-wise and state-wise information regarding consumption of various types of explosives and detonators in metalliferous mines during the year under report.

SECTION-IV

Statistics of accidents are compiled from the Notices of accidents submitted to the Directorate-General of Mines Safety as required under the provision of Regulation 9 of Metalliferous Mines Regulations, 1961, Regulation 7 of Oil Mines Regulations 1984 and from the reports of officers who enquired into each and every fatal accidents.

Fatal accidents are those accidents in which at least one death is involved. Serious bodily injury is defined as any injury which involved or in all probability will involve the permanent loss of any part or section of a body or a body or the use of any part or section of a body or the permanent loss of or injury to the sight or hearing or any permanent physical incapacity or the fracture of any bone or one or more joints or bones of any phalanges of hand or foot.

Cases in which neither any life is lost nor any person is seriously injured but could have been happened so, had the persons been present at the spot of accident, are covered under the category “Dangerous Occurrences”.

The introduction of new classification codes for place of accidents and cause of accidents for computerization of accidents data has been adopted with effect from the year 1989. These new classification of codes have been used for cause and place of fatal and serious accidents in all the statements.

However, there are some limitations faced by the system regarding the statistics of production and employment received in the form of the annual returns. The annual return containing data related to non-coal were submitted in hard copy till the year 2015 to respective Regional and Zonal offices of DGMS who in turn forwarded the same to Headquarter, DGMS. There has been a practice over the years that the returns are submitted very late and many mines or companies are not submitting the annual returns. The data is taken as reported in the annual return. Under the circumstances, the information of production and employment are not the estimates but are representing the trends of the same as reported to Directorate General of Mines Safety (DGMS).

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The state Telangana was not formed during 2013.
2. Statements where the word “trend” is not mentioned in the heading relate to the year 2014 only.
3. Statements which do not show mineral-wise figures are marked with an asterisk (*).

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Notes: 1. Figures of Andhra Pradesh available in state-wise tables includes that of the state Telangana also. The state Telangana was not formed during 2013.
 2. Statements where the word “trend” is not mentioned in the heading relate to the year 2014 only.
 3. Statements which do not show mineral-wise figures are marked with an asterisk (*).

SECTION – I

EMPLOYMENT

AND

OUTPUT

Statement 1.1: Trend in employment and output of some major minerals

Mineral	Year	No. of mines submitting returns	Average daily employment				Output (in '000 tonnes)	Value of output (in million Rs.)
			Below ground	Opencast workings	Above ground	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Bauxite	1961	31	--	2,745	301	3,046	476*	5
	1971	58	14	4,128	673	4,815	1,449	18
	1981	48	--	3,586	731	4,317	1,747	81
	1991	80	--	3,968	959	4,927	3,862	599
	2000	100	--	4,391	996	5,387	6,387	1,339
	2001	98	--	3,739	823	4,562	7,020	1,710
	2002	88	--	3,748	793	4,541	8,967	1,563
	2003	91	--	4,215	714	4,929	10,652	1,809
	2004	85	--	5,423	632	6,055	9,298	1,859
	2005	79	--	4,280	641	4,921	9,178	1,893
	2006	73	--	4,416	584	5,000	9,231	2,226
	2007	82	--	4,779	689	5,468	10,848	2,849
	2008	86	--	4,893	752	5,645	16,991	4,415
	2009	89	--	5,733	840	6,573	12,452	4,038
	2010	93	--	5,766	876	6,642	13,324	5,165
	2011	94	--	5,805	954	6,759	13,697	5,626
	2012	115		6,305	1,123	7,428	16,808	7,124
	2013	122	--	5,822	1,080	6,902	19,377	7,753
	2014	108		5,554	1,083	6,637	18,485	8,344
	2015	120	01	6,623	1,142	7,766	18,609	10,604
Copper	1961	4	2,868	9	1,311	4,188	423*	23
	1971	12	5,166	--	2,434	7,600	680	53
	1981	14	8,722	574	4,083	13,379	2,011	345
	1991	13	7,972	938	3,934	12,844	5,048	1,982
	2000	10	4,089	392	2,399	6,880	3,209	1,958
	2001	8	2,613	262	1,124	3,999	3,538	1,943
	2002	8	2,712	252	919	3,343	3,197	1,898
	2003	8	1,153	238	1,133	2,524	2,844	1,792
	2004	5	1,129	264	667	2,060	3,096	1,172
	2005	4	987	310	636	1,933	2,660	1,120
	2006	4	1,042	275	638	1,955	3,104	1,703
	2007	5	1,608	235	621	2,464	3,274	1,974
	2008	5	1,637	237	738	2,612	3,061	2,340
	2009	5	1,892	255	915	3,062	3,091	2,378
	2010	5	1,692	243	964	2,899	3,944	3,480
	2011	5	1,825	250	1,203	3,278	3,655	3,759
	2012	6	2,099	229	1,454	3,782	3,437	3,770
	2013	6	2,084	218	1,434	3,736	3,890	4,722
	2014	6	2,411	218	1,061	3,690	3,348	3,755
	2015	6	1,734	166	632	2,532	3,848	4,115
Galena & Sphalarite	1961	2	N.A.	N.A.	N.A.	N.A.	15*	4
	1971	3	1,123	--	965	2,088	297	7
	1981	6	2,133	88	546	2,767	960	95
	1991	13	3,533	231	2,481	6,245	1,816	543
	2000	12	2,616	--	2,646	5,262	3,319	2,111
	2001	12	2,251	309	2,651	5,211	1,765	1,804
	2002	12	2,017	283	2,196	4,496	3,183	3,564
	2003	12	1,348	602	1,577	3,527	3,534	1,782
	2004	11	1,114	613	2,049	3,776	3,525	2,025
	2005	12	1,040	709	1,481	3,230	4,400	2,219
	2006	11	1,183	342	1,752	3,277	4,232	2,920

Statement 1.1: Trend in employment and output of some major minerals

Mineral	Year	No. of mines submitting returns	Average daily employment				Output (in '000 tonnes)	Value of output (in million Rs.)
			Below ground	Opencast workings	Above ground	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	2007	11	1,148	379	1,773	3,300	5,065	4,030
	2008	11	1,201	460	1,609	3,270	7,022	6,179
	2009	11	1,273	484	1,606	3,363	11,742	9,786
	2010	11	1,298	484	1,702	3,484	11,760	9,748
	2011	12	1,316	708	1,971	3,995	13,499	13,968
	2012	13	1,368	708	1,983	4,059	8,590	9,082
	2013	13	2,348	--	2,142	4,490	7,867	20,471
	2014	13	2,614	890	2,241	5,745	12,750	14,313
	2015	15	3,465	--	1,626	5,091	12,070	18,759
Gold	1961 ^s	4	9,792	--	6,503	16,295	4,868 ^s	59
	1971	4	8,183	--	4,175	12,358	595,043	81
	1981	10	7,641	--	4,644	12,295	503,376	186
	1991	9	5,359	--	3,973	9,332	468,072	730
	2000	9	3,124	102	2,112	5,338	583,186	1,269
	2001	6	1,842	93	1,683	3,618	488,921	1,209
	2002	6	1,727	89	1,526	3,342	622,083	1,489
	2003	4	1,275	60	1,412	2,747	732,636	1,922
	2004	3	1,315	53	1,359	2,727	700,094	2,162
	2005	4	1,544	--	1,569	3,113	623,314	2,350
	2006	4	1,593	--	1,543	3,136	595,760	2,104
	2007	4	1,514	--	1,551	3,065	370,081	1,326
	2008	4	1,456	--	1,604	3,060	647,918	3,607
	2009	4	499	--	1,529	2,028	623,120	3,459
	2010	4	1,536	--	1,500	3,036	681,872	4,606
	2011	5	1,585	--	1,524	3,109	697,000	3,137
	2012	5	1,645	--	1,545	3,190	682,725	3,220
	2013	5	1,699	--	1,703	3,402	695,889	3,152
	2014	6	1,725	78	1,884	3,687	731,364	3,685
	2015	7	1,733	203	1,648	3,588	184,69	3,507
Granite	2000	145	--	4,438	859	5,297	346	1,346
	2001	142	--	4,110	1,901	6,011	395	1,942
	2002	166	28	4,519	1,445	5,992	339	2,543
	2003	154	--	4,846	1,366	6,212	471	3,986
	2004	165	--	5,108	1,645	6,753	619	4,419
	2005	179	--	5,456	1,720	7,176	902	5,177
	2006	177	--	5,488	1,945	7,433	1,092	7,064
	2007	186	--	6,240	1,875	8,115	1,441	11,502
	2008	195	--	6,222	1,967	8,189	1,409	10,517
	2009	200	--	6,560	2,091	8,651	1,366	10,446
	2010	206	--	7,275	2,020	9,295	1,539	12,873
	2011	220	--	8,062	2,336	10,398	1,786	15,474
	2012	241	--	8,881	2,579	11,460	3,949	22,026
	2013	251	--	9,673	2,695	12,368	3,608	19,747
	2014	266	--	10,077	2,722	12,799	4,470	29,499
	2015	300	31	10,841	2,684	13,556	6,398	35,136
Iron Ore	1961	225	--	41,003	13,507	54,540	12,270 ^s	102
	1971	244	45	39,100	13,376	52,821	32,974	373
	1981	205	--	29,390	15,543	44,933	42,779	1,312
	1991	190	--	24,532	15,518	40,050	60,032	6,418
	2000	218	--	20,729	14,564	35,293	84,770	20,481
	2001	207	--	18,529	13,776	32,305	90,476	22,064

Statement 1.1: Trend in employment and output of some major minerals

Mineral	Year	No. of mines submitting returns	Average daily employment				Output (in '000 tonnes)	Value of output (in million Rs.)
			Below ground	Opencast workings	Above ground	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Coal	2002	207	--	20,491	13,166	33,657	99,813	27,841
	2003	221	--	20,137	15,686	35,823	118,813	35,560
	2004	235	--	22,520	16,087	38,607	135,755	51,592
	2005	256	--	22,270	15,207	37,477	155,425	75,524
	2006	244	--	23,680	17,885	41,565	193,495	99,046
	2007	257	--	23,959	1,7822	41781	235,763	141,769
	2008	292	--	25,970	18,958	44,828	230,638	181,739
	2009	309	--	27,729	19,471	47,200	231,021	202,950
	2010	327	12	26,803	20,496	47,311	256,302	221,220
	2011	342	--	28,882	23,775	52,657	252,173	258,055
	2012	362	--	29,998	25,292	55,290	250,106	263,969
	2013	367	--	27,571	25,362	52,933	224,171	229,793
	2014	367	--	26,638	23,874	50,512	224,930	254,359
	2015	372	-	28,425	23,637	52,062	225,067	237,888
Limestone	1961	175	5	47,076	7,585	54,666	14,346*	67
Limestone	1971	261	2	44,295	8,944	53,241	25,260	227
	1981	262	--	41,032	8,738	49,770	32,555	733
	1991	340	--	34,293	9,229	43,522	75,024	3,872
	2000	452	--	22,704	8,424	31,128	148,804	12,046
	2001	422	--	18,294	5,982	24,276	147,345	11,356
	2002	413	--	18,897	6,294	25,191	158,592	12,268
	2003	377	--	18,450	5,815	24,265	1,90,454	15,646
	2004	396	--	18,962	5,816	24,778	2,56,709	20,899
	2005	421	--	20,012	5,816	25,828	2,14,360	20,794
	2006	400	--	19,936	5,685	25,621	2,13,851	21,832
	2007	417	--	21,548	6,157	27,705	2,69,648	27,472
	2008	436	--	21,736	6,366	28,102	2,74,008	34,271
	2009	452	--	21,858	6,715	28,573	2,80,082	42,868
	2010	463	--	22,051	6,222	28,273	3,37,395	50,629
	2011	455	--	22,527	6,094	28,621	3,13,862	47,357
	2012	517	4	23,770	6,357	30,131	3,67,725	74,526
	2013	556	--	25,870	7,837	33,707	4,41,140	65,390
	2014	567	1	25,647	7,824	33,472	4,78,926	86,143
	2015	574	-	2,9025	8,532	37,557	7,56,118	192,632
Manganese Ore	1961	416	1,773	34,345	10,923	47,041	1,230*	76
Manganese Ore	1971	166	1,889	22,095	6,387	30,371	1,609	87
	1981	155	2,348	18,374	5,812	26,534	1,552	218
	1991	133	2,614	10,243	5,009	17,866	1,683	795
	2000	128	2,624	9,201	4,311	16,136	1,986	2,278
	2001	108	2,498	7,119	4,020	13,637	1,936	2,088
	2002	114	2,550	7,451	3,728	13,729	1,914	2,214
	2003	102	2,457	7,389	3,420	13,266	2,411	2,355
	2004	101	3,010	7,639	3,920	14,569	2,835	3,418
	2005	110	2,823	7,818	4,015	14,656	2,770	4,097
	2006	105	2,549	6,866	3,755	13,170	2,853	4,266
	2007	104	2,648	6,758	3,981	13,387	3,503	5,170
	2008	125	2,585	7,040	3,844	13,469	3,618	10,048
	2009	125	2,249	7,461	3,686	13,396	3,662	12,272
	2010	126	2,185	7,373	4,313	13,871	4,049	14,614
	2011	129	2,866	7,918	5026	15,810	6,084	14,897
	2012	132	2,880	8,174	5,405	16,459	6,770	17,873

Statement 1.1: Trend in employment and output of some major minerals

Mineral	Year	No. of mines submitting returns	Average daily employment				Output (in '000 tonnes)	Value of output (in million Rs.)
			Below ground	Opencast workings	Above ground	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Mica	2013	139	2,651	8,572	6,221	17,444	7,338	18,021
	2014	139	2,820	8,414	7,608	18,842	6,591	15,166
	2015	152	5,124	9,765	7,721	22,610	7,297	16,439
	1961	808	17,004	3,616	9,015	29,635	28,347*	24
Mica	1971	345	7,917	369	3,960	12,236	14,356	22
	1981	193	4,620	135	1,980	6,735	7,862	29
	1991	83	1,550	73	550	2,173	3,554	43
	2000	42	667	59	257	983	3,245	59
	2001	32	342	82	185	609	3,202	69
	2002	30	433	30	161	624	2,077	36
	2003	30	401	58	153	612	2,922	32
	2004	31	418	48	165	631	3,290	33
	2005	27	386	62	165	613	4,088	49
	2006	31	323	117	173	613	3,185	40
	2007	28	376	73	168	617	3,896	57
	2008	33	390	99	200	689	4,081	84
	2009	35	350	102	171	623	3,135	89
	2010	29	326	191	174	691	17,666	165
	2011	29	287	199	177	663	24,414	116
	2012	27	233	164	175	572	12,412	100
	2013	31	240	151	187	578	9,714	120
	2014	33	268	147	164	579	3,215	53
	2015	31	278	125	146	549	5,166	63
Stone	1961	113	--	4,208	4,316	8,524	1,679	10
	1971	163	--	5,463	3,318	8,781	3,808	31
	1981	174	--	4,493	3,207	7,700	4,105	81
	1991	228	--	8,273	2,970	11,243	11,635	490
	2000	206	--	4,236	2,171	6,407	15,620	970
	2001	209	--	4,208	2,082	6,290	15,151	1,031
	2002	209	--	4,837	2,964	7,801	14,863	1,066
	2003	189	--	4,936	3,043	7,979	10,454	841
	2004	189	--	5,055	2,886	7,941	12,688	1,029
	2005	197	--	4,931	2,114	7,045	20,282	1,398
	2006	171	--	4,641	1,908	6,549	21,728	1,567
	2007	177	--	6,636	2,193	8,829	23,150	1,664
	2008	182	--	4,998	2,008	7,006	31,211	2,062
	2009	180	--	4,997	2,240	7,237	36,670	2,990
	2010	178	--	4,994	2,186	7,180	37,593	3,273
	2011	167	--	4,934	2,124	7,058	37,270	3,276
	2012	181	--	5,010	2,192	7,202	37,001	3,163
	2013	187	--	5,284	2,207	7,491	41,931	3,477
	2014	191	--	5,278	2,214	7,492	44,209	3,763
	2015	273	50	6,058	2,268	8,376	84,815	6,887
Total	1961	2,323	32,156	164,470	63,095	259,721	--	487
Metalliferous	1971	1,995	26,952	152,809	55,151	234,912	--	1,080
Metalliferous	1981	1,768	29,289	135,450	57,158	221,897	--	3,620
	1991	1,787	23,832	116,743	59,658	200,233	--	19,076
	2000	2,022	14,398	91,443	51,071	156,912	--	53,111
	2001	1,907	10,959	80,672	45,010	136,641	--	54,032
	2002	1,870	10,266	83,183	43,489	136,938	--	64,964
	2003	1,716	7,742	84,261	44,965	136,968	--	77,605

Statement 1.1: Trend in employment and output of some major minerals

Mineral	Year	No. of mines submitting returns	Average daily employment				Output (in '000 tonnes)	Value of output (in million Rs.)
			Below ground	Opencast workings	Above ground	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Coal	2004	1,764	8,061	89,165	46,318	143,544	--	104,283
	2005	1,835	7,911	88,686	44,320	140,917	--	133,418
	2006	1,720	7,814	88,673	46,885	143,372	--	162,160
	2007	1,770	8,539	94,934	48,250	151,723	--	235,351
	2008	1,904	9,088	97,233	49,766	156,087	--	289,354
	2009	1,927	8,251	100,056	51,820	160,127	--	325,454
	2010	1,961	9,031	101,083	52,683	162,797	--	366,829
	2011	1,956	9,783	104,665	58,327	172,775	--	419,109
	2012	2,148	9,590	108,965	61,556	180,111	--	448,843
	2013	2,230	10,372	109,327	65,655	185,354	--	423,740
	2014	2,254	11,181	106,849	65,011	183,041	--	462,475
	2015	2,398	13,548	116,204	64,633	194,385	--	629,814
Oil	1981	8	--	--	14,548	14,548	7,920	2,748
	1991	24	--	--	35,513	35,513	9,508	15,062
							3,543(GS)	3,471
	2000	45	--	--	23,442	23,442	14,244	76,939
							7,821(GS)	16,015
	2001	43	--	--	24,481	24,481	14,564	85,176
							8,203(GS)	21,571
	2002	42	--	--	22,348	22,348	14,562	101,896
							8,024 (GS)	21,430
	2003	49	--	--	18,592	18,592	18,503	111,504
							8,494(GS)	20,393
	2004	47	--	--	19,155	19,155	16,641	148,418
							6,456(GS)	17,665
Non-coal	2005	50	--	--	19,288	19,288	16,947	209,428
							6,557(GS)	21,159
	2006	44	--	--	13,932	13,932	21,125	356,215
							4,548(GS)	14,442
	2007	49	--	--	19,211	19,211	14,307	233,350
							7,612(GS)	23,594
	2008	67	--	--	23,574	23,574	14,703	258,856
							12,788(GS)	35,434
	2009	75	--	--	24,895	24,895	17,534	306,800
							15,454(GS)	44,851
	2010	82	--	--	29,443	29,443	22,817	345,904
							15,449(GS)	58,897
	2011	85	--	--	27,347	27,347	18,949	321,355
							18,266 (GS)	78,042
Non-coal	2012	86	--	--	22,798	22,798	17,678	492,060
							19,394(GS)	103,181
	2013	88	--	--	25,971	25,971	19,319	565,656
							13,925(GS)	88,152
	2014	92			24,815	24,815	22,886	544,443
							13,888(GS)	80,594
	2015	112	--	--	28,471	28,471	20,667	473,290
							13,837(GS)	85,028
Non-coal	1981	1,776	29,289	135,450	71,706	236,445	--	6,368
	1991	1,811	23,832	116,743	95,171	235,746	--	37,609
	2000	2,067	14,398	91,443	74,513	180,354	--	146,065

Statement 1.1: Trend in employment and output of some major minerals

Mineral	Year	No. of mines submitting returns	Average daily employment				Output (in '000 tonnes)	Value of output (in million Rs.)
			Below ground	Opencast workings	Above ground	Total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
2001	1,950	10,959	80,672	69,491	161,122	--	160,779	
2002	1,912	10,266	83,183	65,837	159,286	--	188,291	
2003	1,765	7,742	84,261	63,557	155,560	--	209,503	
2004	1,811	8,061	89,165	65,473	162,699	--	270,367	
2005	1,885	7,911	88,686	63,608	160,205	--	364,005	
2006	1,764	7,814	88,673	60,817	157,304	--	532,817	
2007	1,819	8,539	94,934	67,461	170,934	--	482,295	
2008	1,971	9,088	97,233	73,340	179,661	--	583,644	
2009	2,002	8,251	100,056	76,715	185,022	--	677,105	
2010	2,043	9,031	101,083	82,126	192,240	--	771,629	
2011	2,041	9,783	104,665	85,674	200,112	--	818,504	
2012	2,233	9,590	108,965	84,345	202,909	--	104,4085	
2013	2,318	10,372	109,327	91,626	211,325	--	107,7548	
2014	2,346	11,181	106,849	89,826	207,856	--	108,7512	
2015	2,500	13,548	116,204	93,104	222,856	--	118,8132	

Note: (i) Output is in '000 tonnes except for Gold ore, Mica and Gas for which the units are respectively tonnes and million cubic meters.

(ii) *: As compiled by Indian Bureau of Mines, Nagpur

(iii) (R) : Revised, N.A. : Not available, GS : Gas

(iv) \$: The unit is 'Kg'.

STATEMENT NO. 1.2

AVERAGE DAILY EMPLOYMENT, OUTPUT AND VALUE IN METALLIFEROUS MINES DURING THE YEAR 2015 : STATE-DISTRICT WISE

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES			AVERAGE DAILY EMPLOYMENT						OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.			
		SUBMITTING RETURNS	USING MECH. POWER	BELLOW- GROUND	BELLOW GROUND	OPEN CAST	ABOVE GROUND	TOTAL	MALE	FEMALE	CONTRACT LABOUR				
		3	4	5	6	7	8	9	10	11	B/G	O/C	A/G		
1	2													16	
1. APATITE & ROCK PHOSPHATE															
ANDHRA PRADESH															
Vishakapatnam		1	1	1	27	--	12	39	32	7	--	--	--	3765	7831
MADHYA PRADESH															
Jhabua		1	--	--	--	96	7	103	62	41	--	--	--	Nil	Nil
Sagar		1	1	--	--	48	4	52	50	2	--	--	--	71887	56399
Tikamgarh		1	1	--	--	39	3	42	26	16	--	--	--	11004	21556
TOTAL : MADHYA PRADESH		3	2	--	--	183	14	197	138	59	--	--	--	82891	77955
RAJASTHAN															
Udaipur		4	3	--	--	560	322	882	867	15	--	72	5	113832	150698
														160509 (PR)	128407
														160509 (PR)	128407
UTTARANCHAL															
Dehradun		3	3	2	67	--	229	296	296	--	--	--	--	Nil	Nil
WEST BENGAL															
Purulia		1	--	--	--	2	72	74	72	2	--	--	--	Nil	Nil
TOTAL : APATITE & ROCK PHOSPHATE		12	9	3	94	745	649	1488	1405	83	--	72	5	200488	236484
														160509 (PR)	128407
2. BARYTES															
ANDHRA PRADESH															
Cuddapah		3	2	1	9	388	387	784	639	145	--	70	278	1387	499
														2198211 (LM)	8100722
														12295 (PR)	11642
Nellore		1	1	--	--	5	13	18	10	8	--	--	--	Nil	Nil
TOTAL : ANDHRA PRADESH		4	3	1	9	393	400	802	649	153	--	70	278	1387	499
														2198211 (LM)	8100722
														12295 (PR)	11642
HIMACHAL PRADESH															
Sirmaur		1	1	1	16	--	--	16	16	--	--	--	--	588	882
RAJASTHAN															
Udaipur		1	1	--	--	11	6	17	17	--	--	--	--	5820	2619
TELANGANA															
Khammam		1	1	--	--	29	3	32	32	--	--	--	--	5325	2130
TOTAL : BARYTES		7	6	2	25	433	409	867	714	153	--	70	278	13120	6129
														2198211 (LM)	8100722
														12295 (PR)	11642

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES			A V E R A G E						D A I L Y			E M P L O Y M E N T			OUTPUT*	VALUE IN '000 Rs.
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T	L A B O U R	B/G	O/C	A/G			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
3. BAUXITE																		
CHHATTISGARH																		
Raigarh		1	--	--	--	1	--	1	1	--	--	--	--	16866 (PR)	2234			
Surguja		10	8	--	--	1297	96	1393	1377	16	--	1171	2	1357398	1110822			
Kabirdham		3	1	--	--	572	29	601	601	--	--	162	--	1053489	684016			
														113515 (PR)	13668			
TOTAL : CHHATTISGARH		14	9	--	--	1870	125	1995	1979	16	--	1333	2	2410887	1794837			
														130381 (PR)	15902			
GUJARAT																		
Jamnagar		6	2	--	--	204	14	218	194	24	--	51	9	790242	171880			
														169617 (PR)	52101			
Kutch		15	9	--	--	176	9	185	145	40	--	138	2	317982	299146			
Porbandar		2	--	--	--	12	--	12	12	--	--	--	--	37377	18401			
Wrong Code.		3	--	--	--	50	2	52	52	--	--	--	--	430242	211817			
TOTAL : GUJARAT		26	11	--	--	442	25	467	403	64	--	189	11	1575843	701244			
														169617 (PR)	52101			
JHARKHAND																		
Gumla		19	12	--	--	1325	124	1449	1447	2	--	685	29	1647806	813956			
Lohardaga		8	5	1	1	707	104	812	811	1	--	404	2	944353	401462			
LATEHAR		6	4	--	--	625	113	738	737	1	--	551	6	633566	378223			
TOTAL : JHARKHAND		33	21	1	1	2657	341	2999	2995	4	--	1640	37	3225725	1593640			
KARNATAKA																		
Belgaum		1	1	--	--	21	9	30	30	--	--	--	--	57550 (PR)	25898			
Udipi		1	--	--	--	2	1	3	3	--	--	--	--	Nil	Nil			
TOTAL : KARNATAKA		2	1	--	--	23	10	33	33	--	--	--	--	Nil	Nil			
														57550 (PR)	25898			
MADHYA PRADESH																		
Balaghat		1	--	--	--	2	--	2	2	--	--	--	--	44035	16932			
Chhatarpur		1	--	--	--	27	2	29	19	10	--	--	--	1929	77			
Jabalpur		2	--	--	--	148	12	160	106	54	--	--	--	132678	82825			
Rewa		3	--	--	--	57	--	57	57	--	--	--	--	94305	32893			
Satna		3	--	--	--	39	5	44	38	6	--	--	--	52750	7818			
Shahdol		1	--	--	--	2	2	2	2	--	--	--	--	Nil	Nil			
Katni		2	--	--	--	73	4	77	53	24	--	--	--	14835	632			
Anuppur		2	1	--	--	162	20	182	182	--	--	--	--	165090	79723			
TOTAL : MADHYA PRADESH		15	1	--	--	508	45	553	459	94	--	--	--	505622	220901			
MAHARASHTRA																		
Kolhapur		9	7	--	--	313	43	356	320	36	--	96	19	2305746	433993			
														320028 (PR)	59205			
Ratnagiri		2	2	--	--	52	9	61	61	--	--	--	--	286210	1646471			
Raigad		9	4	--	--	97	7	104	104	--	--	37	--	253525	261722			
														63242 (PR)	12870			
TOTAL : MAHARASHTRA		20	13	--	--	462	59	521	485	36	--	133	19	2845481	2342186			
														383270 (PR)	72075			

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES				A V E R A G E				D A I L Y E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.	
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T L A B O U R					
		B/G	O/C	A/G												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
<hr/>																
ORISSA																
Koraput	2	1	--	--	352	475	827	826	1	--	144	335	6008964	3294028		
Sundergarh	2	1	--	--	23	30	53	39	14	--	20	24	Nil	Nil		
Rayagada	1	1	--	--	46	1	47	47	--	--	--	--	1064314	425855		
TOTAL : ORISSA	5	3	--	--	421	506	927	912	15	--	164	359	7073278	3719883		
<hr/>																
TAMIL NADU																
Salem	2	--	--	--	21	12	33	33	--	--	--	--	211443	55071		
<hr/>																
UTTAR PRADESH																
Jhansi	1	--	--	--	19	1	20	13	7	--	--	--	100	4		
Lalitpur	3	1	--	--	200	18	218	176	42	--	--	--	3564	6464		
													16597 (PR)	4171		
TOTAL : UTTAR PRADESH	4	1	--	--	219	19	238	189	49	--	--	--	3664	6468		
													16597 (PR)	4171		
<hr/>																
TOTAL : BAUXITE	121	60	1	1	6623	1142	7766	7488	278	--	3459	428	17851943	10434229		
													757415 (PR)	170146		
<hr/>																
4. CALCITE																
RAJASTHAN																
Sikar	1	1	--	--	297	98	395	323	72	--	31	--	93695	58317		
Sirohi	1	1	--	--	37	24	61	46	15	--	--	--	95857	78239		
TOTAL : RAJASTHAN	2	2	--	--	334	122	456	369	87	--	31	--	189552	136556		
<hr/>																
TOTAL : CALCITE	2	2	--	--	334	122	456	369	87	--	31	--	189552	136556		
<hr/>																
5. CHINA CLAY,CLAY,WHITE-CLAY																
ANDHRA PRADESH																
Anantpur	1	--	--	--	21	--	21	21	--	--	--	--	17920	717		
Cuddapah	3	--	--	--	101	1	102	70	32	--	--	--	75570	8376		
East Godavari	1	--	--	--	2	2	2	--	--	--	--	--	Nil	Nil		
Krishna														12100	3105	
West Godavari	2	1	--	--	27	2	29	29	--	--	--	--	7707	1966		
													36910 (PR)	34		
TOTAL : ANDHRA PRADESH	7	1	--	--	149	5	154	122	32	--	--	--	113297	14163		
													36910 (PR)	34		
<hr/>																
GUJARAT																
Amreli	2	1	--	--	10	1	11	11	--	--	--	1	3660	582		
Banas Kantha	2	--	--	--	36	--	36	36	--	--	--	--	72121	7212		
Junagadh														127060	38597	
Kutch	16	1	--	--	247	6	253	253	--	--	65	--	184303	24302		
Mehasana	4	2	--	--	4	28	32	30	2	--	--	--	4099	1623		
													7370 (PR)	4159		

STATEMENT NO. 1.2 (CONT.)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES				A V E R A G E		D A I L Y				E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.												
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M I L E	C O N T R A C T	L A B O U R																	
		3	4	5	6	7	8	9	10	11	B/G	O/C	A/G																
1	2																												
	Sabar Kantha	2	2	--	--	1	28	29	29	--	--	--	--	121689	58393														
														5534 (PR)	9131														
	Patan	5	--	--	--	90	--	90	90	--	--	--	--	82320	9435														
TOTAL : GUJARAT		31	6	--	--	388	63	451	449	2	--	65	1	595252	140143														
														12904 (PR)	13290														
<hr/>																													
HARYANA																													
	Gurgaon	2	--	--	--	50	16	66	66	--	--	11	7	86592	4661														
<hr/>																													
JHARKHAND																													
	Sahibganj	3	3	--	--	98	330	428	346	82	--	--	--	75165	7742														
														52776 (PR)	9915														
	West Singhbhum	3	3	--	--	43	77	120	87	33	--	--	--	42122	16063														
														9045 (PR)	3967														
TOTAL : JHARKHAND		6	6	--	--	141	407	548	433	115	--	--	--	117287	23806														
														61821 (PR)	13883														
<hr/>																													
KARNATAKA																													
	Hassan	1	--	--	--	14	27	41	36	5	--	--	--	18110	12644														
	Shimoga	1	--	--	--	2	--	2	2	--	--	--	--	Nil	Nil														
	Tumkur	1	--	--	--	15	2	17	13	4	--	--	--	25860 (PR)	7229														
TOTAL : KARNATAKA		3	--	--	--	31	29	60	51	9	--	--	--	18110	12644														
														25860 (PR)	7229														
<hr/>																													
KERALA																													
	Kannur	5	3	--	--	64	174	238	111	127	--	--	--	32586	22291														
	Trivandrum	3	3	--	--	49	25	74	64	10	--	30	--	395523	46459														
	Kollam	1	1	--	--	1	87	88	88	--	--	1	--	6001	818														
	Kasaragod	1	1	--	--	17	34	51	22	29	--	--	--	5897	804														
TOTAL : KERALA		10	8	--	--	131	320	451	285	166	--	31	--	44007	70372														
<hr/>																													
MADHYA PRADESH																													
	Jabalpur	Employment with Limestone and Iron													1330	490													
<hr/>																													
ORISSA																													
	Mayurbhanj	1	1	--	--	43	16	59	27	32	--	--	--	7341 (PR)	2872														
<hr/>																													
RAJASTHAN																													
	Bhilwara	1	--	--	--	10	5	15	15	--	--	--	--	33285	14932														
	Bikaner	17	5	--	--	222	60	282	275	7	--	1	--	757108	360434														
	Jaipur	2	1	--	--	24	10	34	32	2	--	--	--	53100	17878														
	Nagaur	1	1	--	--	--	1	1	1	--	--	--	--	Nil	Nil														
TOTAL : RAJASTHAN		21	7	--	--	256	76	332	323	9	--	--	1	843493	393244														
<hr/>																													
WEST BENGAL																													
	Birbhum	7	4	--	--	172	152	324	310	14	--	--	--	51972	20532														
														18215 (PR)	1730														
														18215 (PR)	1730														
TOTAL : CHINA CLAY,CLAY,WHITE-		88	33	--	--	1361	1084	2445	2066	379	--	107	9	2267340	680054														
														163051 (PR)	39038														

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES			A V E R A G E			D A I L Y			E M P L O Y M E N T			OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T L A B O U R				
												B/G	O/C	A/G	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
6. CHROMITE															
KARNATAKA															
	Hassan	4	2	1	66	54	127	247	207	40	--	--	--	4704	15053
ORISSA															
	Dhenkanal	2	2	--	--	1	157	158	158	--	--	--	72	Nil	Nil
	Keonjhar	5	4	2	386	108	526	1020	764	256	2	2	11	101967	192765
	Jajpur	18	17	1	154	3944	5439	9537	9237	300	126	1322	2623	1700669	8450330
														246471 (FN)	289742
														115911 (LM)	620516
														825625 (PR)	3638935
TOTAL : ORISSA		25	23	3	540	4053	6122	10715	10159	556	128	1324	2706	1802636	8643095
														246471 (FN)	289742
														115911 (LM)	620516
														825625 (PR)	3638935
TOTAL : CHROMITE		29	25	4	606	4107	6249	10962	10366	596	128	1324	2706	1807340	8658148
														246471 (FN)	289742
														115911 (LM)	620516
														825625 (PR)	3638935
7. COPPER															
JHARKHAND															
	West Singbhum	3	3	3	840	--	243	1083	1082	1	--	--	--	308850	338039
MADHYA PRADESH															
	Balaghat	1	1	--	--	166	105	271	271	--	--	--	--	2510136	1734127
RAJASTHAN															
	Jhunjhunu	2	2	2	894	--	284	1178	1170	8	363	--	8	1028661	2042888
TOTAL : COPPER		6	6	5	1734	166	632	2532	2523	9	363	--	8	3847647	4115054
8. DIAMOND															
MADHYA PRADESH															
	Panna	1	1	--	--	27	75	102	102	--	--	--	--	33488	62005439
TOTAL : DIAMOND		1	1	--	--	27	75	102	102	--	--	--	--	33488	62005439
9. DOLOMITE															
ANDHRA PRADESH															
	Kurnool	5	2	--	--	236	4	240	240	--	--	--	--	1045995	141395
														5900 (FN)	1180
														24388 (LM)	10975
														5900 (FN)	1180
														24388 (LM)	10975

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES				A V E R A G E						D A I L Y E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	OPEN C A S T	A B O V E G R O U N D	TOTAL	M A L E	F A M E L E	C O N T R A C T L A B O U R						
		B/G	O/C	A/G							B/G	O/C	A/G				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
CHHATTISGARH																	
Bilaspur		7	7	--	--	653	520	1173	1071	102	--	119	--	2794503	1026967		
Raigarh		1	--	--	--	8	--	8	8	--	--	--	--	206330	81880		
Janjgir(champa)		6	5	1	37	224	29	290	253	37	--	--	--	902374	314351		
TOTAL : CHHATTISGARH		14	12	1	37	885	549	1471	1332	139	--	119	--	3903207	1423198		
JHARKHAND																	
Garhwa		1	--	--	--	142	33	175	175	--	--	131	4	190570	178925		
KARNATAKA																	
Belgaum		1	--	--	--	1	--	1	1	--	--	--	--	6900	1449		
Bijapur		1	--	--	--	36	9	45	25	20	--	--	--	23506	11325		
Mysore		Employment with Limestone and Granite													28000	21776	
Tumkur		Employment with Limestone and Granite													7700	7952	
Bagalkot		4	2	--	--	43	5	48	48	--	--	--	--	137819	41070		
TOTAL : KARNATAKA		6	2	--	--	80	14	94	74	20	--	--	--	203925	83573		
MADHYA PRADESH																	
Balaghat		2	2	--	--	259	5	264	143	121	--	25	--	4050	1483		
Jabalpur		Employment with Limestone and Granite													6957	6521	
Mandla		1	--	--	--	1	--	1	1	--	--	--	--	Nil	Nil		
Katni		2	--	--	--	92	7	99	33	66	--	--	--	9930	5570		
TOTAL : MADHYA PRADESH		5	2	--	--	352	12	364	177	187	--	25	--	20937	13574		
MAHARASHTRA																	
Chandrapur		1	1	--	--	8	7	15	8	7	--	--	--	20413 (PR)	5818		
Nagpur		2	2	--	--	32	14	46	38	8	--	--	--	2797	935		
Yavatmal		1	1	--	--	17	4	21	21	--	--	--	--	106159	27787		
TOTAL : MAHARASHTRA		4	4	--	--	57	25	82	67	15	--	--	--	108956	28722		
														20413 (PR)	5818		
ORISSA																	
Sundergarh		3	3	--	--	143	328	471	458	13	--	66	121	113323	43913		
														222793 (PR)	156503		
														222793 (PR)	156503		
RAJASTHAN																	
Rajsamand		Employment with Limestone Granite and Steatite													304700	800184	
TELANGANA																	
Khammam		1	1	--	--	54	91	145	141	4	--	--	--	416644 (PR)	837100		
WEST BENGAL																	
Jalpaiguri		1	--	--	--	--	31	31	31	--	--	--	--	Nil	Nil		
TOTAL : DOLOMITE		41	27	1	37	1982	1091	3110	2732	378	--	342	125	5891613	2713484		
														5900 (FN)	1180		
														24388 (LM)	10975		

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES			A V E R A G E			D A I L Y E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.		
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T L A B O U R				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
														659850 (PR)	999421

10. FELSPAR

ANDHRA PRADESH															
Nellore		5	2	1	24	101	15	140	118	22	--	--	--	696906 38312 (PR) 38312 (PR)	100930 66707 66707
KARNATAKA															
Mandyā		1	--	--	--	2	--	2	2	--	--	--	--	Nil	Nil
Mysore		2	--	--	--	10	9	19	2	17	--	--	--	265	56
TOTAL : KARNATAKA		3	--	--	--	12	9	21	4	17	--	--	--	265	56
TELANGANA															
Mahboob Nagar		2	--	--	--	41	3	44	44	--	--	--	--	25320	6380
WEST BENGAL															
Birbhum		1	--	--	--	15	2	17	17	--	--	14	--	668 2708 (LM)	207 1312
Purulia														25966	9088
TOTAL : WEST BENGAL		1	--	--	--	15	2	17	17	--	--	14	--	26634 2708 (LM)	9295 1312
TOTAL : FELSPAR		11	2	1	24	169	29	222	183	39	--	14	--	749125 2708 (LM) 38312 (PR)	116662 1312 66707

11. FIRE-CLAY

ANDHRA PRADESH															
East Godavari		1	--	--	--	20	--	20	20	--	--	--	--	9000	960
GUJARAT															
Kutch		2	--	--	--	36	--	36	36	--	--	18	--	7550	755
MADHYA PRADESH															
Jabalpur		2	--	--	--	35	4	39	23	16	--	--	--	32518	1743
Katni		1	--	--	--	23	--	23	23	--	--	--	--	2800	286
TOTAL : MADHYA PRADESH		3	--	--	--	58	4	62	46	16	--	--	--	35318	2029
ORISSA															
Angul		1	--	--	--	28	1	29	29	--	--	--	--	880	531
Cuttack		4	--	--	--	67	15	82	82	--	--	--	--	16698	4208
Sundergarh		1	--	--	--	20	--	20	20	--	--	--	--	6360	1049
Bargarh		1	--	--	--	19	--	19	19	--	--	--	--	981	234
TOTAL : ORISSA		7	--	--	--	134	16	150	150	--	--	--	--	24919	6023
RAJASTHAN															
Bikaner		6	--	--	--	122	4	126	114	12	--	--	--	184977	17763
TAMIL NADU															

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES			A V E R A G E			D A I L Y			E M P L O Y M E N T			OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T L A B O U R	B/G	O/C	A/G	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Tiruchirapalli	1	--	--	--	2	11	13	2	11	--	--	--	11903	6190
	Perambalur	1	--	--	--	19	--	19	2	17	--	--	--	10810	3773
	Cuddalore	1	--	--	--	43	--	43	43	--	--	--	--	7249	808
	TOTAL : TAMIL NADU	3	--	--	--	64	11	75	47	28	--	--	--	29962	10770
	WEST BENGAL														
	Purulia	1	--	--	--	32	2	34	34	--	--	--	--	760	151
	TOTAL : FIRE-CLAY	23	--	--	--	466	37	503	447	56	--	18	--	292486	38451

12. FLUORITE

GUJARAT															
Vadodara(Baroda)	1	1	--	--	23	3	26	26	--	--	--	--	--	Nil	Nil
MAHARASHTRA															
Chandrapur	1	--	--	--	38	7	45	39	6	--	--	--	--	Nil	Nil

13. GALENA & SPHALARITE

ANDHRA PRADESH															
Guntur	1	1	1	10	--	30	40	40	--	8	--	30	1079	811	
RAJASTHAN															
Ajmer	2	2	2	417	--	138	555	555	--	396	--	138	619001	465394	
Bhilwara	2	2	2	813	--	311	1124	1124	--	813	--	308	93442	1869570	
Udaipur	8	8	4	1068	--	697	1765	1705	60	770	--	347	9423100	13752300	
Rajsamand	2	2	2	1157	--	450	1607	1599	8	444	--	237	1884391	2596793	
													49384 (PR)	74081	
TOTAL : RAJASTHAN	14	14	10	3455	--	1596	5051	4983	68	2423	--	1030	12019934	18684058	
													49384 (PR)	74081	
TOTAL : GALENA & SPHALARITE	15	15	11	3465	--	1626	5091	5023	68	2431	--	1060	12021013	18684869	
													49384 (PR)	74081	

14. GARNET

ANDHRA PRADESH															
Srikakulam	2	--	--	--	38	38	76	66	10	--	37	--	186357	366289	
TAMIL NADU															
Kanyakumari	1	--	--	--	1002	--	1002	1002	--	--	998	--	417427	284038	
Tirunelveli	4	--	--	--	100	20	120	98	22	--	14	--	284675	365684	
TOTAL : TAMIL NADU	5	--	--	--	1102	20	1122	1100	22	--	1012	--	702102	649722	
TOTAL : GARNET	7	--	--	--	1140	58	1198	1166	32	--	1049	--	888459	1016011	

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES			A V E R A G E			D A I L Y E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.		
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T L A B O U R				
												B/G	O/C	A/G	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
15. GOLD															
ANDHRA PRADESH															
	Kurnool	1	--	--	--	2	--	2	2	--	--	--	--	Nil	Nil
JHARKHAND															
	East Singhbhum	1	1	1	36	--	16	52	52	--	--	--	--	5052	22367
KARNATAKA															
	Raichur	4	4	2	1690	205	1617	3512	3313	199	--	--	--	13416	73871
														1 (FN) 3410537	
														1 (FN) 3410537	
UTTARANCHAL															
	Pithoragarh(left side)	1	1	1	7	--	15	22	22	--	--	--	--	Nil	Nil
TOTAL : GOLD		7	6	4	1733	207	1648	3588	3389	199	--	--	--	18468	96237
														1 (FN) 3410537	
16. GRANITE															
ANDHRA PRADESH															
	Chittoor	2	2	--	--	126	6	132	132	--	--	--	--	11812	110077
	Guntur	2	2	--	--	30	4	34	34	--	--	--	--	15864	222923
	Karimnagar	1	1	--	--	60	8	68	68	--	--	--	--	Nil	Nil
	Prakasham	100	99	--	--	4582	1691	6273	6225	48	--	226	148	1180866	16774862
														13444 (PR) 160054	
	Srikakulam	5	4	--	--	102	24	126	126	--	--	--	--	10386	83538
TOTAL : ANDHRA PRADESH		110	108	--	--	4900	1733	6633	6585	48	--	226	148	1218928	17191400
														13444 (PR) 160054	
GOA															
	North Goa	1	1	--	--	13	8	21	21	--	--	4	4	29858	8925
	South Goa	1	1	--	--	48	7	55	55	--	--	--	--	180919	33922
TOTAL : GOA		2	2	--	--	61	15	76	76	--	--	4	4	210777	42848
KARNATAKA															
	Bangalore	3	1	--	--	27	3	30	29	1	--	--	--	463	3120
	Belgaum	1	--	--	--	56	--	56	54	2	--	--	--	Nil	Nil
	Bellary	1	1	--	--	15	--	15	15	--	--	--	--	1903	17958
	Bijapur	4	4	--	--	456	70	526	516	10	--	--	--	38319	1125578
	Gulbarga	1	1	--	--	80	9	89	89	--	--	--	--	Nil	Nil
	Hassan	3	1	--	--	43	8	51	50	1	--	--	--	1286	180197
	Mandy	1	--	--	--	12	4	16	16	--	--	9	--	923	27336
	Mysore	2	--	--	--	17	1	18	18	--	--	--	--	118	997
	Raichur	2	1	--	--	26	6	32	32	--	--	--	--	3241	28906
	Bagalkot	4	4	--	--	476	102	578	576	2	--	--	--	34303	515878
	KOPPAL	2	2	--	--	45	11	56	54	2	--	--	--	21296	190063
	CHAMARAJANAGAR	3	1	--	--	31	6	37	37	--	--	--	--	550	2743
	Ramanagara	3	--	--	--	38	8	46	42	4	--	--	--	Nil	Nil
														370694 (PR) 3004672	
TOTAL : KARNATAKA		30	16	--	--	1322	228	1550	1528	22	--	9	--	102402	2092775
														370694 (PR) 3004672	

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES				A V E R A G E				D A I L Y E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T L A B O U R	B/G	O/C	A/G	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
KERALA															
	Ernakulam	12	12	--	--	236	31	267	231	36	--	--	--	590349 289011 (PR)	616882 1720147
	Kottayam	1	1	--	--	7	--	7	7	--	--	--	--	55633 65103	108922 78139
	Kozhicode	Employment with Stone				26	23	49	44	5	--	--	--	1082748	43422
	Malappuram	2	2	--	--	168	16	184	184	--	--	--	--	954605 105623 (PR)	365567 867276
	Pathanamthitta	8	8	--	--									290788	645415
	Trichur	4	2	--	--	73	11	84	84	--	--	--	--	630201	4130974
	Trivundrum	2	2	--	--	27	5	32	32	--	--	--	--	Nil	Nil
	Palakkad	2	2	1	12	13	2	27	27	--	--	--	--		
TOTAL : KERALA		31	29	1	12	550	88	650	609	41	--	--	--	3669427 394634 (PR)	5989321 2587423
MADHYA PRADESH															
	Chhatarpur	1	1	--	--	185	20	205	205	--	--	--	--	Nil	Nil
ORISSA															
	Bolangir	1	1	--	--	33	--	33	33	--	--	--	--	427 (PR)	3506
	Kalahandi	1	1	--	--	26	4	30	30	--	--	--	--	6002	31361
TOTAL : ORISSA		2	2	--	--	59	4	63	63	--	--	--	--	6002 427 (PR)	31361 3506
RAJASTHAN															
	Bikaner	Employment with Stone and China Clay,clay,white-clay												800	132
TELANGANA															
	Karimnagar	5	5	--	--	215	25	240	240	--	--	--	--	55807 8511 (PR)	418405 14344
	Khammam	1	1	--	--	11	--	11	11	--	--	--	--	449	856
	Ranga Reddy	1	--	--	--	23	--	23	23	--	--	--	--	1000	6641
	Warangal	2	2	--	--	127	9	136	135	1	--	--	--	8211	45025
TOTAL : TELANGANA		9	8	--	--	376	34	410	409	1	--	--	--	65467 8511 (PR)	470927 14344
TAMIL NADU															
	Dharmapuri	23	18	--	--	654	71	725	724	1	--	--	1	31635	534985
	Kanyakumari	1	--	--	--	1	1	2	2	--	--	--	--	Nil	Nil
	Madurai	9	8	--	--	298	73	371	368	3	--	134	--	21634	277842
	Periyar	2	2	--	--	160	10	170	170	--	--	--	--	1388 (PR)	5955
	Pudukkottai	1	--	--	--	23	3	26	26	--	--	--	--	734	770
	Salem	16	15	--	--	529	71	600	597	3	--	--	--	58180	1118468
	South Arcot	2	2	--	--	29	6	35	35	--	--	4	--	998 421 (PR)	11213 2417
	Thanjavur	1	1	--	--	19	--	19	19	--	--	--	--	999	633
	Tiruchirapalli	1	1	--	--	36	--	36	36	--	--	--	--	719	5657
	Tirunelveli	4	4	--	--	65	10	75	75	--	--	43	5	5330	62630
	V.R.P.	6	6	--	--	288	57	345	335	10	--	--	--	29894	343030

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES				A V E R A G E				D A I L Y E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T L A B O U R				
		B/G	O/C	A/G											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Virudhunagar	2	1	--	--	24	21	45	45	--	--	12	--	1397	14407
	Vellore	6	5	--	--	185	22	207	207	--	--	118	11	11689	74858
	Villupuram	11	11	--	--	238	73	311	298	13	--	13	--	10144	135708
	Karur	4	2	--	--	91	10	101	99	2	--	12	--	30940	393686
	Sivaganga	1	1	--	--	16	2	18	18	--	--	--	--	1116	2500
	KRISHNAGIRI	20	18	1	19	601	25	645	645	--	--	27	--	58503	194675
														1000 (PR)	6026
	TOTAL : TAMIL NADU	110	95	1	19	3257	455	3731	3699	32	--	363	17	281719	3294907
														2809 (PR)	14398
	UTTAR PRADESH														
	Lalitpur	3	3	--	--	108	106	214	214	--	--	--	--	12048	223240
	WEST BENGAL														
	Birbhum	2	1	--	--	23	1	24	23	1	--	--	--	40021	14997
	TOTAL : GRANITE	300	265	2	31	10841	2684	13556	13411	145	--	602	169	5607591	29351908
														790519 (PR)	5784398
17.	GRAPHITE														
	JHARKHAND														
	Palamu	3	2	--	--	69	4	73	72	1	--	--	--	3515	23
	Saraikhela Kharsawan	1	--	--	--	17	--	17	17	--	--	16	--	2645	714
	TOTAL : JHARKHAND	4	2	--	--	86	4	90	89	1	--	16	--	6160	737
	ORISSA														
	Bolangir	5	2	--	--	113	7	120	45	75	--	--	--	12698	9332
	Cuttack	1	--	--	--	--	2	2	2	--	--	--	--	Nil	Nil
	Phulabani	1	1	--	--	53	3	56	39	17	--	--	--	10201	2958
	Nuapada	1	1	--	--	15	1	16	8	8	--	--	--	1007	771
	Rayagada	2	--	--	--	31	--	31	31	--	--	--	--	447	326
	TOTAL : ORISSA	10	4	--	--	212	13	225	125	100	--	--	--	24353	13387
	TAMIL NADU														
	Sivaganga	1	1	--	--	37	3	40	40	--	--	--	--	68834	38554
	TOTAL : GRAPHITE	15	7	--	--	335	20	355	254	101	--	16	--	99347	52678

18. GYPSUM

ANDHRA PRADESH															
East Godavari	1	--	--	--	--	2	--	2	2	--	--	--	--	Nil	Nil
JAMMU & KASHMIR															
Deda	1	--	--	--	--	18	9	27	27	--	--	--	--	14046	4215
Ramban	2	--	--	--	--	77	9	86	86	--	--	38	--	51770	25286
TOTAL : JAMMU & KASHMIR	3	--	--	--	--	95	18	113	113	--	--	38	--	65816	29501

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES			A V E R A G E			D A I L Y			E M P L O Y M E N T			OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T L A B O U R				
												B/G	O/C	A/G	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
RAJASTHAN															
Barmer	1	--	--	--	2	--	2	2	--	--	--	--	--	Nil	Nil
Bikaner	11	5	--	--	102	21	123	123	--	--	11	1	2121147	1354802	
Sriganganagar	13	1	--	--	45	26	71	71	--	--	17	18	437498	252942	
Jaisalmer	1	--	--	--	1	8	9	9	--	--	--	--	Nil	Nil	
Jalor	1	--	--	--	2	--	2	2	--	--	--	--	Nil	Nil	
Nagaur	3	1	--	--	12	12	24	24	--	--	--	--	171613	111548	
Hanumangarh	4	--	--	--	6	1	7	7	--	--	--	--	Nil	Nil	
Sri Ganganagar	2	--	--	--	5	1	6	6	--	--	1	--	109073	81266	
TOTAL : RAJASTHAN	36	7	--	--	175	69	244	244	--	--	29	19	2839331	1800559	
TOTAL : GYPSUM	40	7	--	--	272	87	359	359	--	--	67	19	2905147	1830060	
19. IRON															
ANDHRA PRADESH															
Anantpur	4	1	--	--	61	9	70	70	--	--	--	--	2606087	2606087	
Cuddapah	2	2	--	--	76	20	96	96	--	--	--	4	247849	170124	
Kurnool	6	1	--	--	69	4	73	73	--	--	--	--	204122 (FN)	69822	
													59070	97556	
													32623 (FN)	7960	
													72922 (LM)	13126	
TOTAL : ANDHRA PRADESH	12	4	--	--	206	33	239	239	--	--	--	4	2913006	2873767	
													236745 (FN)	77782	
													72922 (LM)	13126	
CHHATTISGARH															
Bastar	2	2	--	--	564	493	1057	1057	--	--	143	109	121466	90001	
													5111826 (FN)	12639328	
													2176099 (LM)	7986816	
Durg	6	6	--	--	1105	1119	2224	2199	25	--	305	--	7188491	5101726	
Rajnandgaon	2	2	--	--	776	14	790	790	--	--	726	--	501555	335684	
Kanker	3	2	--	--	539	31	570	570	--	--	395	--	387868	292031	
													96284 (FN)	162802	
Dantewara	2	2	--	--	678	1033	1711	1711	--	--	--	--	11723684 (FN)	30328655	
													5961383 (LM)	16965020	
Baloda Bazar	1	1	--	--	289	631	920	914	6	--	86	148	3512639 (PR)	2401205	
TOTAL : CHHATTISGARH	16	15	--	--	3951	3321	7272	7241	31	--	1655	257	8199380	5819441	
													16931794 (FN)	43130785	
													8137482 (LM)	24951835	
													3512639 (PR)	2401205	
GOA															
North Goa	38	23	--	--	1522	1300	2822	2799	23	--	200	59	7398034	969023	
													1816257 (FN)	291514	
													396386 (LM)	128802	
South Goa	41	23	--	--	1033	785	1818	1789	29	--	479	299	3591033	767859	

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES				A V E R A G E				D A I L Y				E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	OPEN C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T			L A B O U R	B/G	O/C	A/G		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
																		348161 (FN) 88828 122467 (LM) 236153 130788 (PR) 89124	
Goa	Margaon	1	--	--	--	27	9	36	36	--	--	1	5	Nil	Nil				
		2	1	--	--	20	15	35	35	--	--	--	--	92600	10782				
TOTAL : GOA		82	47	--	--	2602	2109	4711	4659	52	--	680	363	11081667	1747664 2164418 (FN) 380342 518853 (LM) 364955 216498 (PR) 245560				
JHARKHAND																			
West Singhbhum		25	18	--	--	2429	5342	7771	7398	373	--	944	1932	6778341	5324423 8429146 (FN) 4237538 2922074 (LM) 1550393 7899183 (PR) 7895250				
Saraikhela Kharsawan		1	--	--	--	--	2	2	2	--	--	--	--	Nil	Nil				
TOTAL : JHARKHAND		26	18	--	--	2429	5344	7773	7400	373	--	944	1932	6778341	5324423 8429146 (FN) 4237538 2922074 (LM) 1550393 7899183 (PR) 7895250				
KARNATAKA																			
Bellary		73	51	--	--	4160	1235	5395	5336	59	--	1274	512	4661956	2655493 8732217 (FN) 10380968 2676977 (LM) 4202196 5712365 (PR) 8738625				
Bijapur		2	2	--	--	26	13	39	27	12	--	--	--	247200	86520 273713 (FN) 67078				
Chikmagalur		1	1	--	--	18	--	18	18	--	--	--	--	67326	5857				
Chitradurga		17	12	--	--	1398	100	1498	1495	3	--	280	16	6789770	3548096 618417 (FN) 921078 25676 (LM) 51763 250 (PR) 385				
Dharwar		1	1	--	--	25	9	34	34	--	--	24	3	623095	184703				
Tumkur		10	5	--	--	185	69	254	249	5	--	50	29	465421	175338 65041 (LM) 71545 85340 (PR) 23469				
TOTAL : KARNATAKA		104	72	--	--	5812	1426	7238	7159	79	--	1628	560	12854768	6656008 9624347 (FN) 11369125 2767694 (LM) 4325504 5797955 (PR) 8762479				
MADHYA PRADESH																			
Hoshangabad																			
Jabalpur																			
Rewa																			
TOTAL : MADHYA PRADESH		11	10	--	--	178	586	764	693	71	--	--	--	1044651	716747 1019073 (FN) 759336				

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES				A V E R A G E				D A I L Y				E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.																	
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M I L E	C O N T R A C T	L A B O U R	B/G	O/C	A/G																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16																			
																		23495 (LM) 14312																		
<hr/>																																				
MAHARASHTRA																																				
Bhandara		1	--	--	--	36	11	47	44	3	--	--	--	10110	3340																					
Chandrapur		1	1	--	--	179	5	184	184	--	--	--	--	250609	56387																					
Gadehiroti		1	--	--	--	2	--	2	2	--	--	--	--	Nil	Nil																					
Sindhudurg		11	11	--	--	511	71	582	582	--	--	314	33	510745	580263																					
														39351 (FN)	37689																					
														738172 (LM)	1582125																					
														154483 (PR)	207605																					
Wrong Code.		1	--	--	--	15	1	16	16	--	--	--	--	2093	5571																					
TOTAL : MAHARASHTRA		15	12	--	--	743	88	831	828	3	--	314	33	773557	645561																					
														39351 (FN)	37689																					
														738172 (LM)	1582125																					
														154483 (PR)	207605																					
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ORISSA																																				
Bolangir		1	--	--	--	1	15	16	16	--	--	--	--	Nil	Nil																					
Keonjhar		56	44	--	--	6037	7948	13985	13079	906	--	1810	2242	55072900	42865822																					
														9821376 (FN)	11595287																					
														11234759 (LM)	15366537																					
														7209035 (PR)	4310133																					
Mayurbhanj		8	3	--	--	2364	102	2466	1970	496	--	788	--	9853	3136																					
														1751790 (FN)	6792757																					
														1094549 (LM)	136743																					
														354167 (PR)	537237																					
Sundergarh		38	31	--	--	3518	2315	5833	4930	903	--	1072	858	8626241	9469199																					
														2038150 (FN)	2744124																					
														677084 (LM)	2574169																					
														7213789 (PR)	4923973																					
Jajpur		Employment with Quartz Stone and Manganese																77627	255859																	
TOTAL : ORISSA		103	78	--	--	11920	10380	22300	19995	2305	--	3670	3100	63786621	52594015																					
														13611316 (FN)	21132168																					
														13006392 (LM)	18077449																					
														14776991 (PR)	9771343																					
<hr/>																																				
RAJASTHAN																																				
Bhilwara		2	1	--	--	530	336	866	866	--	--	384	309	4804071	1150																					
Jaipur		1	1	--	--	54	14	68	68	--	--	--	--	47620 (LM)	36005																					
														181932 (PR)	185365																					
TOTAL : RAJASTHAN		3	2	--	--	584	350	934	934	--	--	384	309	4804071	1150																					
														47620 (LM)	36005																					
														181932 (PR)	185365																					
TOTAL : IRON		372	258	--	--	28425	23637	52062	49148	2914	--	9275	6558	112236062	76378777																					
														52056190 (FN)	81124764																					
														28234704 (LM)	50915705																					
														32539681 (PR)	29468806																					

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES				A V E R A G E				D A I L Y				E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M I L E	C O N T R A C T	L A B O U R	B/G	O/C	A/G			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
20. KYANITE																			
JHARKHAND																			
East Singhbhum		1	--	--	--	9	--	9	9	--	--	--	--	--	Nil	Nil			
MAHARASHTRA																			
Bhandara		3	--	--	--	38	2	40	40	--	--	--	--	--	8663	2094			
TOTAL : KYANITE		4	--	--	--	47	2	49	49	--	--	--	--	--	8663	2094			
21. LATERITE																			
ANDHRA PRADESH																			
Cuddapah			Employment with Iron																
East Godavari		11	8	--	--	240	12	252	252	--	--	95	--	3412365	27755				
Ranga Reddy		2	--	--	--	9	2	11	11	--	--	--	--	37576	106				
TOTAL : ANDHRA PRADESH		13	8	--	--	249	14	263	263	--	--	95	--	3595891	28271				
GUJARAT																			
Kutch		2	2	--	--	17	--	17	17	--	--	--	--	168911	16485				
KARNATAKA																			
Belgaum		2	2	--	--	117	7	124	124	--	--	15	--	30000	2928				
														105550 (PR)	20051				
														105550 (PR)	20051				
KERALA																			
Kannur		1	--	--	--	10	2	12	9	3	--	--	--	25300	5435				
MADHYA PRADESH																			
Jabalpur		1	--	--	--	40	1	41	18	23	--	--	--	89046	2873				
Rewa			Employment with Iron											15000	3000				
TOTAL : MADHYA PRADESH		1	--	--	--	40	1	41	18	23	--	--	--	104046	5873				
MAHARASHTRA																			
Kolhapur		1	--	--	--	23	--	23	23	--	--	16	--	Nil	Nil				
RAJASTHAN																			
Jhalawar		1	1	--	--	112	21	133	133	--	--	--	--	1720177	276782				
TOTAL : LATERITE		21	13	--	--	568	45	613	587	26	--	126	--	5644325	335775				
														105550 (PR)	20051				

22. LIMESTONE

ANDAMAN & NICOBAR ISLAND																	
Andamana		2	2	--	--	134	17	151	151	--	--	--	--	Nil	Nil		
ANDHRA PRADESH																	
Adilabad		1	1	--	--	8	10	18	18	--	--	--	--	73160	11706		
Anantpur		5	4	--	--	128	148	276	276	--	--	59	116	6979762	1059315		

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES				A V E R A G E				D A I L Y E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T L A B O U R				
		B/G	O/C	A/G											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Cuddapah	9	9	--	--	270	78	348	343	5	--	81	23	29617593	4934908
	Guntur	9	7	--	--	199	116	315	315	--	--	--	--	4636850	2739930
	Krishna	9	9	--	--	239	140	379	371	8	--	93	47	5123031	27876863
	Kurnool	15	6	--	--	505	240	745	744	1	--	188	114	17764380	3007609
	Nalgonda	1	1	--	--	9	1	10	10	--	--	--	--	128748	21758
	Vizianagaram	Employment with Manganese												37110	6172
TOTAL : ANDHRA PRADESH		49	37	--	--	1358	733	2091	2077	14	--	421	300	64360634	39658261
<hr/>															
ASSAM															
	Karbi Arglong	1	1	--	--	22	12	34	34	--	--	--	--	124358	568
	North Cachar Hills	3	3	--	--	73	8	81	81	--	--	--	--	818725	320265
TOTAL : ASSAM		4	4	--	--	95	20	115	115	--	--	--	--	943083	320834
<hr/>															
BIHAR															
	Rohtas	3	2	--	--	173	53	226	222	4	--	--	--	950924	346455
<hr/>															
CHHATTISGARH															
	Bilaspur	1	1	--	--	124	4	128	128	--	--	--	--	2126505	149141
	Durg	6	5	--	--	158	205	363	357	6	--	--	--	2476880	597441
	Raipur	10	10	--	--	582	210	792	792	--	--	31	54	23917942	42309424
	Janjgir(champa)	4	1	--	--	168	9	177	177	--	--	--	--	2234697	375744
	Baloda Bazar	4	3	--	--	191	156	347	347	--	--	16	33	12143354	2263118
TOTAL : CHHATTISGARH		25	20	--	--	1223	584	1807	1801	6	--	47	87	42899378	45694868
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GUJARAT															
	Amreli	4	4	--	--	581	92	673	673	--	--	117	4	13915987	2211076
	Banas Kantha	1	--	--	--	1	--	1	1	--	--	--	--	Nil	Nil
	Jamnagar	7	1	--	--	94	16	110	110	--	--	26	--	1374855	165881
	Junagadh	30	15	--	--	1163	54	1217	1096	121	--	592	--	11295217	1596132
														27450 (PR)	1799
	Kutch	3	3	--	--	221	30	251	251	--	--	71	--	3894732	550806
	Porbandar	7	5	--	--	379	110	489	377	112	--	97	53	2791145	457200
	Gir-somnath	3	1	--	--	102	4	106	106	--	--	39	--	513994	67349
TOTAL : GUJARAT		55	29	--	--	2541	306	2847	2614	233	--	942	57	33785930	5048443
														27450 (PR)	1799
<hr/>															
HIMACHAL PRADESH															
	Bilaspur	1	1	--	--	35	31	66	66	--	--	--	--	4241700	513187
	Mandi	1	--	--	--	2	2	2	2	--	--	--	--	Nil	Nil
	Sirmaur	27	17	--	--	723	106	829	814	15	--	--	--	2315031	469042
	Solan	3	3	--	--	269	8	277	277	--	--	--	--	8636590	1467660
TOTAL : HIMACHAL PRADESH		32	21	--	--	1027	147	1174	1159	15	--	--	--	15193321	2449890
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HARYANA															
	Mahendragarh	1	--	--	--	14	2	16	16	--	--	--	--	2760	373
JHARKHAND															

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES			A V E R A G E			D A I L Y E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.		
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T L A B O U R				
												B/G	O/C	A/G	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Hazaribagh	2	2	--	--	24	12	36	34	2	--	--	51410	13458	
	Palamau	3	--	--	--	104	58	162	158	4	--	75	--	32595	6236
	Ranchi	3	2	--	--	45	26	71	71	--	--	--	--	38767 (PR)	6059
	West Singhbhum	10	3	--	--	490	135	625	546	79	--	27	--	1120568	180231
	Garhwa	3	--	--	--	393	393	381	381	12	--	--	--	Nil	Nil
TOTAL : JHARKHAND		21	7	--	--	663	624	1287	1190	97	--	102	--	1208786	200250
														38767 (PR)	6059
	JAMMU & KASHMIR														
	Pulwana	1	1	--	--	33	7	40	40	--	--	--	--	Nil	Nil
	KARNATAKA														
	Belgaum	4	2	--	--	37	5	42	36	6	--	--	--	60912	11934
	Bijapur	3	3	--	--	64	26	90	77	13	--	--	--	159444	20656
	Chitradurga	6	6	--	--	164	66	230	230	--	--	23	--	5078939	653460
	Gulbarga	12	10	--	--	585	109	694	694	--	--	40	--	24215184	5386006
	Shimoga	1	1	--	--	9	8	17	17	--	--	--	--	31600	30297
	Tumkur	4	2	--	--	275	51	326	321	5	--	4	--	245227	8320
	Bagalkot	23	7	--	--	405	38	443	425	18	--	106	7	3229270	617966
														303891 (PR)	34959
TOTAL : KARNATAKA		53	31	--	--	1539	303	1842	1800	42	--	173	7	33020576	6728639
														303891 (PR)	34959
	KERALA														
	Alleppey	1	1	--	--	57	--	57	57	--	--	--	--	14190	12615
	Palghat	1	1	--	--	64	133	197	197	--	--	--	--	598661 (PR)	59866
TOTAL : KERALA		2	2	--	--	121	133	254	254	--	--	--	--	14190	12615
														598661 (PR)	59866
	MEGHALAYA														
	East Khasi Hills	3	3	--	--	170	54	224	215	9	--	21	6	2047310	2111554
	Jaintia Hills	8	7	--	--	191	54	245	241	4	--	--	--	1509573	418284
TOTAL : MEGHALAYA		11	10	--	--	361	108	469	456	13	--	21	6	3556883	2529838
	MADHYA PRADESH														
	Damoh	5	5	--	--	180	107	287	287	--	--	--	--	8494913	2056117
	Datia	1	1	--	--	8	--	8	8	--	--	--	--	18836	4182
	Jabalpur	13	11	--	--	993	541	1534	1391	143	--	93	92	2930707	421020
														948363 (PR)	109098
	Mandsaur	2	2	--	--	101	37	138	138	--	--	--	--	2622722	184822
	Rewa	4	4	--	--	396	26	422	422	--	--	--	--	7548112	1776413
	Satna	28	25	--	--	1369	301	1670	1665	5	--	588	163	46984144	11009005
														1764633 (PR)	26195
	Sidhi	3	3	--	--	78	18	96	96	--	--	31	5	430713	Negligible
	Katni	13	10	--	--	530	36	566	559	7	--	--	--	3775369	1320236
	Neemuch	2	2	--	--	91	35	126	126	--	--	--	--	3652942	236463
TOTAL : MADHYA PRADESH		71	63	--	--	3746	1101	4847	4692	155	--	712	260	76458458	17008259

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES				A V E R A G E				D A I L Y E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T L A B O U R				
		B/G	O/C	A/G											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
														2712996 (PR)	135293
<hr/>															
MAHARASHTRA															
Chandrapur		5	5	--	--	509	152	661	630	31	--	249	2	10500055	1596588
Sindhudurg		Employment with Iron												176778 (PR)	43364
Yavatmal		8	3	--	--	172	39	211	188	23	--	55	--	2973640	1925583
TOTAL : MAHARASHTRA		13	8	--	--	681	191	872	818	54	--	304	2	13473695	3522171
														176778 (PR)	43364
<hr/>															
ORISSA															
Kalahandi		1	1	--	--	18	3	21	21	--	--	16	3	11630	1256
Koraput		3	1	--	--	43	13	56	56	--	--	--	--	9435	708
Sambalpur		1	1	--	--	240	25	265	264	1	--	155	--	933996	361008
Sundergarh		11	11	--	--	1795	870	2665	2233	432	--	197	97	11676822	1368657
Bargarh		1	1	--	--	245	218	463	463	--	--	116	184	445784	187229
TOTAL : ORISSA		17	15	--	--	2341	1129	3470	3037	433	--	484	284	13077667	1918859
<hr/>															
RAJASTHAN															
Ajmer		2	2	--	--	112	112	224	224	--	--	--	--	2939025	491062
Banswara		1	1	--	--	54	11	65	65	--	--	--	--	1366035	238633
Barmer		1	1	--	--	18	8	26	24	2	--	--	--	2730	82
Bundi		1	1	--	--	38	2	40	40	--	--	--	--	478777	173695
Chittorgarh		10	10	--	--	480	118	598	598	--	--	160	12	12436961	2941019
Jaipur		5	4	--	--	601	54	655	655	--	--	115	--	23750734	2359826
Jaisalmer		2	2	--	--	235	136	371	371	--	--	183	71	705357	91696
														2529293 (FN)	1214061
Jhalawar		19	19	--	--	1140	58	1198	1100	98	--	70	3	55956909	7384707
														44363 (PR)	1641
Jodhpur		2	1	--	--	46	14	60	60	--	--	--	--	21313	2364
Kota		42	37	--	--	4837	508	5345	4776	569	--	226	--	247961567	22998834
														4098 (PR)	1954
Nagaur		10	7	--	--	195	65	260	259	1	--	61	5	1320721	343601
Pali		6	5	--	--	665	76	741	741	--	--	197	4	18021008	1108700
Sikar		2	1	--	--	3	3	3	3	--	--	--	--	34533	9236
Sirohi		5	5	--	--	407	143	550	550	--	--	64	--	17621026	2636236
Udaipur		1	--	--	--	4	--	4	4	--	--	--	--	Nil	Nil
TOTAL : RAJASTHAN		109	96	--	--	8832	1308	10140	9470	670	--	1076	95	382616696	40779691
														2529293 (FN)	1214061
														48461 (PR)	3595
<hr/>															
TELANGANA															
Adilabad		4	4	--	--	946	1260	2206	2206	--	--	--	--	7920502	8801393
Karimnagar		1	1	--	--	60	58	118	118	--	--	--	--	709677	311137
Nalgonda		29	29	--	--	828	66	894	890	4	--	75	2	21164804	3215390
Ranga Reddy		5	5	--	--	179	37	216	216	--	--	--	--	7051608	488103
TOTAL : TELANGANA		39	39	--	--	2013	1421	3434	3430	4	--	75	2	36846591	12816023
<hr/>															
TAMIL NADU															

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES				A V E R A G E				D A I L Y				E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	OPEN C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T			L A B O U R					
		B/G	O/C	A/G															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
	Coimbatore	3	3	--	--	54	29	83	83	--	--	7	--	1153337	347840				
	Madurai	1	1	--	--	95	3	98	98	--	--	--	--	3160634	521505				
	Salem	5	5	--	--	224	38	262	251	11	--	80	--	476079	637815				
	Thanjavur	1	1	--	--	24	1	25	9	16	--	--	--	27090	2790				
	Tiruchirapalli	10	9	--	--	356	23	379	379	--	--	89	5	7094152	1674653				
	Tirunelveli	11	11	--	--	311	35	346	346	--	--	19	2	1216666	1876446				
	Kamrajar	1	1	--	--	18	1	19	6	13	--	--	--	148888	77422				
	Dindigul-Anna	3	3	--	--	108	25	133	129	4	--	60	10	2026781	583707				
	Virudhunagar	7	7	--	--	198	72	270	270	--	--	96	23	1907715	262992				
	Perambalur	3	2	--	--	94	11	105	105	--	--	--	--	1656830	3494759				
	Ariyalur	17	14	--	--	504	48	552	552	--	--	223	9	6534473	1661706				
	TOTAL : TAMIL NADU	62	57	--	--	1986	286	2272	2228	44	--	574	49	25402645	11141635				
	UTTARANCHAL																		
	Dehradun	1	--	--	--	1	29	30	30	--	--	--	--	49360	4665				
	Tehri Garhwal	1	1	--	--	30	4	34	34	--	--	--	--	31120	3112				
	TOTAL : UTTARANCHAL	2	1	--	--	31	33	64	64	--	--	--	--	80480	7777				
	UTTAR PRADESH																		
	Sonebhadra	2	2	--	--	113	26	139	139	--	--	--	--	5789108	948320				
	TOTAL : LIMESTONE	574	447	--	--	29025	8532	37557	35773	1784	--	4931	1149	749681805	191133200				
														2529293 (FN)	1214061				
														3907004 (PR)	284934				
	23. MAGNESITE																		
	JHARKHAND																		
	East Singhbhum	1	1	--	--	47	10	57	38	19	--	--	--	18551	12986				
	KARNATAKA																		
	Mysore	4	2	--	--	106	83	189	137	52	--	30	30	16256	22338				
														77028 (PR)	21752				
														77028 (PR)	21752				
	TAMIL NADU																		
	Salem	10	6	--	--	1943	30	1973	1034	939	--	91	--	516815	935263				
	UTTARANCHAL																		
	Almora	1	1	--	--	109	56	165	165	--	--	17	22	36219	51806				
	TOTAL : MAGNESITE	16	10	--	--	2205	179	2384	1374	1010	--	138	52	587841	1022393				
														77028 (PR)	21752				
	24. MANGANESE																		
	ANDHRA PRADESH																		
	Cuddapah	Employment with Iron												10956	29565				
	Vizianagaram	30	23	--	--	1165	93	1258	764	494	--	14	--	386712	566800				
														2529 (PR)	12643				

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES			A V E R A G E D A I L Y E M P L O Y M E N T						OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.			
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M I L E	C O N T R A C T L A B O U R	B/G	O/C	A/G	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
TOTAL : ANDHRA PRADESH		30	23	--	--	1165	93	1258	764	494	--	14	--	397668	596365
														2529 (PR)	12643
GOA															
North Goa		2	1	--	--	95	29	124	103	21	--	--	--	600	2400
														35267 (PR)	60072
South Goa		9	5	--	--	240	14	254	160	94	--	52	1	1842608	1835015
TOTAL : GOA		11	6	--	--	335	43	378	263	115	--	52	1	1843208	1837415
														35267 (PR)	60072
GUJARAT															
Panchmahal		1	1	--	--	9	18	27	27	--	--	--	--	Nil	Nil
														Nil	Nil
Vadodara (Baroda)		1	1	--	--	13	13	26	26	--	--	--	--	Nil	Nil
														Nil	Nil
Wrong Code.		1	--	--	--	2	--	2	2	--	--	--	--	Nil	Nil
TOTAL : GUJARAT		3	2	--	--	24	31	55	55	--	--	--	--	Nil	Nil
JHARKHAND															
West Singhbhum		3	1	--	--	67	73	140	131	9	--	--	--	192511	51142
KARNATAKA															
Bangalore		1	--	--	--	12	6	18	15	3	--	--	--	Nil	Nil
														195686	407610
Bellary		6	3	--	--	805	916	1721	1584	137	--	157	89	27600 (FN)	55495
														20195 (LM)	28711
Chitradurga		8	3	--	--	128	34	162	150	12	--	--	--	149644 (PR)	402718
														275187	157896
Tumkur		1	--	--	--	16	2	18	14	4	--	--	--	3570 (PR)	491
														1904	1466
Uttar Kannada		2	--	--	--	56	17	73	73	--	--	18	--	8100 (PR)	8280
TOTAL : KARNATAKA		18	6	--	--	1017	975	1992	1836	156	--	175	89	472777	566972
														27600 (FN)	55495
														20195 (LM)	28711
														161314 (PR)	411489
MADHYA PRADESH															
Balaghat		27	24	16	3045	1314	1561	5920	5124	796	439	--	76	1025346	2920520
														106524 (PR)	469165
Chhindwara		4	3	1	2	252	29	283	259	24	--	--	--	2060	5695
														20193 (PR)	48867
Jabalpur		2	1	--	--	22	5	27	26	1	--	--	--	21400	78229
														120150	407237
Jhabua		1	1	--	--	136	34	170	114	56	--	--	--	22149	26579
Rewa		Employment with Iron and Dolomite													
TOTAL : MADHYA PRADESH		34	29	17	3047	1724	1629	6400	5523	877	439	--	76	1191105	3438260
														126717 (PR)	518032
MAHARASHTRA															
Bhandara		6	5	2	1000	2311	1265	4576	3590	986	89	1082	58	786679	4187335
														265063 (PR)	923400

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES			A V E R A G E			D A I L Y E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.		
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T L A B O U R				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Nagpur	12	9	7	1077	486	1212	2775	2395	380	41	65	400	754793 25302 (PR)	2122932 102972
	TOTAL : MAHARASHTRA	18	14	9	2077	2797	2477	7351	5985	1366	130	1147	458	1541472 290365 (PR)	6310267 1026372
	ORISSA														
	Keonjhar	17	9	--	--	1873	1975	3848	2987	861	--	978	1557	258654 66 (LM)	615711 16
	Koraput	1	1	--	--	44	19	63	36	27	--	--	--	410698 (PR)	282278 Nil
	Sundergarh	17	11	--	--	719	406	1125	845	280	--	369	23	307799	589650 Nil
	TOTAL : ORISSA	35	21	--	--	2636	2400	5036	3868	1168	--	1347	1580	566453 66 (LM)	1205361 16
														410698 (PR)	282278
	RAJASTHAN														
	Tonk	Employment with Iron Dolomite and Stone											16700	37975	
	TOTAL : MANGANESE	152	102	26	5124	9765	7721	22610	18425	4185	569	2735	2204	6221894 27600 (FN) 20261 (LM) 1026890 (PR)	14043756 55495 28727 2310886
25. MARBLE															
	ANDHRA PRADESH														
	Nellore	Employment with Mica											1	1	
	GUJARAT														
	Amreli	Employment with Mica and Limestone											397337	164032	
	Banas Kantha	4	3	--	--	273	58	331	331	--	--	--	--	761679	763542
	Junagadh	Employment with Mica and Limestone											178407	73651	
	Porbandar	Employment with Mica and Limestone											373796	1856	
	Gir-somnath	Employment with Mica and Limestone											111548	65461	
	TOTAL : GUJARAT	4	3	--	--	273	58	331	331	--	--	--	--	1822767	1068542
	MADHYA PRADESH														
	Jabalpur	1	1	--	--	19	21	40	40	--	--	--	--	15407	2605
	Katni	2	2	--	--	43	8	51	51	--	--	--	--	9449	4597
	TOTAL : MADHYA PRADESH	3	3	--	--	62	29	91	91	--	--	--	--	24856	7203
	RAJASTHAN														
	Ajmer	1	1	--	--	28	18	46	46	--	--	--	--	27915	13958
	Banswara	2	1	--	--	133	43	176	176	--	--	--	--	78955	93974
	Jaipur	2	1	--	--	34	7	41	41	--	--	--	--	25072	9502
	Nagaur	1	1	--	--	4	3	7	7	--	--	--	--	36197	46266
	Sikar	2	2	--	--	39	17	56	56	--	--	--	--	91413	80998
	Sirohi	1	1	--	--	121	46	167	167	--	--	--	--	135880	131394

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES			A V E R A G E			D A I L Y E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.		
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T L A B O U R				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Rajsamand	6	5	--	--	735	165	900	900	--	--	--	--	1346530	1794727
	TOTAL : RAJASTHAN	15	12	--	--	1094	299	1393	1393	--	--	--	--	1741962	2170819
	TOTAL : MARBLE	22	18	--	--	1429	386	1815	1815	--	--	--	--	3589586	3246565

26. MICA

ANDHRA PRADESH															
Nellore	23	21	11	227	92	110	429	368	61	--	--	--	--	2581700	44490
BIHAR															
Nawada	4	3	2	36	33	16	85	85	--	--	--	--	--	2565057	18822
JHARKHAND															
Koderma	2	--	--	--	--	10	10	10	--	--	--	--	--	Nil	Nil
Garhwa	2	1	1	15	--	10	25	25	--	--	--	--	--	19354	71
TOTAL : JHARKHAND	4	1	1	15	--	20	35	35	--	--	--	--	--	19354	71
TOTAL : MICA	31	25	14	278	125	146	549	488	61	--	--	--	--	5166111	63383

27. OCHRE

GUJARAT															
Patan	1	--	--	--	16	--	16	16	--	--	--	--	--	592	59
MADHYA PRADESH															
Jabalpur		Employment with Iron												Nil	Nil
Satna	1	--	1	14	--	5	19	19	--	--	--	--	--	970	78
TOTAL : MADHYA PRADESH	1	--	1	14	--	5	19	19	--	--	--	--	--	970	78
MAHARASHTRA															
Bhandara		Employment with Iron and Sillimanite												2013	493
RAJASTHAN															
Bikaner		Employment with Iron Sillimanite and Fire-clay												930	228
TOTAL : OCHRE	2	--	1	14	16	5	35	35	--	--	--	--	--	4505	857

28. QUARTZ

ANDHRA PRADESH															
Nellore	3	2	--	--	42	32	74	40	34	--	18	--	22522	11995	
Vizianagaram	3	--	--	--	70	--	70	38	32	--	18	--	945 (PR)	280	
TOTAL : ANDHRA PRADESH	6	2	--	--	112	32	144	78	66	--	36	--	52265	17204	

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES				A V E R A G E	D A I L Y	E M P L O Y M E N T				OUTPUT*	VALUE IN '000 Rs.		
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D			O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T L A B O U R		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BIHAR															
	Munger	2	--	--	--	31	7	38	38	--	--	--	--	57648	18907
CHHATTISGARH															
	Raigarh	3	--	--	--	156	11	167	157	10	--	123	7	36935	5885
JHARKHAND															
	West Singhbhum	1	--	--	--	31	6	37	37	--	--	--	--	7494	16795
	East Singhbhum	1	1	1	25	--	4	29	29	--	--	--	--	3724	14362
	Saraikela Kharsawan	1	--	--	--	18	3	21	20	1	--	--	--	Nil	Nil
	TOTAL : JHARKHAND	3	1	1	25	49	13	87	86	1	--	--	--	11218	31158
MADHYA PRADESH															
	Jabalpur	Employment with Mica and Iron												40	17
ORISSA															
	Mayurbhanj	2	--	--	--	50	--	50	41	9	--	--	--	8919	847
	Boudh	1	--	--	--	22	--	22	22	--	--	--	--	1454 (PR)	144
	Jajpur	1	--	--	--	19	--	19	19	--	--	--	--	3315	663
	Jharsuguda	2	2	--	--	120	12	132	116	16	--	104	7	19268	24188
	TOTAL : ORISSA	6	2	--	--	211	12	223	198	25	--	104	7	31502	25699
														1454 (PR)	144
RAJASTHAN															
	Sikar	2	--	--	--	67	9	76	75	1	--	--	--	65	3
	Tonk	1	1	--	--	10	8	18	18	--	--	--	--	186627 (PR)	349067
	TOTAL : RAJASTHAN	3	1	--	--	77	17	94	93	1	--	--	--	12268	2454
														12333	2457
														186627 (PR)	349067
TELANGANA															
	Mahboob Nagar	3	3	--	--	65	9	74	71	3	--	10	--	209380	61898
	Medak	2	1	--	--	95	--	95	91	4	--	--	--	16319	2448
	Nalgonda	2	--	--	--	4	2	6	6	--	--	--	--	60	36
	TOTAL : TELANGANA	7	4	--	--	164	11	175	168	7	--	10	--	225759	64382
TAMIL NADU															
	Tirrupur	1	--	--	--	30	2	32	14	18	--	--	--	2390	825
	Periyar	2	--	--	--	88	--	88	40	48	--	--	--	1921	618
	Salem	1	--	--	--	33	--	33	12	21	--	--	--	1749	3856
	Karur	1	--	--	--	53	--	53	12	41	--	--	--	2460 (PR)	5424
	Namakkal	1	--	--	--	26	--	26	8	18	--	--	--	2866	1003
	TOTAL : TAMIL NADU	6	--	--	--	230	2	232	86	146	--	--	--	1883 (PR)	4573
														8926	6302
														4343 (PR)	9996

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES				A V E R A G E				D A I L Y E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T L A B O U R	B/G	O/C	A/G	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
WEST BENGAL															
	Purulia	1	1	--	--	42	14	56	56	--	--	40	11	12785	3644
TOTAL : QUARTZ		38	11	1	25	1095	119	1239	983	256	--	313	25	449411	175654
														193369 (PR)	359488
29. SANDSTONE															
HARYANA															
	Karnal	1	1	--	--	16	--	16	16	--	--	--	--	226986	8371
JHARKHAND															
	Sahebganj	2	2	--	--	26	8	34	32	2	--	--	--	11254	2251
RAJASTHAN															
	Bundi	1	1	--	--	186	16	202	202	--	--	--	--	68032	123300
	Jaipur	1	--	--	--	3	15	18	18	--	--	--	--	Nil	Nil
TOTAL : RAJASTHAN		2	1	--	--	189	31	220	220	--	--	--	--	68032	123300
UTTAR PRADESH															
	Allahabad	1	1	--	--	36	2	38	38	--	--	33	2	404715	96753
TOTAL : SANDSTONE		7	6	--	--	269	41	310	308	2	--	33	2	710987	230675
30. SELENITE															
RAJASTHAN															
	Barmer	2	2	--	--	10	6	16	16	--	--	--	--	2105	4210
	Bikaner	1	--	--	--	2	3	5	3	2	--	--	--	Nil	Nil
TOTAL : RAJASTHAN		3	2	--	--	12	9	21	19	2	--	--	--	2105	4210
TOTAL : SELENITE		3	2	--	--	12	9	21	19	2	--	--	--	2105	4210
31. SILICA															
ANDHRA PRADESH															
	Nellore	3	--	--	--	56	--	56	24	32	--	--	--	103495	5430
GUJARAT															
	Kutch	1	1	--	--	12	--	12	12	--	--	--	--	383710	76685
HARYANA															
	Faridabad	11	10	--	--	1320	381	1701	1701	--	--	293	--	8353649	1523890
	Gurgaon	3	3	--	--	168	16	184	184	--	--	--	--	1037022	103702
	Wrong Code.	1	1	--	--	14	12	26	26	--	--	--	--	347116 (PR)	49533
TOTAL : HARYANA		15	14	--	--	1502	409	1911	1911	--	--	293	--	9706425	1697059
														347116 (PR)	49533

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES				A V E R A G E				D A I L Y E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T L A B O U R				
		B/G	O/C	A/G											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
KARNATAKA															
Dakshin Kannada		1	--	--	--	2	--	2	2	--	--	--	--	Nil	Nil
Udipi		6	--	--	--	20	6	26	17	9	--	18	--	41000	18245
TOTAL : KARNATAKA		7	--	--	--	22	6	28	19	9	--	18	--	41000	18245
MAHARASHTRA															
Ratnagiri		1	1	--	--	23	8	31	19	12	--	20	3	8703 (PR)	2499
Sindhudurg		9	7	--	--	166	205	371	326	45	--	7	--	386899 104189 (PR)	96708 60864
TOTAL : MAHARASHTRA		10	8	--	--	189	213	402	345	57	--	27	3	386899 112892 (PR)	96708 63363
RAJASTHAN															
Bharatpur		1	1	--	--	34	10	44	44	--	--	--	--	26881	841
Bundi		2	2	--	--	74	289	363	235	128	--	--	--	184333 (PR)	76435
Jaipur		2	2	--	--	51	13	64	49	15	--	--	--	14275 11143 (PR)	4283 1337
Dausa		1	--	--	--	4	14	18	18	--	--	--	--	26070	11732
TOTAL : RAJASTHAN		6	5	--	--	163	326	489	346	143	--	--	--	67226 195476 (PR)	16855 77772
TAMIL NADU															
Kancheepuram		1	--	--	--	35	3	38	6	32	--	34	3	6880	2486
UTTAR PRADESH															
Allahabad		1	1	--	--	--	2	2	2	--	--	--	--	Nil	Nil
TOTAL : SILICA		44	29	--	--	1979	959	2938	2665	273	--	372	6	10695635 655484 (PR)	1913468 190668
32. SILLIMANITE															
ANDHRA PRADESH															
Srikakulam		1	1	--	--	130	365	495	467	28	--	--	217	61088	481775
KERALA															
Kollam		1	1	--	--	13	366	379	350	29	--	--	--	139258	358145
MAHARASHTRA															
Bhandara		4	3	--	--	291	34	325	308	17	--	--	--	5614 48386 (PR) 48386 (PR)	1677 358072 358072
ORISSA															
Ganjam		1	1	--	--	114	857	971	905	66	--	10	178	225173 (PR)	245104
TAMIL NADU															
Kanyakumari		2	--	--	--	1078	267	1345	1331	14	--	405	7	138775	43714

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES			A V E R A G E			D A I L Y			E M P L O Y M E N T			OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T L A B O U R				
												B/G	O/C	A/G	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	TOTAL : SILLIMANITE	9	6	--	--	1626	1889	3515	3361	154	--	415	402	344735 273559 (PR)	885312 603177

33. SLATE

HARYANA	Rewani	2	--	--	--	162	7	169	169	--	--	--	--	48986	51666
TOTAL : SLATE		2	--	--	--	162	7	169	169	--	--	--	--	48986	51666

34. STEATITE

ANDHRA PRADESH	Anantpur	2	1	2	20	--	15	35	30	5	--	--	--	7956	941
	Kurnool	5	4	1	7	87	24	118	104	14	--	--	--	67402	18146
TOTAL : ANDHRA PRADESH		7	5	3	27	87	39	153	134	19	--	--	--	75358	19087

JHARKHAND	Pakur	1	1	--	--	22	1	23	23	--	--	--	--	Nil	Nil
MADHYA PRADESH	Shivpuri	2	1	--	--	115	11	126	102	24	--	--	--	28252	24748
	Tikamgarh	2	1	--	--	72	9	81	53	28	--	--	--	20699	13379

TOTAL : MADHYA PRADESH		4	2	--	--	187	20	207	155	52	--	--	--	48951	38126
------------------------	--	---	---	----	----	-----	----	-----	-----	----	----	----	----	-------	-------

ORISSA	Keonjhar	1	1	--	--	25	11	36	29	7	--	--	--	11787	177
RAJASTHAN	Bhilwara	12	3	--	--	466	51	517	517	--	--	--	--	300780	126787
	Dungarpur	3	2	--	--	287	85	372	236	136	--	--	--	22741	10276
	Sawai Madhopur	1	--	--	--	40	--	40	40	--	--	--	--	114480	3990
	Udaipur	20	12	3	269	737	241	1247	1140	107	--	57	22	366671	578915
	Rajsamand	5	2	1	11	74	67	152	134	18	--	--	--	20783	14644
	Dausa	1	--	--	--	23	1	24	22	2	--	--	--	1690	338
	Karauli	1	--	--	--	30	--	30	30	--	--	--	--	3510	862
	Pratapgarh	4	2	--	--	338	101	439	421	18	--	--	--	282115	477556
TOTAL : RAJASTHAN		47	21	4	280	1995	546	2821	2540	281	--	57	22	1112770 63433 (PR)	1213368 39568

UTTARANCHAL	Almora	1	--	--	--	40	5	45	45	--	--	--	--	517	256
	Bageshwar	32	--	--	--	1213	140	1353	1303	50	--	114	10	3138003 12700 (PR)	1658086 7620
TOTAL : UTTARANCHAL		33	--	--	--	1253	145	1398	1348	50	--	114	10	3138520 12700 (PR)	1658342 7620

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES				A V E R A G E				D A I L Y E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M I L E	C O N T R A C T L A B O U R				
		B/G	O/C	A/G											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
TOTAL : STEATITE		94	30	7	307	3598	815	4720	4272	448	--	171	32	4387386 76133 (PR)	2929101 47188
35. STONE															
ANDHRA PRADESH															
Chittoor		2	2	--	--	69	5	74	74	--	--	--	--	88223 323944 (PR)	20221 26309
Guntur		4	4	--	--	26	3	29	29	--	--	--	--	88922	16922
Mahboob Nagar		1	1	--	--	13	--	13	13	--	--	--	--	14908	4273
Nalgonda		1	--	--	--	9	--	9	9	--	--	--	--	3540	30
Nellore		4	2	--	--	87	3	90	86	4	--	--	--	119729	161320
Prakasham		1	--	--	--	21	--	21	21	--	--	--	--	441440	12020
Ranga Reddy		1	1	--	--	73	--	73	73	--	--	--	--	125625	31587
TOTAL : ANDHRA PRADESH		14	10	--	--	298	11	309	305	4	--	--	--	882387 323944 (PR)	246372 26309
BIHAR															
Gaya		1	1	--	--	13	8	21	21	--	--	--	--	14242	570
Nawada		3	3	--	--	57	24	81	81	--	--	--	--	3074740	956404
TOTAL : BIHAR		4	4	--	--	70	32	102	102	--	--	--	--	3088982	956974
GOA															
North Goa		4	4	--	--	56	51	107	107	--	--	13	12	319821	214733
South Goa		3	--	--	--	161	8	169	160	9	--	86	--	260700	41229
TOTAL : GOA		7	4	--	--	217	59	276	267	9	--	99	12	580521	255963
GUJARAT															
Kheda		1	1	--	--	28	29	57	57	--	--	--	--	101719	10172
Panchmahal		1	1	--	--	20	78	98	96	2	--	--	--	55788	7197
Sabar Kantha		1	1	--	--	23	--	23	23	--	--	--	--	34125	1194
Valsad		1	--	--	--	27	23	50	34	16	--	--	--	115100	17295
TOTAL : GUJARAT		4	3	--	--	98	130	228	210	18	--	--	--	306732	35858
HARYANA															
Ambala		1	--	--	--	10	2	12	12	--	--	--	--	30023	2376
Faridabad		5	3	--	--	586	55	641	641	--	--	84	--	6397351 6639167 (PR)	448217 464322
Gurgaon		15	5	--	--	1461	135	1596	1596	--	--	1027	15	4723247	351964
Mewat		2	2	--	--	50	16	66	66	--	--	--	--	69774	4884
TOTAL : HARYANA		23	10	--	--	2107	208	2315	2315	--	--	1111	15	11220395 6639167 (PR)	807441 464322
JHARKHAND															
Koderma		7	3	--	--	45	9	54	54	--	--	--	--	659856	57341
Deoghar		1	1	--	--	13	9	22	22	--	--	--	--	5260	489
Dhanbad		16	2	--	--	78	20	98	98	--	--	--	--	129950	8408
Sahebganj		31	25	--	--	402	434	836	721	115	--	135	119	8038351 7442 (PR)	440437 201
Garhwa		5	4	--	--	89	1	90	90	--	--	--	--	5488915	301885

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES			AVERAGE DAILY EMPLOYMENT						OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.			
		SUBMITTING RETURNS	USING MECH. POWER	BELLOW- GROUND	BELOW GROUND	OPEN CAST	ABOVE GROUND	TOTAL	MALE	FEMALE	CONTRACT LABOUR				
		B/G	O/C	A/G											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Pakur		57	40	--	--	503	574	1077	1011	66	--	100	108	3856349	189788
JAMTARA		1	1	--	--	14	9	23	23	--	--	--	--	13560	877
TOTAL : JHARKHAND		118	76	--	--	1144	1056	2200	2019	181	--	235	227	18192241	999225
														7442 (PR)	201
KARNATAKA															
Bangalore		1	--	--	--	10	--	10	10	--	--	--	--	70900	23335
Belgaum		1	1	--	--	17	2	19	18	1	--	--	--	78	25
Bellary		1	1	--	--	22	--	22	22	--	--	--	--	56188	18493
Udipi		1	1	--	--	21	3	24	24	--	--	21	3	125703	37610
TOTAL : KARNATAKA		4	3	--	--	70	5	75	74	1	--	21	3	252869	79463
KERALA															
Kottayam		4	4	--	--	52	6	58	58	--	--	17	--	975265	513134
Pathanamthitta		4	4	--	--	53	11	64	64	--	--	--	--	160392	47983
Trichur		1	1	--	--	27	9	36	27	9	--	--	--	Nil	Nil
Trivundrum		3	3	--	--	105	6	111	111	--	--	--	--	Nil	Nil
Palakkad		Employment with Granite												90000	51233
Thiruvananthapuram		1	1	--	--	44	--	44	44	--	--	--	--	148228	2236
TOTAL : KERALA		15	15	--	--	296	34	330	321	9	--	17	--	1373885	614585
MAHARASHTRA															
Mumbai		2	1	--	--	61	8	69	69	--	--	--	--	170868	12380
Nagpur		1	1	--	--	21	35	56	45	11	--	19	33	16578	1409
Pune		2	2	1	11	16	--	27	27	--	--	--	--	95997	15477
Ratnagiri		1	1	--	--	94	29	123	123	--	--	--	--	Nil	Nil
Thane		4	4	--	--	53	9	62	59	3	--	--	--	133505	20614
Raigad		2	2	--	--	71	9	80	80	--	--	--	--	130266	70456
TOTAL : MAHARASHTRA		12	11	1	11	316	90	417	403	14	--	19	33	547214	120336
ORISSA															
Baleshwar		1	1	--	--	10	5	15	15	--	--	--	--	24106	10788
Ganjam		1	1	--	--	10	2	12	12	--	--	--	--	1977	11863
Sundergarh		1	1	--	--	27	--	27	27	--	--	--	--	116946 (PR)	39096
TOTAL : ORISSA		3	3	--	--	47	7	54	54	--	--	--	--	26083	22651
														116946 (PR)	39096
RAJASTHAN															
Alwar		1	1	--	--	20	1	21	16	5	--	--	--	50500	12120
Jaipur		1	1	--	--	60	75	135	135	--	--	--	--	Nil	Nil
Kota		Employment with Granite and Limestone												5420852	590400
Sikar		1	--	--	--	14	6	20	20	--	--	--	--	187830	48462
Dausa		1	1	--	--	41	19	60	60	--	--	36	--	64689	5499
TOTAL : RAJASTHAN		6	4	--	--	262	111	373	367	6	--	36	--	5723871	656481
TELANGANA															
Mahboob Nagar		2	2	--	--	40	2	42	42	--	--	--	--	29230	7948
Nalgonda		1	--	--	--	18	2	20	20	--	--	--	--	3000	230

STATEMENT NO. 1.2 (CONT..)

SL. NO.	MINERAL / STATE / DISTRICT	NUMBER OF MINES				A V E R A G E				D A I L Y				E M P L O Y M E N T				OUTPUT* IN TONNES UNLESS OTHERWISE STATED	VALUE IN '000 Rs.	
		SUBMITTING RETURNS	USING MECH. POWER	B E L O W - G R O U N D	B E L O W G R O U N D	O P E N C A S T	A B O V E G R O U N D	T O T A L	M A L E	F A M E L E	C O N T R A C T			L A B O U R						
		B/G	O/C	A/G																
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16					
	TOTAL : TELANGANA	3	2	--	--	58	4	62	62	--	--	--	--	32230	8177					
	TAMIL NADU																			
	Chengalpattu(Anna)	2	1	--	--	228	28	256	168	88	--	6	22	55280	2073					
	Coimbatore	1	1	--	--	15	3	18	18	--	--	--	--	241316	36197					
	Salem	Employment with Granite and Limestone													226137	20126				
	Chidambarnar	1	--	--	--	19	--	19	19	--	--	--	--	58400	5840					
	Kancheepuram	6	3	--	--	150	19	169	169	--	--	--	--	1223005	53631					
	Thoothukkudi	2	1	--	--	56	47	103	103	--	--	--	--	181103	8305					
	TOTAL : TAMIL NADU	12	6	--	--	468	97	565	477	88	--	6	22	1985241	126173					
	UTTAR PRADESH																			
	Sonebhadra	Employment with Granite Limestone and Dolomite													17250	1655				
	WEST BENGAL																			
	Pakur	1	--	--	--	4	2	6	6	--	--	--	--	144200	6296					
	Birbhum	44	35	3	39	574	395	1008	1002	6	--	72	99	33163210	1398400					
	Burdwan	2	1	--	--	23	27	50	37	13	--	--	--	190196	20838					
	TOTAL : WEST BENGAL	47	36	3	39	601	424	1064	1045	19	--	72	99	33497606	1425534					
	TOTAL : STONE	273	187	4	50	6058	2268	8376	8027	349	--	1616	411	77727507	6356888					
														7087499 (PR)	529928					
36. VERMICULITE																				
	ANDHRA PRADESH																			
	Nellore	3	--	--	--	28	14	42	28	14	--	--	--	9653	999					
	TAMIL NADU																			
	North Arcot	1	--	--	--	17	10	27	24	3	--	15	6	1102	2388					
	TOTAL : VERMICULITE	4	--	--	--	45	24	69	52	17	--	15	6	10755	3387					
37. WOLLASTONITE																				
	RAJASTHAN																			
	Sirohi	2	2	--	--	270	106	376	321	55	--	--	--	165741	231744					
	Udaipur	1	1	--	--	216	91	307	248	59	--	18	--	138225	109604					
	TOTAL : RAJASTHAN	3	3	--	--	486	197	683	569	114	--	18	--	303966	341349					
	TOTAL : WOLLASTONITE	3	3	--	--	486	197	683	569	114	--	18	--	303966	341349					
	TOTAL : METALLIFEROUS	2398	1619	87	13548	116204	64633	194385	180181	14204	3491	27329	15654	--	629814348					

* Output of all minerals are shown in tonnes except corundum, diamond, emerald, mica and garnet. Diamond and emerald are in carats and grams respectively. Corundum, mica and garnet are in kilograms.

PR : Processed, FN : Fine, AB : Abrasive, PL : Pallets, LM : Lumps, GE : Gems.

STATEMENT NO. 1.3
STATEWISE DISTRIBUTION OF MINES, EMPLOYMENT AND OUTPUT FOR METALLIFEROUS MINES DURING THE YEAR 2015

SL.	STATE/MINERAL	Number of mines submitting returns	AVERAGE DAILY EMPLOYMENT						OUTPUT * in tonnes unless otherwise stated	VALUE in '000 Rs.		
			Below-ground		Opencast		Aboveground					
			Men	Women	Men	Women	Men	Women				
1	2	3	4	5	6	7	8	9	10	11		
	ANDAMAN & NICOBAR ISLAND											
1.	Limestone	2	--	134	--	17	--	151	Nil	Nil		
TOTAL :	ANDAMAN & NICOBAR IS	2	--	134	--	17	--	151	--	Nil		
	ANDHRA PRADESH											
1.	Apatite & Rock Phospha	1	27	--	--	5	7	39	3765	7831		
2.	Barytes	4	9	392	1	248	152	802	1387	499		
									2198211 (LM)	8100722		
									12295 (PR)	11642		
3.	China Clay,clay,white-	7	--	117	32	5	--	154	113297	14163		
									36910 (PR)	34		
4.	Dolomite	5	--	236	--	4	--	240	1045995	141395		
									5900 (FN)	1180		
									24388 (LM)	10975		
5.	Felspar	5	24	84	17	10	5	140	696906	100930		
									38312 (PR)	66707		
6.	Fire-clay	1	--	20	--	--	--	20	9000	960		
7.	Galena & Sphalarite	1	10	--	--	30	--	40	1079	811		
8.	Garnet	2	--	28	10	38	--	76	186357	366289		
9.	Gold	1	--	2	--	--	--	2	Nil	Nil		
10.	Granite	110	--	4899	1	1686	47	6633	1218928	17191400		
									13444 (PR)	160054		
11.	Gypsum	1	--	2	--	--	--	2	Nil	Nil		
12.	Iron	12	--	206	--	33	--	239	2913006	2873767		
									236745 (FN)	77782		
									72922 (LM)	13126		
13.	Laterite	13	--	249	--	14	--	263	3595891	28271		
14.	Limestone	49	--	1353	5	724	9	2091	64360634	39658261		
15.	Manganese	30	--	679	486	85	8	1258	397668	596365		
									2529 (PR)	12643		
16.	Marble		Employment with Limestone Mica and Sandstone						1	1		
17.	Mica	23	227	91	1	50	60	429	2581700	44490		
18.	Quartz	6	--	73	39	5	27	144	52265	17204		
									945 (PR)	280		
19.	Silica	3	--	24	32	--	--	56	103495	5430		
20.	Sillimanite	1	--	130	--	337	28	495	61088	481775		
21.	Stearite	7	27	87	--	20	19	153	75358	19087		
22.	Stone	14	--	294	4	11	--	309	882387	246372		
									323944 (PR)	26309		
23.	Vermiculite	3	--	19	9	9	5	42	9653	999		
TOTAL :	ANDHRA PRADESH	300	324	8987	637	3314	367	13629	--	70277757		
	ASSAM											
1.	Limestone	4	--	95	--	20	--	115	943083	320834		
TOTAL :	ASSAM	4	--	95	--	20	--	115	--	320834		

STATEMENT NO. 1.3 (CONT..)

SL.	STATE/MINERAL	Number of mines submitting returns	A V E R A G E D A I L Y E M P L O Y M E N T						OUTPUT * in tonnes unless otherwise stated	VALUE in '000 Rs.		
			Below- ground	Opencast		Aboveground		Total				
				Men	Women	Men	Women					
1	2	3	4	5	6	7	8	9	10	11		
<hr/>												
BIHAR												
1.	Limestone	3	--	170	3	52	1	226	950924	346455		
2.	Mica	4	36	33	--	16	--	85	2565057	18822		
3.	Quartz	2	--	31	--	7	--	38	57648	18907		
4.	Stone	4	--	70	--	32	--	102	3088982	956974		
TOTAL : BIHAR		13	36	304	3	107	1	451	--	1341157		
<hr/>												
CHHATTISGARH												
1.	Bauxite	14	--	1854	16	125	--	1995	2410887	1794837		
									130381 (PR)	15902		
2.	Dolomite	14	37	749	136	546	3	1471	3903207	1423198		
3.	Iron	16	--	3945	6	3296	25	7272	8199380	5819441		
									16931794 (FN)	43130785		
									8137482 (LM)	24951835		
									3512639 (PR)	2401205		
4.	Limestone	25	--	1223	--	578	6	1807	42899378	45694868		
5.	Quartz	3	--	147	9	10	1	167	36935	5885		
TOTAL : CHHATTISGARH		72	37	7918	167	4555	35	12712	--	125237956		
<hr/>												
GOA												
1.	Granite	2	--	61	--	15	--	76	210777	42848		
2.	Iron	82	--	2591	11	2068	41	4711	11081667	1747664		
									2164418 (FN)	380342		
									518853 (LM)	364955		
									216498 (PR)	245560		
3.	Manganese	11	--	231	104	32	11	378	1843208	1837415		
									35267 (PR)	60072		
4.	Stone	7	--	208	9	59	--	276	580521	255963		
TOTAL : GOA		102	--	3091	124	2174	52	5441	--	4934818		
<hr/>												
GUJARAT												
1.	Bauxite	26	--	378	64	25	--	467	1575843	701244		
									169617 (PR)	52101		
2.	China Clay,clay,white-	31	--	388	--	61	2	451	595252	140143		
									12904 (PR)	13290		
3.	Fire-clay	2	--	36	--	--	--	36	7550	755		
4.	Fluorite	1	--	23	--	3	--	26	Nil	Nil		
5.	Laterite	2	--	17	--	--	--	17	168911	16485		
6.	Limestone	55	--	2308	233	306	--	2847	33785930	5048443		
									27450 (PR)	1799		
7.	Manganese	3	--	24	--	31	--	55	Nil	Nil		
8.	Marble	4	--	273	--	58	--	331	1822767	1068542		
9.	Ochre	1	--	16	--	--	--	16	592	59		

STATEMENT NO. 1.3 (CONT..)

SL.	STATE/MINERAL	Number of mines submitting returns	A V E R A G E D A I L Y E M P L O Y M E N T						OUTPUT * in tonnes unless otherwise stated	VALUE in '000 Rs.		
			Below- ground	Opencast		Aboveground		Total				
				Men	Women	Men	Women					
1	2	3	4	5	6	7	8	9	10	11		
10.	Silica	1	--	12	--	--	--	12	383710	76685		
11.	Stone	4	--	88	10	122	8	228	306732	35858		
TOTAL : GUJARAT		130	--	3563	307	606	10	4486	--	7155404		
HIMACHAL PRADESH												
1.	Barytes	1	16	--	--	--	--	16	588	882		
2.	Limestone	32	--	1015	12	144	3	1174	15193321	2449890		
TOTAL : HIMACHAL PRADESH		33	16	1015	12	144	3	1190	--	2450771		
HARYANA												
1.	China Clay,clay,white-	2	--	50	--	16	--	66	86592	4661		
2.	Limestone	1	--	14	--	2	--	16	2760	373		
3.	Sandstone	1	--	16	--	--	--	16	226986	8371		
4.	Silica	15	--	1502	--	409	--	1911	9706425	1697059		
									347116 (PR)	49533		
5.	Slate	2	--	162	--	7	--	169	48986	51666		
6.	Stone	23	--	2107	--	208	--	2315	11220395	807441		
									6639167 (PR)	464322		
TOTAL : HARYANA		44	--	3851	--	642	--	4493	--	3083426		
JHARKHAND												
1.	Bauxite	33	1	2657	--	337	4	2999	3225725	1593640		
2.	China Clay,clay,white-	6	--	97	44	336	71	548	117287	23806		
									61821 (PR)	13883		
3.	Copper	3	840	--	--	242	1	1083	308850	338039		
4.	Dolomite	1	--	142	--	33	--	175	190570	178925		
5.	Gold	1	36	--	--	16	--	52	5052	22367		
6.	Graphite	4	--	85	1	4	--	90	6160	737		
7.	Iron	26	--	2274	155	5126	218	7773	6778341	5324423		
									8429146 (FN)	4237538		
									2922074 (LM)	1550393		
									7899183 (PR)	7895250		
8.	Kyanite	1	--	9	--	--	--	9	Nil	Nil		
9.	Limestone	21	--	585	78	605	19	1287	1208786	200250		
									38767 (PR)	6059		
10.	Magnesite	1	--	28	19	10	--	57	18551	12986		
11.	Manganese	3	--	67	--	64	9	140	192511	51142		
12.	Mica	4	15	--	--	20	--	35	19354	71		
13.	Quartz	3	25	49	--	12	1	87	11218	31158		
14.	Sandstone	2	--	25	1	7	1	34	11254	2251		
15.	Steatite	1	--	22	--	1	--	23	Nil	Nil		
16.	Stone	118	--	1141	3	878	178	2200	18192241	999225		
									7442 (PR)	201		
TOTAL : JHARKHAND		228	917	7181	301	7691	502	16592	--	22482342		

STATEMENT NO. 1.3 (CONT..)

SL.	STATE/MINERAL	Number of mines submitting returns	A V E R A G E D A I L Y E M P L O Y M E N T						OUTPUT * in tonnes unless otherwise stated	VALUE in '000 Rs.		
			Below- ground	Opencast		Aboveground		Total				
				Men	Women	Men	Women					
1	2	3	4	5	6	7	8	9	10	11		
<hr/>												
JAMMU & KASHMIR												
1.	Gypsum	3	--	95	--	18	--	113	65816	29501		
2.	Limestone	1	--	33	--	7	--	40	Nil	Nil		
TOTAL : JAMMU & KASHMIR		4	--	128	--	25	--	153	--	29501		
<hr/>												
KARNATAKA												
1.	Bauxite	2	--	23	--	10	--	33	Nil	Nil		
									57550 (PR)	25898		
2.	China Clay,clay,white-	3	--	22	9	29	--	60	18110	12644		
									25860 (PR)	7229		
3.	Chromite	4	66	41	13	100	27	247	4704	15053		
4.	Dolomite	6	--	60	20	14	--	94	203925	83573		
5.	Felspar	3	--	2	10	2	7	21	265	56		
6.	Gold	4	1690	203	2	1420	197	3512	13416	73871		
									1 (FN)	3410537		
7.	Granite	30	--	1304	18	224	4	1550	102402	2092775		
									370694 (PR)	3004672		
8.	Iron	104	--	5765	47	1394	32	7238	12854768	6656008		
									9624347 (FN)	11369125		
									2767694 (LM)	4325504		
									5797955 (PR)	8762479		
9.	Laterite	2	--	117	--	7	--	124	30000	2928		
									105550 (PR)	20051		
10.	Limestone	53	--	1506	33	294	9	1842	33020576	6728639		
									303891 (PR)	34959		
11.	Magnesite	4	--	87	19	50	33	189	16256	22338		
									77028 (PR)	21752		
12.	Manganese	18	--	978	39	858	117	1992	472777	566972		
									27600 (FN)	55495		
									20195 (LM)	28711		
									161314 (PR)	411489		
13.	Silica	7	--	13	9	6	--	28	41000	18245		
14.	Stone	4	--	69	1	5	--	75	252869	79463		
TOTAL : KARNATAKA		245	1756	10213	220	4413	426	17028	--	47830464		
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KERALA												
1.	China Clay,clay,white-	10	--	80	51	205	115	451	440007	70372		
2.	Granite	31	12	513	37	84	4	650	3669427	5989321		
									394634 (PR)	2587423		
3.	Laterite	1	--	7	3	2	--	12	25300	5435		
4.	Limestone	2	--	121	--	133	--	254	14190	12615		
									598661 (PR)	59866		
5.	Sillimanite	1	--	13	--	337	29	379	139258	358145		
6.	Stone	15	--	293	3	28	6	330	1373885	614585		

STATEMENT NO. 1.3 (CONT..)

SL.	STATE/MINERAL	Number of mines submitting returns	A V E R A G E D A I L Y E M P L O Y M E N T						OUTPUT * in tonnes unless otherwise stated	VALUE in '000 Rs.		
			Below- ground	Opencast		Aboveground		Total				
				Men	Women	Men	Women					
1	2	3	4	5	6	7	8	9	10	11		
	TOTAL : KERALA	60	12	1027	94	789	154	2076	--	9697763		
MEGHALAYA												
	1. Limestone	11	--	361	--	95	13	469	3556883	2529838		
	TOTAL : MEGHALAYA	11	--	361	--	95	13	469	--	2529838		
MADHYA PRADESH												
	1. Apatite & Rock Phospha	3	--	124	59	14	--	197	82891	77955		
	2. Bauxite	15	--	414	94	45	--	553	505622	220901		
	3. China Clay,clay,white-		Employment with Iron						1330	490		
	4. Copper	1	--	166	--	105	--	271	2510136	1734127		
	5. Diamond	1	--	27	--	75	--	102	33488	62005439		
	6. Dolomite	5	--	165	187	12	--	364	20937	13574		
	7. Fire-clay	3	--	42	16	4	--	62	35318	2029		
	8. Granite	1	--	185	--	20	--	205	Nil	Nil		
	9. Iron	11	--	178	--	515	71	764	1044651	716747		
									1019073 (FN)	759336		
									23495 (LM)	14312		
	10. Laterite	1	--	17	23	1	--	41	104046	5873		
	11. Limestone	71	--	3628	118	1064	37	4847	76458458	17008259		
									2712996 (PR)	135293		
	12. Manganese	34	3047	1449	275	1027	602	6400	1191105	3438260		
									126717 (PR)	518032		
	13. Marble	3	--	62	--	29	--	91	24856	7203		
	14. Ochre	1	14	--	--	5	--	19	970	78		
	15. Quartz		Employment with Iron		Limestone and Manganese				40	17		
	16. Steatite	4	--	139	48	16	4	207	48951	38126		
	TOTAL : MADHYA PRADESH	155	3061	6602	820	2932	714	14129	--	86696049		
MAHARASHTRA												
	1. Bauxite	20	--	429	33	56	3	521	2845481	2342186		
									383270 (PR)	72075		
	2. Dolomite	4	--	43	14	24	1	82	108956	28722		
									20413 (PR)	5818		
	3. Fluorite	1	--	32	6	7	--	45	Nil	Nil		
	4. Iron	15	--	740	3	88	--	831	773557	645561		
									39351 (FN)	37689		
									738172 (LM)	1582125		
	5. Kyanite	3	--	38	--	2	--	40	8663	2094		
	6. Laterite	1	--	23	--	--	--	23	Nil	Nil		
	7. Limestone	13	--	633	48	185	6	872	13473695	3522171		
									176778 (PR)	43364		
	8. Manganese	18	2077	1818	979	2090	387	7351	1541472	6310267		
									290365 (PR)	1026372		
	9. Ochre		Employment with Limestone		Sillimanite and Iron				2013	493		

STATEMENT NO. 1.3 (CONT..)

SL.	STATE/MINERAL	Number of mines submitting returns	A V E R A G E D A I L Y E M P L O Y M E N T						OUTPUT * in tonnes unless otherwise stated	VALUE in '000 Rs.		
			Below- ground	Open-cast		Above-ground		Total				
				Men	Women	Men	Women					
1	2	3	4	5	6	7	8	9	10	11		
10.	Silica	10	--	133	56	212	1	402	386899 112892 (PR)	96708 63363		
11.	Sillimanite	4	--	278	13	30	4	325	5614 48386 (PR)	1677 358072		
12.	Stone	12	11	313	3	79	11	417	547214	120336		
TOTAL : MAHARASHTRA		101	2088	4480	1155	2773	413	10909	--	16466698		
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ORISSA												
1.	Bauxite	5	--	420	1	492	14	927	7073278	3719883		
2.	China Clay, clay, white-	1	--	18	25	9	7	59	7341 (PR)	2872		
3.	Chromite	25	540	3918	135	5701	421	10715	1802636 246471 (FN) 115911 (LM) 825625 (PR)	8643095 289742 620516 3638935		
4.	Dolomite	3	--	143	--	315	13	471	113323 222793 (PR)	43913 156503		
5.	Fire-clay	7	--	134	--	16	--	150	24919	6023		
6.	Granite	2	--	59	--	4	--	63	6002 427 (PR)	31361 3506		
7.	Graphite	10	--	112	100	13	--	225	24353	13387		
8.	Iron	103	--	10395	1525	9600	780	22300	63786621 13611316 (FN) 13006392 (LM) 14776991 (PR)	52594015 21132168 18077449 9771343		
9.	Limestone	17	--	1996	345	1041	88	3470	13077667	1918859		
10.	Manganese	35	--	1718	918	2150	250	5036	566453 66 (LM) 410698 (PR)	1205361 16 282278		
11.	Quartz	6	--	186	25	12	--	223	31502 1454 (PR)	25699 144		
12.	Sillimanite	1	--	114	--	791	66	971	225173 (PR)	245104		
13.	Steatite	1	--	18	7	11	--	36	11787	177		
14.	Stone	3	--	47	--	7	--	54	26083 116946 (PR)	22651 39096		
TOTAL : ORISSA		219	540	19278	3081	20162	1639	44700	--	122484095		
<hr/>												
RAJASTHAN												
1.	Apatite & Rock Phospha	4	--	560	--	307	15	882	113832 160509 (PR)	150698 128407		
2.	Barytes	1	--	11	--	6	--	17	5820	2619		
3.	Calcite	2	--	251	83	118	4	456	189552	136556		
4.	China Clay, clay, white-	21	--	248	8	75	1	332	843493	393244		
5.	Copper	2	894	--	--	276	8	1178	1028661	2042888		
6.	Dolomite	Employment with Wollastonite Fire-clay and Steatite							304700	800184		
7.	Fire-clay	6	--	110	12	4	--	126	184977	17763		
8.	Galena & Sphalarite	14	3455	--	--	1528	68	5051	12019934 49384 (PR)	18684058 74081		

STATEMENT NO. 1.3 (CONT..)

SL.	STATE/MINERAL	Number of mines submitting returns	A V E R A G E D A I L Y E M P L O Y M E N T						OUTPUT * in tonnes unless otherwise stated	VALUE in '000 Rs.		
			Below- ground	Opencast		Aboveground		Total				
				Men	Women	Men	Women					
1	2	3	4	5	6	7	8	9	10	11		
Employment with Wollastonite Fire-clay and Steatite												
9. Granite									800	132		
10. Gypsum	36	--	175	--	69	--	244	2839331	1800559			
11. Iron	3	--	584	--	350	--	934	4804071	1150			
								47620 (LM)	36005			
								181932 (PR)	185365			
12. Laterite	1	--	112	--	21	--	133	1720177	276782			
13. Limestone	109	--	8216	616	1254	54	10140	382616696	40779691			
								2529293 (FN)	1214061			
								48461 (PR)	3595			
14. Manganese								16700	37975			
15. Marble	15	--	1094	--	299	--	1393	1741962	2170819			
16. Ochre								930	228			
17. Quartz	3	--	76	1	17	--	94	12333	2457			
								186627 (PR)	349067			
18. Sandstone	2	--	189	--	31	--	220	68032	123300			
19. Selenite	3	--	12	--	7	2	21	2105	4210			
20. Silica	6	--	148	15	198	128	489	67226	16855			
								195476 (PR)	77772			
21. Steatite	47	280	1834	161	426	120	2821	1112770	1213368			
								63433 (PR)	39568			
22. Stone	6	--	257	5	110	1	373	5723871	656481			
23. Wollastonite	3	--	396	90	173	24	683	303966	341349			
TOTAL : RAJASTHAN		284	4629	14273	991	5269	425	25587	--	71761285		

TELANGANA

1. Barytes	1	--	29	--	3	--	32	5325	2130	
2. Dolomite	1	--	54	--	87	4	145	416644 (PR)	837100	
3. Felspar	2	--	41	--	3	--	44	25320	6380	
4. Granite	9	--	375	1	34	--	410	65467	470927	
								8511 (PR)	14344	
5. Limestone	39	--	2009	4	1421	--	3434	36846591	12816023	
6. Quartz	7	--	157	7	11	--	175	225759	64382	
7. Stone	3	--	58	--	4	--	62	32230	8177	
TOTAL : TELANGANA		62	--	2723	12	1563	4	4302	--	14219464

TAMIL NADU

1. Bauxite	2	--	21	--	12	--	33	211443	55071
2. Fire-clay	3	--	47	17	--	11	75	29962	10770
3. Garnet	5	--	1080	22	20	--	1122	702102	649722
4. Granite	110	19	3230	27	450	5	3731	281719	3294907
								2809 (PR)	14398
5. Graphite	1	--	37	--	3	--	40	68834	38554
6. Limestone	62	--	1942	44	286	--	2272	25402645	11141635
7. Magnesite	10	--	1008	935	26	4	1973	516815	935263
8. Quartz	6	--	84	146	2	--	232	8926	6302
								4343 (PR)	9996
9. Silica	1	--	3	32	3	--	38	6880	2486

STATEMENT NO. 1.3 (CONT..)

SL.	STATE/MINERAL	Number of mines submitting returns	A V E R A G E D A I L Y E M P L O Y M E N T						OUTPUT * in tonnes unless otherwise stated	VALUE in '000 Rs.		
			Below- ground	Opencast		Aboveground		Total				
				Men	Women	Men	Women					
1	2	3	4	5	6	7	8	9	10	11		
10.	Sillimanite	2	--	1078	--	253	14	1345	138775	43714		
11.	Stone	12	--	382	86	95	2	565	1985241	126173		
12.	Vermiculite	1	--	15	2	9	1	27	1102	2388		
TOTAL : TAMIL NADU		215	19	8927	1311	1159	37	11453	--	16331380		
UTTARANCHAL												
1.	Apatite & Rock Phospha	3	67	--	--	229	--	296	Nil	Nil		
2.	Gold	1	7	--	--	15	--	22	Nil	Nil		
3.	Limestone	2	--	31	--	33	--	64	80480	7777		
4.	Magnesite	1	--	109	--	56	--	165	36219	51806		
5.	Steatite	33	--	1203	50	145	--	1398	3138520	1658342		
									12700 (PR)	7620		
TOTAL : UTTARANCHAL		40	74	1343	50	478	--	1945	--	1725545		
UTTAR PRADESH												
1.	Bauxite	4	--	170	49	19	--	238	3664	6468		
									16597 (PR)	4171		
2.	Granite	3	--	108	--	106	--	214	12048	223240		
3.	Limestone	2	--	113	--	26	--	139	5789108	948320		
4.	Sandstone	1	--	36	--	2	--	38	404715	96753		
5.	Silica	1	--	--	--	2	--	2	Nil	Nil		
6.	Stone			Employment with Steatite and Dolomite					17250	1655		
TOTAL : UTTAR PRADESH		13	--	489	49	173	39	750	--	1280606		
WEST BENGAL												
1.	Apatite & Rock Phospha	1	--	2	--	70	2	74	Nil	Nil		
2.	China Clay, clay, white-	7	--	172	--	138	14	324	51972	20532		
									18215 (PR)	1730		
3.	Dolomite	1	--	--	--	31	--	31	Nil	Nil		
4.	Felspar	1	--	15	--	2	--	17	26634	9295		
									2708 (LM)	1312		
5.	Fire-clay	1	--	32	--	2	--	34	760	151		
6.	Granite	2	--	22	1	1	--	24	40021	14997		
7.	Quartz	1	--	42	--	14	--	56	12785	3644		
8.	Stone	47	39	601	--	405	19	1064	33497606	1425534		
TOTAL : WEST BENGAL		61	39	886	1	663	35	1624	--	1477195		
TOTAL : METALLIFEROUS												
		2398	13548	106869	9335	59764	4869	194385	--	629814348		

* Output of all minerals are shown in tonnes except corundum, diamond, emerald, mica and garnet. Diamond and emerald are in carats and grams respectively. Corundum, mica and garnet are in kilograms.

PR : Processed, FN : Fine, AB : Abrasive, PL : Pallets, LM : Lumps, GE : Gems.

STATEMENT NO. 1.4
AVERAGE DAILY EMPLOYMENT, OUTPUT AND VALUE IN OIL MINES DURING THE YEAR 2015 : STATE-DISTRICT WISE

STATE/DISTRICT	MINES SUBMITTING CONTRACT RETURNS													A V E R A G E D A I L Y E M P L O Y M E N T				OIL		GAS	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17				
ANDHRA PRADESH																					
East Godavari	8	716	1830	1830	--	252	64	40	308	99	6	1061	1500005	36931231	2369555	12279936					
ARUNACHAL PRADESH																					
Changlang	1	163	225	222	3	14	--	19	15	--	--	177	59376	1318835	19395	11597					
ASSAM																					
Dibrugarh	5	1949	4196	4172	24	60	73	869	2008	--	--	1186	--	--	5004037	41544682					
Jorhat	2	--	187	178	9	15	--	--	21	--	--	151	148509	40480300	43960	800					
Sibsagar	14	672	4841	4837	4	1479	58	605	811	--	60	1828	1170935	19582337	1378246	3687499					
Cachar	1	--	73	73	--	50	--	--	--	--	--	23	--	--	--	--					
TOTAL:ASSAM	22	2621	9297	9260	37	1604	131	1474	2840	--	60	3188	1319444	60062637	6426243	45232981					
BIHAR																					
Kishanganj	1	--	41	41	--	--	--	34	--	--	1	6	--	--	--	--					
GUJARAT																					
Ahmedabad	7	1011	2032	2013	19	615	7	5	245	1	2	1157	1341046	28869850	139682	760570					
Bharuch	3	311	2137	2137	--	541	--	--	1068	--	--	528	723132	15185772	1	11					
Gandhinagar	4	30	64	64	--	14	--	--	32	--	--	18	27748	518378	9555	101210					
Kheda	2	104	108	107	1	13	--	9	30	--	--	56	66476	1419140	272746	870771					
Mehasana	16	591	4368	4348	20	130	165	747	1746	110	104	1366	2141638	41407856	20655	1731294					
Surat	3	91	225	223	2	42	8	--	43	--	6	126	517082	12226540	142465	1286340					
Koira	1	20	95	95	--	7	1	--	87	--	--	--	193085	3951121	8830	53035					
Anand	8	90	314	305	9	73	--	38	147	1	3	52	306460	10306728	17658	283887					
TOTAL:GUJARAT	44	2248	9343	9292	51	1435	181	799	3398	112	115	3303	5316667	113885385	611592	5087118					
HIMACHAL PRADESH																					
Bilaspur	1	24	43	43	--	8	--	24	--	--	--	11	--	--	--	--					
JHARKHAND																					
Dhanbad	1	--	7	7	--	4	--	--	--	--	1	2	--	--	2050	296					
Hazaribagh	1	--	17	17	--	--	1	14	--	--	1	1	--	--	--	--					
Bokaro	6	19	695	695	--	28	2	65	50	7	6	537	--	--	5971	17990					
TOTAL:JHARKHAND	8	19	719	719	--	32	3	79	50	7	8	540	--	--	8021	18286					
MADHYA PRADESH																					
Shahdol	3	41	229	228	1	145	4	1	4	7	10	58	--	--	358947	1431452					
PONDICHERY																					
Karaikal	2	302	596	596	--	4	--	--	250	--	--	342	502928	18055158	2	11					

STATEMENT NO. 1.4
AVERAGE DAILY EMPLOYMENT, OUTPUT AND VALUE IN OIL MINES DURING THE YEAR 2015 : STATE-DISTRICT WISE

STATE/DISTRICT	MINES SUBMI- TTING RETURNS												A V E R A G E D A I L Y E M P L O Y M E N T				OIL	
	CONTRACT	TOTAL	MEN	WOMEN	SUPER- VISORS	CLERKS	DRILL- ING	PRODU- CTION	WORK- SHOP	FIRE- SERVICE	OTHERS	Output Tonnes	Value '000 Rs.	Output '000 CM	Value '000 Rs.	GAS		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
RAJASTHAN																		
Barmer	7	--	3331	3331	--	35	3	20	188	--	6	3079	11866742	239286027	567622	9109633		
Jaisalmer	2	--	55	55	--	18	3	--	12	--	9	13	--	--	30450	94441		
Jodhpur	1	--	2	2	--	--	--	--	--	--	2	--	--	--	--	--		
TOTAL:RAJASTHAN	10	--	3388	3388	--	53	6	20	200	--	15	3094	11866742	239286027	598072	9204074		
TAMIL NADU																		
Thanjavur	1	--	2	--	2	--	--	--	--	--	2	--	--	--	--	--		
Cuddalore	1	42	50	50	--	5	1	17	--	--	27	--	--	--	--	--		
NAGAPATTINAM	1	--	83	83	--	8	2	--	14	--	1	58	3907	171758	73141	512804		
OFFSHORE	1	124	142	136	6	6	16	--	88	--	32	97957	3578977	--	--	--		
TOTAL:TAMIL NADU	4	166	277	269	8	19	19	17	102	--	3	117	101864	3750735	73141	512804		
TRIPURA																		
West Tripura	3	34	305	305	--	87	--	50	106	--	7	55	--	--	2306400	6855203		
WEST BENGAL																		
Birbhum	1	195	298	298	--	7	2	75	9	8	6	191	--	--	863091	4244596		
Burdwan	2	1433	1786	1772	14	145	138	60	275	58	6	1104	--	--	202194	149880		
Midnapore	1	--	44	44	--	1	--	36	--	--	1	6	--	--	--	--		
Nadia	1	34	50	50	--	--	--	15	28	--	1	6	--	--	--	--		
TOTAL:WEST BENGAL	5	1662	2178	2164	14	153	140	186	312	66	14	1307	--	--	1065285	4394476		
TOTAL: OIL	112	7996	28471	28357	114	3806	548	2743	7585	291	239	13259	20667026	473290008	13836653	85027938		

SECTION – II

MACHINERY

Statement 2.1: Trend in heavy earth moving machinery (HEMM) in metalliferous mines

Year	No. of Mines using HEMM	Electrical shovel		Diesel shovel		Dumper		Dozer		Loader		Tractor		Other		Total	
		No.	H.P.	No.	H.P.	No.	H.P.	No.	H.P.	No.	H.P.	No.	H.P.	No.	H.P.	No.	H.P.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
1986	274	161	30,015	358	85,817	1,590	386,148	355	98,059	189	35,340	138	6,339	305	61,166	3,096	702,884
1987	293	165	32,404	418	104,061	1,784	424,519	391	109,539	240	40,593	141	6,623	224	35,805	3,363	753,544
1988	255	164	32,735	364	91,665	1,748	412,219	336	98,218	234	41,577	116	5,331	338	44,592	3,300	726,337
1989	286	88	32,186	455	112,802	2,391	505,373	374	110,229	214	39,605	108	4,850	396	61,873	4,026	866,918
1990	300	80	28,199	474	116,391	2,263	482,969	359	101,662	205	37,793	108	5,447	581	61,319	4,070	833,780
1991	368	92	31,065	553	134,544	2,744	565,143	433	125,304	279	50,619	134	6,018	511	66,383	4,746	979,076
1992	397	99	34,149	566	140,675	3,067	621,173	425	128,986	393	63,343	144	6,512	495	66,059	5,189	1,060,897
1993	438	92	32,336	697	157,735	3,221	655,247	432	134,858	384	59,323	145	6,757	544	64,773	5,515	1,111,029
1994	479	103	32,054	720	167,153	3,416	714,497	428	134,685	424	65,807	166	7,925	579	63,286	5,836	1,185,407
1995	448	97	29,741	753	173,094	2,814	575,745	425	129,651	399	67,842	146	6,525	384	52,052	5,018	1,034,650
1996	457	68	25,456	841	199,241	3,409	721,196	448	137,723	446	73,975	150	8,557	217	31,681	5,579	1,197,829
1997	470	60	14,909	851	195,589	3,704	666,934	505	134,558	411	68,092	153	14,918	373	47,679	6,057	1,142,679
1998	534	44	16,602	939	209,905	4,286	718,731	505	137,138	476	81,167	137	7,853	263	34,778	6,702	1,215,459
1999	539	63	22,242	965	220,785	3,662	721,443	437	130,834	529	84,961	154	8,676	431	37,895	6,203	1,232,870
2000	588	76	21,245	1,057	243,953	4,050	849,609	456	140,070	583	99,652	127	7,280	358	42,487	6,768	1,415,037
2001	542	86	27,727	1,026	238,131	3,696	769,327	449	132,149	538	91,650	127	8,336	592	59,136	6,571	1,337,737
2002	577	95	30,794	1,107	247,275	3,928	780,702	496	132,744	559	89,645	109	6,314	577	63,855	6,871	1,351,329
2003	589	76	18,304	1,246	291,426	4,364	847,385	522	151,572	597	98,502	110	5,638	463	47,820	7,439	1,471,559
2004	613	68	16,810	1,313	301,366	5,174	971,812	573	159,621	670	108,327	108	7,068	517	64,820	8,502	1,644,411
2005	653	52	19,637	1,452	341,936	5,509	1,053,348	599	176,052	752	128,051	153	8,932	241	43,425	8,832	1,784,635
2006	591	58	26,833	1,577	355,012	5,543	956,079	673	180,693	740	129,002	126	9,931	785	113,845	9,426	1,789,531
2007	614	92	22,677	1,626	364,696	4,926	1,019,791	612	179,403	798	148,087	102	6,040	545	94,144	8,701	1,834,838
2008	705	67	14,344	1,885	415,686	6,514	1,238,077	645	170,986	881	143,205	86	4,985	848	122,335	10,926	2,109,638
2009	773	93	25,421	2,164	493,416	7,549	1,579,620	592	182,521	971	165,252	133	6,839	664	101,507	12,166	2,554,576
2010	812	88	20,782	2,258	511,401	8,370	1,684,690	620	186,712	1,079	186,865	109	5,842	622	97,219	13,146	2,693,511
2011	883	71	17,733	2,369	549,562	9,104	1,783,96	627	201,335	1,197	214,198	108	5,644	1,192	227,116	14,668	2,999,234
2012	943	22	7,043	2,617	613,828	9,2461	1,8606,62	745	225,389	1,215	205,196	83	4,788	840	123,629	14,888	3,062,896
2013	956	58	7,305	2,774	637,280	8,763	1,8093,00	746	229,001	1,357	233,049	91	5,681	736	116,441	14,662	3,064,706
2014	906	43	16,997	2,559	589,298	7,789	1,643074	684	201,771	1,260	204,967	92	5,553	792	145,159	13,328	3,064,706
2015	1004	42	12,160	3,000	685,339	8,485	1,784563	666	201,922	1,231	203,192	76	4,897	1,188	343,774	14,668	3,235,847

STATEMENT NO. 2.2
USAGE OF MACHINERY IN ABOVE GROUND IN METALLIFEROUS MINES DURING THE YEAR 2015 : MINERAL-STATEWISE

SL. NO.	MINERAL / STATE	NO. OF MINES USING ELECT.	WINDING		VENTILATION		HAULAGE		PUMPING		MINERAL PLANT	
			POWER	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.
1	2	3	4	5	6	7	8	9	10	11	12	13
1. APATITE & ROCK PHOSPHATE												
	ANDHRA PRADESH	1	--	--	1	20	2	20	4	20	--	--
	RAJASTHAN	2	--	--	--	--	--	--	5	73	--	--
	UTTARANCHAL	2	--	--	2	75	6	250	3	53	4	1400
TOTAL : APATITE & ROCK PHOSPHA		5	--	--	3	95	8	270	12	146	4	1400
2. BARYTES												
	ANDHRA PRADESH	2	--	--	--	--	1	20	14	3525	1	150
3. BAUXITE												
	CHHATTISGARH	3	--	--	2	220	--	--	2	220	--	--
	GUJARAT	3	--	--	--	--	5	405	4	35	--	--
	JHARKHAND	4	--	--	--	--	22	302	8	260	10	166
	KARNATAKA	1	--	--	--	--	--	--	--	--	1	100
	MAHARASHTRA	3	--	--	--	--	--	--	19	90	2	227
	ORISSA	1	--	--	--	--	--	--	26	1445	4	1610
TOTAL : BAUXITE		15	--	--	2	220	27	707	59	2050	17	2103
4. CALCITE												
	RAJASTHAN	2	--	--	--	--	--	--	6	33	26	115
5. CHINA CLAY,CLAY,WHITE-CLAY												
	ANDHRA PRADESH	1	--	--	--	--	--	--	2	12	--	--
	GUJARAT	4	1	2	--	--	--	--	8	103	13	108
	JHARKHAND	6	--	--	--	--	--	--	20	350	52	354
	KERALA	8	--	--	--	--	--	--	14	239	87	1139
	ORISSA	1	--	--	--	--	--	--	2	20	--	--
	RAJASTHAN	3	--	--	--	--	--	--	3	24	--	--
	WEST BENGAL	4	--	--	--	--	--	--	15	128	11	822
TOTAL : CHINA CLAY,CLAY,WHITE-		27	1	2	--	--	--	--	64	876	163	2423
6. CHROMITE												
	KARNATAKA	2	3	151	3	56	3	194	3	94	3	16
	ORISSA	19	7	850	6	275	9	365	151	8376	354	12738
TOTAL : CHROMITE		21	10	1001	9	331	12	559	154	8470	357	12754
7. COPPER												
	JHARKHAND	2	4	1467	3	505	2	80	8	500	7	155
	MADHYA PRADESH	1	--	--	--	--	--	--	4	1800	--	--
	RAJASTHAN	2	2	5700	4	931	3	320	5	150	--	--

STATEMENT NO. 2.2
USAGE OF MACHINERY IN ABOVE GROUND IN METALLIFEROUS MINES DURING THE YEAR 2015 : MINERAL-STATEWISE

SL. NO.	MINERAL / STATE	NO.OF MINES USING ELECT.		WINDING		VENTILATION		HAULAGE		PUMPING		MINERAL PLANT	
		POWER	NO.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13	
TOTAL : COPPER		5	6	7167	7	1436	5	400	17	2450	7	155	
8. DIAMOND	MADHYA PRADESH	1	--	--	--	--	--	--	--	3	268	57	1684
9. DOLOMITE	ANDHRA PRADESH	1	--	--	--	--	--	--	2	20	36	495	
	CHHATTISGARH	12	1	10	--	--	--	--	31	784	58	2601	
	KARNATAKA	2	--	--	--	--	--	--	--	--	--	--	
	MADHYA PRADESH	1	--	--	--	--	--	--	4	76	--	--	
	MAHARASHTRA	3	--	--	--	--	--	--	3	59	7	82	
	ORISSA	2	--	--	--	--	--	--	5	450	15	460	
	TELANGANA	1	--	--	--	--	--	1	100	3	275	--	--
TOTAL : DOLOMITE		22	1	10	--	--	1	100	48	1664	116	3638	
10. FELSPAR	ANDHRA PRADESH	2	--	--	--	--	--	--	4	163	--	--	
11. FLUORITE	GUJARAT	1	--	--	--	--	--	--	--	--	--	--	
12. GALENA & SPHALARITE	ANDHRA PRADESH	1	--	--	--	--	--	--	1	30	--	--	
	RAJASTHAN	14	13	7271	37	7068	--	--	77	4499	853	38453	
TOTAL : GALENA & SPHALARITE		15	13	7271	37	7068	--	--	78	4529	853	38453	
13. GOLD	JHARKHAND	1	--	--	1	10	1	10	1	3	--	--	
	KARNATAKA	4	18	8382	7	1225	--	--	107	2782	2	14740	
TOTAL : GOLD		5	18	8382	8	1235	1	10	108	2785	2	14740	
14. GRANITE	ANDHRA PRADESH	74	3	205	--	--	9	1095	116	2031	59	6164	
	KARNATAKA	9	1	40	1	20	--	--	30	440	6	60	
	KERALA	10	--	--	7	321	6	34	14	69	19	1659	
	ORISSA	1	--	--	--	--	--	--	2	60	--	--	
	TELANGANA	4	--	--	--	--	--	--	11	110	--	--	
	TAMIL NADU	19	--	--	--	--	--	--	25	257	5	75	
	UTTAR PRADESH	3	--	--	--	--	--	--	--	--	--	--	
	WEST BENGAL	1	--	--	--	--	--	--	1	7	--	--	

STATEMENT NO. 2.2
USAGE OF MACHINERY IN ABOVE GROUND IN METALLIFEROUS MINES DURING THE YEAR 2015 : MINERAL-STATEWISE

SL. NO.	MINERAL / STATE	NO.OF MINES USING ELECT.		WINDING		VENTILATION		HAULAGE		PUMPING		MINERAL PLANT	
		POWER	NO.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13	
TOTAL : GRANITE		121	4	245	8	341	15	1129	199	2974	89	7958	
15. GRAPHITE													
JHARKHAND		1	--	--	--	--	--	--	2	10	--	--	
ORISSA		3	--	--	--	--	--	--	5	30	--	--	
TOTAL : GRAPHITE		4	--	--	--	--	--	--	7	40	--	--	
16. GYPSUM													
RAJASTHAN		1	--	--	--	--	--	--	--	--	--	--	
17. IRON													
ANDHRA PRADESH		2	--	--	--	--	--	--	2	165	2	220	
CHHATTISGARH		9	--	--	8	180	--	--	124	21675	399	34318	
GOA		37	2	500	--	--	5	240	132	9748	252	78911	
JHARKHAND		13	--	--	--	--	5	53	178	24993	609	58935	
KARNATAKA		28	--	--	--	--	32	280	28	2349	16	6435	
MADHYA PRADESH		6	--	--	--	--	--	--	5	284	1	160	
MAHARASHTRA		3	--	--	--	--	15	1800	11	1894	--	--	
ORISSA		47	--	--	--	--	20	3095	183	14041	1177	72038	
RAJASTHAN		2	--	--	--	--	--	--	3	205	741	55024	
TOTAL : IRON		147	2	500	8	180	77	5468	666	75354	3197	306041	
18. LATERITE													
KARNATAKA		1	--	--	--	--	--	--	1	5	--	--	
RAJASTHAN		1	--	--	--	--	--	--	3	210	--	--	
TOTAL : LATERITE		2	--	--	--	--	--	--	4	215	--	--	
19. LIMESTONE													
ANDAMAN & NICOBAR IS		1	--	--	--	--	--	--	1	23	--	--	
ANDHRA PRADESH		23	--	--	13	36	13	540	65	2925	42	3132	
BIHAR		2	--	--	--	--	3	450	3	396	2	90	
CHHATTISGARH		18	--	--	--	--	--	--	63	4758	--	--	
GUJARAT		6	--	--	--	--	--	--	1	8	2	1860	
HIMACHAL PRADESH		5	--	--	--	--	1	38	19	1022	6	4738	
JHARKHAND		3	--	--	1	60	1	120	10	415	--	--	
JAMMU & KASHMIR		1	--	--	--	--	--	--	--	--	--	--	
KARNATAKA		12	--	--	--	--	2	40	46	14704	9	9907	
KERALA		2	1	10	1	1	--	--	6	15	21	1672	
MEGHALAYA		2	--	--	--	--	3	370	2	20	--	--	
MADHYA PRADESH		35	--	--	9	33	16	5477	106	7053	65	4445	

STATEMENT NO. 2.2
USAGE OF MACHINERY IN ABOVE GROUND IN METALLIFEROUS MINES DURING THE YEAR 2015 : MINERAL-STATEWISE

SL. NO.	MINERAL / STATE	NO.OF MINES USING ELECT.		WINDING		VENTILATION		HAULAGE		PUMPING		MINERAL PLANT	
		POWER	NO.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13	
	MAHARASHTRA	5	--	--	--	--	--	--	25	1618	4	4634	
	ORISSA	13	--	--	--	--	--	--	46	2110	112	9162	
	RAJASTHAN	63	7	169	3	17	33	899	165	5587	202	21982	
	TELANGANA	28	9	3002	--	--	23	1195	121	5098	1	20	
	TAMIL NADU	48	4	50	1	40	8	1148	121	5586	254	10825	
	TOTAL : LIMESTONE	267	21	3231	28	187	103	10277	800	51338	720	72467	
20.	MAGNESITE												
	KARNATAKA	2	--	--	--	--	--	--	4	81	9	273	
	TAMIL NADU	5	--	--	--	--	--	--	7	155	--	--	
	UTTARANCHAL	1	--	--	--	--	--	--	--	--	--	--	
	TOTAL : MAGNESITE	8	--	--	--	--	--	--	11	236	9	273	
21.	MANGANESE												
	ANDHRA PRADESH	22	--	--	--	--	--	--	54	1042	--	--	
	GOA	4	--	--	--	--	--	--	4	25	2	10	
	JHARKHAND	1	--	--	--	--	--	--	2	3	1	479	
	KARNATAKA	3	--	--	--	--	--	--	23	296	--	--	
	MADHYA PRADESH	25	11	1360	16	790	37	1183	106	5752	115	2012	
	MAHARASHTRA	14	10	1820	15	840	15	580	82	5721	11	960	
	ORISSA	9	--	--	--	--	--	--	24	1215	3	303	
	TOTAL : MANGANESE	78	21	3180	31	1630	52	1763	295	14054	132	3764	
22.	MARBLE												
	GUJARAT	4	--	--	--	--	--	--	50	204	57	2273	
	MADHYA PRADESH	3	--	--	--	--	--	--	14	290	3	700	
	RAJASTHAN	10	--	--	--	--	--	--	147	1181	13	113	
	TOTAL : MARBLE	17	--	--	--	--	--	--	211	1675	73	3086	
23.	MICA												
	ANDHRA PRADESH	21	10	135	22	233	18	242	45	452	12	133	
	BIHAR	1	--	--	1	10	--	--	1	10	--	--	
	JHARKHAND	1	1	10	--	--	--	--	--	--	--	--	
	TOTAL : MICA	23	11	145	23	243	18	242	46	462	12	133	
24.	QUARTZ												
	ANDHRA PRADESH	1	--	--	--	--	--	--	1	10	--	--	
	JHARKHAND	1	--	--	--	1	10	1	10	1	3	--	

STATEMENT NO. 2.2
USAGE OF MACHINERY IN ABOVE GROUND IN METALLIFEROUS MINES DURING THE YEAR 2015 : MINERAL-STATEWISE

SL. NO.	MINERAL / STATE	NO. OF MINES USING ELECT.		WINDING		VENTILATION		HAULAGE		PUMPING		MINERAL PLANT	
		POWER	NO.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13	
	TELANGANA	1	--	--	--	--	--	--	--	1	10	--	--
	WEST BENGAL	1	--	--	--	--	--	--	--	2	10	--	--
TOTAL : QUARTZ		4	--	--	1	10	1	10	5	33	--	--	
25. SANDSTONE	ANDHRA PRADESH	1	--	--	--	--	--	--	121	5850	340	3744	
	JHARKHAND	2	--	--	--	--	--	--	2	42	1	20	
	RAJASTHAN	1	--	--	--	--	--	--	--	--	3	30	
TOTAL : SANDSTONE		4	--	--	--	--	--	--	123	5892	344	3794	
26. SELENITE	RAJASTHAN	2	--	--	--	--	--	--	--	--	--	--	
27. SILICA	HARYANA	4	--	--	--	--	--	--	64	408	4	470	
	MAHARASHTRA	6	--	--	--	--	--	--	2	10	80	1358	
	RAJASTHAN	4	--	--	--	--	--	--	13	145	14	1045	
	UTTAR PRADESH	1	--	--	--	--	--	--	3	101	--	--	
TOTAL : SILICA		15	--	--	--	--	--	--	82	664	98	2873	
28. SILLIMANITE	ANDHRA PRADESH	1	--	--	--	--	--	--	100	3310	260	3172	
	KERALA	1	--	--	--	--	--	--	65	100	360	4000	
	MAHARASHTRA	2	--	--	--	--	--	--	1	5	277	1617	
TOTAL : SILLIMANITE		4	--	--	--	--	--	--	166	3415	897	8789	
29. STEATITE	ANDHRA PRADESH	3	--	--	1	10	1	5	3	38	--	--	
	JHARKHAND	1	--	--	--	--	--	--	1	40	--	--	
	ORISSA	1	--	--	--	--	--	--	2	3	--	--	
	RAJASTHAN	17	--	--	1	10	7	105	32	1391	6	524	
TOTAL : STEATITE		22	--	--	2	20	8	110	38	1472	6	524	
30. STONE	ANDHRA PRADESH	4	--	--	--	--	--	--	19	480	12	489	
	BIHAR	3	--	--	--	--	--	--	13	255	21	177	
	GOA	4	--	--	--	--	--	2	144	5	32	--	
	GUJARAT	3	--	--	--	--	--	1	8	6	155	19	
												327	

STATEMENT NO. 2.2
USAGE OF MACHINERY IN ABOVE GROUND IN METALLIFEROUS MINES DURING THE YEAR 2015 : MINERAL-STATEWISE

SL. NO.	MINERAL / STATE	NO. OF MINES USING ELECT.		WINDING		VENTILATION		HAULAGE		PUMPING		MINERAL PLANT		
		POWER	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13		
	HARYANA	1	--	--	--	--	--	--	--	--	--	--	--	--
	JHARKHAND	41	1	40	1	10	--	--	27	429	13	2455		
	KARNATAKA	1	--	--	--	--	--	--	--	--	--	--	--	
	KERALA	4	--	--	--	--	--	--	2	200	7	694		
	MAHARASHTRA	2	--	--	--	--	--	--	--	--	--	--	--	
	ORISSA	1	--	--	--	--	--	--	1	40	--	--	--	
	RAJASTHAN	1	--	--	--	--	--	--	2	20	--	--	--	
	TAMIL NADU	1	--	--	--	--	--	--	--	--	2	80		
	WEST BENGAL	30	--	--	--	--	--	--	43	503	29	3493		
TOTAL : STONE		96	1	40	1	10	3	152	118	2114	103	7715		

31. WOLLASTONITE

RAJASTHAN	2	--	--	--	--	--	--	--	--	--	5	12
TOTAL : METALLIFEROUS	940	109	31174	168	13006	332	21217	3338	186897	7288	495044	

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STATEMENT NO. 2.2 (CONT.)

SL. NO.	MINERAL / STATE	WORK SHOP		COMPRESSOR		CONVEYORS		OTHERS		TOTAL	
		NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	14	15	16	17	18	19	20	21	22	23

1. APATITE & ROCK PHOSPHATE

ANDHRA PRADESH	--	--	--	--	--	--	--	--	--	7	60
RAJASTHAN	--	--	--	--	--	--	--	20	16364	25	16437
UTTARANCHAL	3	9	4	20	--	--	--	--	--	22	1807
TOTAL : APATITE & ROCK PHOSPA	3	9	4	20	--	--	--	20	16364	54	18304

2. BARYTES

ANDHRA PRADESH	--	--	--	--	--	--	--	--	--	16	3695
----------------	----	----	----	----	----	----	----	----	----	----	------

3. BAUXITE

CHHATTISGARH	3	330	--	--	--	--	--	--	--	7	770
GUJARAT	--	--	1	90	--	--	--	2	152	12	682
JHARKHAND	2	6	--	--	--	--	--	2	15	44	749
KARNATAKA	--	--	--	--	--	--	--	--	--	1	100
MAHARASHTRA	20	1200	--	--	2	79	24	279	67	1875	
ORISSA	1	200	--	--	21	5700	12	641	64	9596	
TOTAL : BAUXITE	26	1736	1	90	23	5779	40	1087	195	13772	

STATEMENT NO. 2.2
USAGE OF MACHINERY IN ABOVE GROUND IN METALLIFEROUS MINES DURING THE YEAR 2015 : MINERAL-STATEWISE

SL. NO.	MINERAL / STATE	NO.OF MINES USING ELECT.		WINDING		VENTILATION		HAULAGE		PUMPING		MINERAL PLANT		
		POWER	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13		
4. CALCITE														
	RAJASTHAN	3	40	--	--	--	--	--	--	--	35	188		
5. CHINA CLAY,CLAY,WHITE-CLAY														
	ANDHRA PRADESH	--	--	--	--	--	--	--	--	--	2	12		
	GUJARAT	8	68	--	--	--	--	--	7	50	37	331		
	JHARKHAND	--	--	--	--	--	--	--	--	--	72	704		
	KERALA	15	78	--	--	--	--	--	12	41	128	1497		
	ORISSA	--	--	--	--	--	--	--	1	15	3	35		
	RAJASTHAN	--	--	--	--	--	--	--	--	--	3	24		
	WEST BENGAL	2	5	--	--	--	--	--	6	419	34	1374		
TOTAL : CHINA CLAY,CLAY,WHITE-		25	151	--	--	--	--	--	26	525	279	3977		
6. CHROMITE														
	KARNATAKA	5	7	--	--	--	--	--	1	125	21	643		
	ORISSA	43	527	--	--	--	--	--	45	3358	615	26489		
TOTAL : CHROMITE		48	534	--	--	--	--	--	46	3483	636	27132		
7. COPPER														
	JHARKHAND	22	305	8	2000	--	--	--	3	15	57	5027		
	MADHYA PRADESH	47	743	--	--	--	--	--	6	3300	57	5843		
	RAJASTHAN	28	472	--	--	--	--	--	31	10086	73	17659		
TOTAL : COPPER		97	1520	8	2000	--	--	--	40	13401	187	28529		
8. DIAMOND														
	MADHYA PRADESH	9	146	--	--	--	--	--	--	--	69	2098		
9. DOLOMITE														
	ANDHRA PRADESH	--	--	--	--	--	--	--	--	--	38	515		
	CHHATTISGARH	3	129	--	--	--	--	--	--	--	93	3524		
	KARNATAKA	--	--	2	42	--	--	--	1	42	3	84		
	MADHYA PRADESH	--	--	--	--	--	--	--	--	--	4	76		
	MAHARASHTRA	--	--	--	--	--	--	--	--	--	10	141		
	ORISSA	12	80	--	--	--	--	--	--	--	32	990		
	TELANGANA	12	80	--	--	--	--	--	28	1729	44	2184		
TOTAL : DOLOMITE		27	289	2	42	--	--	--	29	1771	224	7514		
10. FELSPAR														

STATEMENT NO. 2.2
USAGE OF MACHINERY IN ABOVE GROUND IN METALLIFEROUS MINES DURING THE YEAR 2015 : MINERAL-STATEWISE

SL. NO.	MINERAL / STATE	NO. OF MINES USING ELECT.		WINDING		VENTILATION		HAULAGE		PUMPING		MINERAL PLANT	
		POWER	NO.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13	
	ANDRA PRADESH	--	--	--	--	--	--	--	--	1	1	5	164
11.	FLUORITE												
	GUJARAT	--	--	3	520	--	--	--	--	--	--	3	520
12.	GALENA & SPHALARITE												
	ANDRA PRADESH	--	--	--	--	--	--	--	--	--	1	30	
	RAJASTHAN	55	832	18	4754	--	--	520	17272	1573	1574	80149	
	TOTAL : GALENA & SPHALARITE	55	832	18	4754	--	--	520	17272	1574	1574	80179	
13.	GOLD												
	JHARKHAND	1	1	--	--	--	--	--	--	--	4	24	
	KARNATAKA	11	1297	--	--	--	--	--	19	11495	164	39921	
	TOTAL : GOLD	12	1298	--	--	--	--	--	19	11495	168	39945	
14.	GRANITE												
	ANDRA PRADESH	70	966	18	2712	--	--	171	6874	446	20047		
	KARNATAKA	11	72	35	3240	--	--	14	790	98	4662		
	KERALA	5	6	--	--	--	--	6	370	57	2459		
	ORISSA	--	--	--	--	--	--	3	175	5	235		
	TELANGANA	--	--	--	--	--	--	2	120	13	230		
	TAMIL NADU	--	--	7	590	--	--	37	4133	74	5055		
	UTTAR PRADESH	3	540	--	--	--	--	2	360	5	900		
	WEST BENGAL	--	--	--	--	--	--	--	--	1	7		
	TOTAL : GRANITE	89	1584	60	6542	--	--	235	12822	699	33595		
15.	GRAPHITE												
	JHARKHAND	--	--	--	--	--	--	--	--	2	10		
	ORISSA	--	--	--	--	--	--	--	--	5	30		
	TOTAL : GRAPHITE	--	--	--	--	--	--	--	--	7	40		
16.	GYPSUM												
	RAJASTHAN	--	--	--	--	--	--	--	1	35	1	35	
17.	IRON												
	ANDRA PRADESH	--	--	--	--	--	--	1	76	5	461		
	CHHATTISGARH	208	3260	--	--	--	--	51	4483	790	63916		
	GOA	84	3380	--	--	--	--	74	11949	549	104728		
	JHARKHAND	105	3208	5	330	--	--	13	838	915	88357		
	KARNATAKA	3	57	3	480	7	140	42	29303	131	39044		

STATEMENT NO. 2.2
USAGE OF MACHINERY IN ABOVE GROUND IN METALLIFEROUS MINES DURING THE YEAR 2015 : MINERAL-STATEWISE

SL. NO.	MINERAL / STATE	NO.OF MINES USING ELECT.		WINDING		VENTILATION		HAULAGE		PUMPING		MINERAL PLANT		
		POWER	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13		
MADHYA PRADESH	--	--	--	--	--	--	--	--	--	--	6	444		
MAHARASHTRA	--	--	--	--	--	--	--	--	--	--	26	3694		
ORISSA	114	1288	10	1665	--	--	--	828	85886	2332	178013			
RAJASTHAN	--	--	--	--	--	--	--	--	--	--	744	55229		
TOTAL : IRON	514	11193	18	2475	7	140	1009	132535	5498	533886				
18. LATERITE														
KARNATAKA	--	--	--	--	5	70	12	235	18	310				
RAJASTHAN	--	--	--	--	--	--	--	5	852	8	1062			
TOTAL : LATERITE	--	--	--	--	5	70	17	1087	26	1372				
19. LIMESTONE														
ANDAMAN & NICOBAR IS	--	--	--	--	--	--	--	--	--	--	1	23		
ANDHRA PRADESH	21	183	3	115	3	556	168	11031	328	18518				
BIHAR	2	117	--	--	--	--	--	--	--	--	10	1053		
CHHATTISGARH	48	503	2	50	--	--	--	111	18352	224	23663			
GUJARAT	4	6	1	180	1	1719	6	247	15	4020				
HIMACHAL PRADESH	13	71	--	--	--	--	--	--	--	--	39	5869		
JHARKHAND	11	170	3	569	--	--	--	--	--	--	26	1334		
JAMMU & KASHMIR	--	--	--	--	--	--	--	1	3	1	3			
KARNATAKA	7	7199	--	--	--	--	--	14	7180	78	39030			
KERALA	7	63	--	--	--	--	--	1	30	37	1791			
MEGHALAYA	3	965	--	--	--	--	--	1	844	9	2199			
MADHYA PRADESH	88	470	3	35	--	--	--	138	31771	425	49284			
MAHARASHTRA	13	81	--	--	--	--	--	5	194	47	6527			
ORISSA	5	35	--	--	--	--	--	111	5474	274	16781			
RAJASTHAN	67	858	7	183	--	--	--	554	37077	1038	66772			
TELANGANA	46	768	3	170	--	--	--	47	4015	250	14268			
TAMIL NADU	12	112	1	5	--	--	--	43	2240	444	20006			
TOTAL : LIMESTONE	347	11601	23	1307	4	2275	1200	118458	3246	271141				
20. MAGNESITE														
KARNATAKA	3	27	1	169	--	--	--	--	--	--	17	550		
TAMIL NADU	17	88	--	--	--	--	--	9	26	33	269			
UTTARANCHAL	--	--	--	--	--	--	--	9	280	9	280			
TOTAL : MAGNESITE	20	115	1	169	--	--	--	18	306	59	1099			
21. MANGANESE														
ANDHRA PRADESH	--	--	--	--	--	--	--	--	--	--	54	1042		
GOA	--	--	--	--	--	--	--	3	80	9	115			

STATEMENT NO. 2.2
USAGE OF MACHINERY IN ABOVE GROUND IN METALLIFEROUS MINES DURING THE YEAR 2015 : MINERAL-STATEWISE

SL. NO.	MINERAL / STATE	NO.OF MINES USING ELECT.		WINDING		VENTILATION		HAULAGE		PUMPING		MINERAL PLANT		
		POWER	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13		
	JHARKHAND	1	100	--	--	--	--	--	--	--	4	582		
	KARNATAKA	20	71	--	--	--	--	--	--	--	43	367		
	MADHYA PRADESH	31	303	5	370	--	--	23	15870	344	27640			
	MAHARASHTRA	30	282	13	2790	--	--	17	2428	193	15421			
	ORISSA	--	--	--	--	--	--	--	--	--	27	1518		
	TOTAL : MANGANESE	82	756	18	3160	--	--	43	18378	674	46685			
22.	MARBLE													
	GUJARAT	25	104	17	540	--	--	93	3640	242	6761			
	MADHYA PRADESH	--	--	2	120	--	--	16	486	35	1596			
	RAJASTHAN	31	375	45	2860	--	--	192	7721	428	12250			
	TOTAL : MARBLE	56	479	64	3520	--	--	301	11847	705	20607			
23.	MICA													
	ANDHRA PRADESH	7	12	7	410	--	--	16	317	137	1934			
	BIHAR	--	--	--	--	--	--	--	--	2	20			
	JHARKHAND	--	--	--	--	--	--	--	--	1	10			
	TOTAL : MICA	7	12	7	410	--	--	16	317	140	1964			
24.	QUARTZ													
	ANDHRA PRADESH	--	--	--	--	--	--	--	--	1	10			
	JHARKHAND	1	1	--	--	--	--	--	--	4	24			
	TELANGANA	--	--	--	--	--	--	--	--	1	10			
	WEST BENGAL	--	--	--	--	--	--	--	--	2	10			
	TOTAL : QUARTZ	1	1	--	--	--	--	--	--	8	54			
25.	SANDSTONE													
	ANDHRA PRADESH	22	254	--	--	--	--	--	1	455	484	10303		
	JHARKHAND	--	--	--	--	--	--	--	--	3	62			
	RAJASTHAN	3	104	--	--	--	--	2	30	8	164			
	TOTAL : SANDSTONE	25	358	--	--	--	--	--	3	485	495	10529		
26.	SELENITE													
	RAJASTHAN	--	--	--	--	--	--	--	2	10	2	10		
27.	SILICA													
	HARYANA	6	10	--	--	--	--	--	1	10	75	898		
	MAHARASHTRA	24	60	--	--	--	--	--	3	482	109	1910		

STATEMENT NO. 2.2
USAGE OF MACHINERY IN ABOVE GROUND IN METALLIFEROUS MINES DURING THE YEAR 2015 : MINERAL-STATEWISE

SL. NO.	MINERAL / STATE	NO. OF MINES USING ELECT.		WINDING		VENTILATION		HAULAGE		PUMPING		MINERAL PLANT	
		POWER	NO.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13	
	RAJASTHAN	--	--	--	--	28	120	20	420	75	1730		
	UTTAR PRADESH	--	--	--	--	--	--	--	--	3	101		
TOTAL : SILICA		30	70	--	--	28	120	24	912	262	4639		
28. SILLIMANITE													
	ANDHRA PRADESH	20	228	--	--	--	--	10	390	390	7100		
	KERALA	--	--	--	--	--	--	--	--	425	4100		
	MAHARASHTRA	10	22	--	--	--	--	--	7	27	295	1671	
TOTAL : SILLIMANITE		30	250	--	--	--	--	--	17	417	1110	12871	
29. STEATITE													
	ANDHRA PRADESH	--	--	--	--	--	--	3	413	8	466		
	JHARKHAND	--	--	--	--	--	--	--	--	1	40		
	ORISSA	--	--	--	--	--	--	--	--	2	3		
	RAJASTHAN	5	86	2	70	--	--	14	1415	67	3601		
TOTAL : STEATITE		5	86	2	70	--	--	17	1828	78	4110		
30. STONE													
	ANDHRA PRADESH	--	--	--	--	--	--	28	136	59	1105		
	BIHAR	--	--	1	50	--	--	--	--	35	482		
	GOA	1	72	--	--	--	--	12	1530	20	1778		
	GUJARAT	3	18	2	130	--	--	24	262	55	900		
	HARYANA	--	--	--	--	--	--	9	1620	9	1620		
	JHARKHAND	11	615	3	276	--	--	17	675	73	4500		
	KARNATAKA	--	--	--	--	--	--	6	99	6	99		
	KERALA	2	305	--	--	--	--	3	205	14	1404		
	MAHARASHTRA	10	20	--	--	--	--	1	30	11	50		
	ORISSA	--	--	--	--	--	--	--	--	1	40		
	RAJASTHAN	--	--	--	--	--	--	9	25	11	45		
	TAMIL NADU	--	--	--	--	--	--	--	--	2	80		
	WEST BENGAL	9	62	2	20	--	--	5	267	88	4345		
TOTAL : STONE		36	1092	8	476	--	--	114	4849	384	16448		
31. WOLLASTONITE													
	RAJASTHAN	4	7	--	--	--	--	15	233	24	252		
TOTAL : METALLIFEROUS		1551	34159	237	25555	67	8384	3773	369918	16863	1185354		

STATEMENT NO. 2.3

USAGE OF MACHINERY IN BELOW GROUND IN METALLIFEROUS MINES DURING THE YEAR 2015

SL. NO.	MINERAL / STATE	NO. OF MINES USING BG MACHINERY		WINDING		HAULAGE		VENTILATION		PUMPING		CONVEYOR		ELECT. TRACT.		OTHERS		TOTAL	
		NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
1.	APATITE & ROCK PHOSPHATE																		
	UTTARANCHAL	2	1	120	1	50	1	50	3	240	3	50	--	--	--	--	9	510	
2.	BARYTES																		
	ANDHRA PRADESH	1	--	--	--	--	1	15	1	10	--	--	--	--	--	--	2	25	
3.	CHROMITE																		
	KARNATAKA	1	--	--	--	--	4	96	--	--	--	--	--	--	--	--	4	96	
	ORISSA	3	--	--	5	1103	11	280	9	450	--	--	2	30	14	5376	41	7239	
TOTAL : CHROMITE		4	--	--	5	1103	15	376	9	450	--	--	2	30	14	5376	45	7335	
4.	COPPER																		
	JHARKHAND	3	6	510	--	--	12	225	38	2249	8	395	18	340	9	375	91	4094	
	RAJASTHAN	2	11	3881	9	1242	38	1040	13	1980	1	25	16	235	21	1588	109	9991	
TOTAL : COPPER		5	17	4391	9	1242	50	1265	51	4229	9	420	34	575	30	1963	200	14085	
5.	GALENA & SPHALARITE																		
	ANDHRA PRADESH	1	--	--	1	75	1	50	2	60	--	--	--	--	--	--	4	185	
	RAJASTHAN	9	4	1244	6	726	67	7568	122	7214	23	3135	4	360	126	17603	352	37850	
TOTAL : GALENA & SPHALARITE		10	4	1244	7	801	68	7618	124	7274	23	3135	4	360	126	17603	356	38035	
6.	GOLD																		
	JHARKHAND	1	--	--	1	10	1	10	2	25	--	--	--	--	--	--	4	45	
	KARNATAKA	2	9	1896	7	515	19	240	59	3793	1	15	28	320	13	601	136	7380	
	UTTARANCHAL	1	--	--	--	--	1	3	--	--	--	--	--	--	--	--	1	3	
TOTAL : GOLD		4	9	1896	8	525	21	253	61	3818	1	15	28	320	13	601	141	7428	
7.	LIMESTONE																		
	JHARKHAND	1	--	--	--	--	--	--	9	748	--	--	--	--	--	--	9	748	
8.	MANGANESE																		
	MADHYA PRADESH	7	4	560	18	415	11	51	49	3570	--	--	16	320	10	60	108	4976	
	MAHARASHTRA	9	--	--	5	170	9	70	67	6461	1	65	2	10	9	174	93	6950	
TOTAL : MANGANESE		16	4	560	23	585	20	121	116	10031	1	65	18	330	19	234	201	11926	
9.	MICA																		
	ANDHRA PRADESH	5	3	35	2	15	2	10	27	251	--	--	--	--	1	2	35	313	
	BIHAR	1	--	--	--	--	--	--	2	20	--	--	--	--	--	--	2	20	
	JHARKHAND	1	--	--	--	--	--	--	2	10	--	--	--	--	--	--	2	10	
TOTAL : MICA		7	3	35	2	15	2	10	31	281	--	--	--	--	1	2	39	343	
10.	STEATITE																		
	RAJASTHAN	2	--	--	--	--	--	--	13	171	--	--	--	--	--	--	13	171	
11.	STONE																		
	WEST BENGAL	1	--	--	--	--	--	--	3	33	--	--	--	--	--	--	3	33	
TOTAL : METALLIFEROUS		53	38	8246	55	4321	178	9708	421	27285	37	3685	86	1615	203	25779	1018	80639	

STATEMENT NO. 2.4
USAGE OF HEAVY EARTH MOVING MACHINERY IN METALLIFEROUS MINES DURING THE YEAR 2015

SL. NO.	MINERAL/STATE	NO. OF MINES USING HEMM	ELECT. SHOVEL		DIESEL SHOVEL		DUMPERS		DOZERS		LOADERS	
			NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13
1. APATITE & ROCK PHOSPHATE												
MADHYA PRADESH		1	--	--	--	--	2	200	--	--	--	--
RAJASTHAN		3	--	--	4	774	20	4220	1	180	--	--
TOTAL : APATITE & ROCK PHOSPA		4	--	--	4	774	22	4420	1	180	--	--
2. BARYTES												
ANDHRA PRADESH		2	--	--	11	1519	55	1420	2	662	--	--
RAJASTHAN		1	--	--	1	250	--	--	--	--	--	--
TOTAL : BARYTES		3	--	--	12	1769	55	1420	2	662	--	--
3. BAUXITE												
CHHATTISGARH		6	--	--	33	5293	70	10221	2	360	7	852
GUJARAT		9	--	--	5	728	13	1194	1	92	10	769
JHARKHAND		17	--	--	37	6508	109	17395	1	76	13	1468
KARNATAKA		1	--	--	3	490	6	855	--	--	2	270
MADHYA PRADESH		1	--	--	1	184	4	720	--	--	--	--
MAHARASHTRA		10	--	--	18	3560	44	5875	1	413	13	1995
ORISSA		3	--	--	12	2646	51	4331	10	3296	11	766
TOTAL : BAUXITE		47	--	--	109	19409	297	40591	15	4237	56	6120
4. CALCITE												
RAJASTHAN		2	--	--	2	240	9	1340	2	360	7	724
5. CHINA CLAY,CLAY,WHITE-CLAY												
GUJARAT		3	--	--	2	228	12	1675	--	--	1	50
JHARKHAND		1	--	--	--	--	2	67	--	--	1	72
KERALA		1	--	--	1	88	2	258	--	--	--	--
RAJASTHAN		6	--	--	7	925	30	4500	--	--	5	375
TOTAL : CHINA CLAY,CLAY,WHITE-		11	--	--	10	1241	46	6500	--	--	7	497
6. CHROMITE												
ORISSA		18	--	--	76	17017	472	72299	72	8744	40	3886
7. COPPER												
MADHYA PRADESH		1	--	--	10	9810	20	10000	5	2000	5	2000
RAJASTHAN		2	--	--	--	--	2	220	--	--	12	960
TOTAL : COPPER		3	--	--	10	9810	22	10220	5	2000	17	2960
8. DIAMOND												
MADHYA PRADESH		1	--	--	3	716	6	3446	3	960	2	506
9. DOLOMITE												

STATEMENT NO. 2.4
USAGE OF HEAVY EARTH MOVING MACHINERY IN METALLIFEROUS MINES DURING THE YEAR 2015

SL. NO.	MINERAL/STATE	NO.OF MINES USING HEMM	ELECT. SHOVEL		DIESEL SHOVEL		DUMPERS		DOZERS		LOADERS	
			NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13
	CHHATTISGARH	3	--	--	6	1415	27	4510	3	1010	20	3800
	MAHARASHTRA	1	--	--	1	130	4	490	--	--	1	124
	ORISSA	3	--	--	6	839	30	5242	--	--	5	676
	UTTAR PRADESH	1	--	--	1	140	2	300	--	--	--	--
TOTAL : DOLOMITE		8	--	--	14	2524	63	10542	3	1010	26	4600
10. FLUORITE												
	GUJARAT	1	--	--	3	510	--	--	2	540	--	--
11. GALENA & SPHALARITE												
	RAJASTHAN	3	--	--	--	--	17	7226	4	367	10	3271
12. GOLD												
	KARNATAKA	1	--	--	--	--	1	125	--	--	--	--
13. GRANITE												
	ANDHRA PRADESH	88	6	1380	231	53534	190	47940	11	2952	15	3699
	GOA	1	--	--	2	268	--	--	--	--	--	--
	KARNATAKA	11	--	--	56	10133	59	9837	3	350	11	1590
	KERALA	18	--	--	36	5669	40	5481	--	--	3	252
	MADHYA PRADESH	1	--	--	9	2248	15	2310	1	160	1	355
	ORISSA	1	--	--	3	555	5	735	--	--	--	--
	TELANGANA	4	--	--	9	1431	3	740	--	--	--	--
	TAMIL NADU	69	--	--	95	19338	129	15264	4	697	2	1085
	UTTAR PRADESH	3	--	--	9	2624	6	1255	3	960	--	--
TOTAL : GRANITE		196	6	1380	450	95800	447	83562	22	5119	32	6981
14. GRAPHITE												
	JHARKHAND	1	--	--	--	--	--	--	--	--	--	--
	ORISSA	1	--	--	--	--	2	200	--	--	--	--
TOTAL : GRAPHITE		2	--	--	--	--	2	200	--	--	--	--
15. GYPSUM												
	RAJASTHAN	6	--	--	8	1103	--	--	--	--	--	--
16. IRON												
	ANDHRA PRADESH	2	--	--	8	1716	34	5462	--	--	3	400
	CHHATTISGARH	13	20	9150	66	21254	294	90067	53	22980	25	7147
	GOA	38	--	--	106	22982	530	69031	46	16584	87	18268
	JHARKHAND	13	--	--	47	13553	75	39574	26	9471	31	9776
	KARNATAKA	62	--	--	258	51368	802	143131	15	3706	188	24209
	MADHYA PRADESH	9	--	--	27	3745	47	7334	1	410	9	1044
	MAHARASHTRA	12	--	--	44	8920	206	33356	16	4411	28	3414
	ORISSA	53	--	--	360	67449	740	151424	57	17340	213	27422
	RAJASTHAN	1	--	--	4	778	30	3600	--	--	3	372

STATEMENT NO. 2.4
USAGE OF HEAVY EARTH MOVING MACHINERY IN METALLIFEROUS MINES DURING THE YEAR 2015

SL. NO.	MINERAL/STATE	NO.OF MINES USING HEMM	ELECT. SHOVEL		DIESEL SHOVEL		DUMPERS		DOZERS		LOADERS	
			NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13
TOTAL : IRON		203	20	9150	920	191765	2758	542979	214	74902	587	92052
17. LATERITE												
ANDHRA PRADESH	8	--	--	13	3381	31	6661	1	460	--	--	--
GUJARAT	2	--	--	1	128	8	1490	--	--	--	--	--
KARNATAKA	2	--	--	5	739	12	1658	1	200	4	475	
RAJASTHAN	1	--	--	7	1040	26	4920	2	720	--	--	--
TOTAL : LATERITE	13	--	--	26	5288	77	14729	4	1380	4	475	
18. LIMESTONE												
ANDAMAN & NICOBAR IS	1	--	--	1	106	2	344	--	--	--	--	--
ANDHRA PRADESH	32	--	--	94	28655	269	83135	24	6985	24	4529	
ASSAM	4	--	--	4	600	22	1150	1	155	1	96	
BIHAR	1	--	--	3	350	20	3000	2	400	1	150	
CHHATTISGARH	12	--	--	47	21037	139	60511	19	7142	14	3971	
GUJARAT	19	1	180	53	16139	260	53290	16	5510	33	6158	
HIMACHAL PRADESH	11	--	--	54	18857	119	41092	16	4354	10	1839	
JHARKHAND	3	--	--	7	2333	12	7238	3	945	1	305	
JAMMU & KASHMIR	1	--	--	2	250	2	320	1	320	--	--	
KARNATAKA	25	--	--	87	27652	274	127525	40	21440	53	13068	
KERALA	1	--	--	4	1492	16	2270	--	--	--	--	
MEGHALAYA	8	--	--	17	4161	68	17519	6	1269	1	320	
MADHYA PRADESH	39	--	--	156	36780	396	86299	40	10012	26	6768	
MAHARASHTRA	7	--	--	22	7606	78	28236	13	5122	4	1103	
ORISSA	7	--	--	40	11316	123	35945	5	1690	7	987	
RAJASTHAN	72	--	--	199	50016	799	147373	45	13339	49	6823	
TELANGANA	27	2	405	70	16812	193	53072	19	5846	15	4391	
TAMIL NADU	42	--	--	119	22859	293	51534	26	8073	25	3279	
UTTAR PRADESH	2	--	--	8	2945	54	13275	3	924	--	--	
TOTAL : LIMESTONE	314	3	585	987	269966	3139	813128	279	93526	264	53787	
19. MAGNESITE												
KARNATAKA	2	--	--	2	390	7	835	--	--	1	118	
TAMIL NADU	4	--	--	11	1619	54	11030	3	820	9	1335	
UTTARANCHAL	1	--	--	3	330	2	300	--	--	1	150	
TOTAL : MAGNESITE	7	--	--	16	2339	63	12165	3	820	11	1603	
20. MANGANESE												
ANDHRA PRADESH	7	--	--	11	1332	17	1259	2	420	6	807	
GOA	2	--	--	6	698	57	4514	--	--	--	--	
GUJARAT	2	--	--	5	1466	3	530	--	--	--	--	
JHARKHAND	1	--	--	2	503	4	620	--	--	4	440	
KARNATAKA	6	--	--	23	1034	74	1714	1	200	14	1056	
MADHYA PRADESH	15	--	--	16	2898	82	13346	4	1100	19	2029	
MAHARASHTRA	2	--	--	4	848	53	6880	2	550	4	995	

STATEMENT NO. 2.4
USAGE OF HEAVY EARTH MOVING MACHINERY IN METALLIFEROUS MINES DURING THE YEAR 2015

SL. NO.	MINERAL/STATE	NO.OF MINES USING HEMM	ELECT. SHOVEL		DIESEL SHOVEL		DUMPERS		DOZERS		LOADERS	
			NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13
	ORISSA	13	--	--	50	8802	153	29338	9	1395	14	1862
TOTAL : MANGANESE		48	--	--	117	17581	443	58201	18	3665	61	7189
21. MARBLE												
	GUJARAT	3	--	--	14	2673	23	3318	--	--	7	672
	MADHYA PRADESH	3	--	--	4	893	9	1775	--	--	6	1115
	RAJASTHAN	8	13	1045	39	9107	48	15689	2	345	15	4492
TOTAL : MARBLE		14	13	1045	57	12673	80	20782	2	345	28	6279
22. MICA												
	ANDHRA PRADESH	2	--	--	2	113	--	--	--	--	--	--
23. QUARTZ												
	TELANGANA	2	--	--	2	450	10	1100	--	--	--	--
	WEST BENGAL	1	--	--	--	--	2	260	--	--	--	--
TOTAL : QUARTZ		3	--	--	2	450	12	1360	--	--	--	--
24. SANDSTONE												
	HARYANA	1	--	--	2	400	--	--	--	--	--	--
	RAJASTHAN	1	--	--	2	262	30	3516	--	--	--	--
	UTTAR PRADESH	1	--	--	--	--	10	1082	--	--	1	110
TOTAL : SANDSTONE		3	--	--	4	662	40	4598	--	--	1	110
25. SILICA												
	GUJARAT	1	--	--	1	160	5	800	--	--	--	--
	HARYANA	4	--	--	6	980	22	3400	--	--	3	440
	MAHARASHTRA	3	--	--	3	542	--	--	--	--	2	200
	RAJASTHAN	3	--	--	4	440	32	3520	--	--	9	660
TOTAL : SILICA		11	--	--	14	2122	59	7720	--	--	14	1300
26. SILLIMANITE												
	ANDHRA PRADESH	1	--	--	10	1200	40	7000	3	500	8	600
	MAHARASHTRA	1	--	--	--	--	10	2200	--	--	8	880
TOTAL : SILLIMANITE		2	--	--	10	1200	50	9200	3	500	16	1480
27. STEATITE												
	ANDHRA PRADESH	1	--	--	1	350	--	--	--	--	--	--
	MADHYA PRADESH	1	--	--	--	--	1	50	--	--	--	--
	ORISSA	1	--	--	1	115	2	80	--	--	--	--
	RAJASTHAN	9	--	--	13	2922	65	11688	1	180	12	1025

STATEMENT NO. 2.4
USAGE OF HEAVY EARTH MOVING MACHINERY IN METALLIFEROUS MINES DURING THE YEAR 2015

SL. NO.	MINERAL/STATE	NO.OF MINES USING HEMM	ELECT. SHOVEL		DIESEL SHOVEL		DUMPERS		DOZERS		LOADERS	
			NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13
TOTAL : STEATITE		12	--	--	15	3387	68	11818	1	180	12	1025
28. STONE												
ANDHRA PRADESH		8	--	--	14	2262	18	3450	2	552	5	523
BIHAR		1	--	--	--	--	23	4986	--	--	--	--
GOA		4	--	--	9	1005	--	--	--	--	1	96
GUJARAT		1	--	--	2	250	9	1112	--	--	1	112
HARYANA		4	--	--	24	7532	38	10855	4	815	4	496
JHARKHAND		20	--	--	11	1466	23	2756	--	--	4	285
KARNATAKA		1	--	--	2	393	1	143	1	183	--	--
KERALA		10	--	--	23	3564	22	2920	--	--	1	90
MAHARASHTRA		4	--	--	16	4868	39	10520	2	610	12	3715
ORISSA		2	--	--	4	926	2	500	--	--	--	--
RAJASTHAN		2	--	--	--	--	3	180	1	100	--	--
TAMIL NADU		5	--	--	9	1849	23	3560	--	--	1	130
WEST BENGAL		1	--	--	10	2125	17	2500	--	--	3	2500
TOTAL : STONE		63	--	--	124	26240	218	43482	10	2260	32	7947
29. WOLLASTONITE												
RAJASTHAN		3	--	--	5	640	19	2510	1	165	4	400
TOTAL : METALLIFEROUS		1004	42	12160	3000	685339	8485	1784563	666	201922	1231	203192
.pa												
.cw 12												
STATEMENT NO. 2.4 (Continued)												
.cw 7												
USAGE OF HEAVY EARTH MOVING MACHINERY IN METALLIFEROUS MINES DURING THE YEAR 2015												
SL. NO.	MINERAL/STATE	TRACTOR		DRAG-LINE		GRADER		OTHERS		TOTAL HEMM		
1	2	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	
TOTAL : APATITE & ROCK PHOSPHATE		14	15	16	17	18	19	20	21	22	23	
MADHYA PRADESH		--	--	--	--	--	--	--	--	2	200	
RAJASTHAN		--	--	--	--	--	--	22	47349	47	52523	
TOTAL : APATITE & ROCK PHOSPHATE		--	--	--	--	--	--	22	47349	49	52723	
2. BARYTES												
ANDHRA PRADESH		--	--	--	--	--	--	--	--	68	3601	
RAJASTHAN		--	--	--	--	--	--	--	--	1	250	
TOTAL : BARYTES		--	--	--	--	--	--	--	--	69	3851	

STATEMENT NO. 2.4
USAGE OF HEAVY EARTH MOVING MACHINERY IN METALLIFEROUS MINES DURING THE YEAR 2015

SL. NO.	MINERAL/STATE	NO. OF MINES USING HEMM	ELECT. SHOVEL		DIESEL SHOVEL		DUMPERS		DOZERS		LOADERS	
			NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13
3. BAUXITE												
CHHATTISGARH	--	--	--	--	--	--	--	5	550	117	17276	
GUJARAT	4	360	--	--	--	--	--	2	135	35	3278	
JHARKHAND	--	--	--	--	--	--	--	9	1039	169	26486	
KARNATAKA	--	--	--	--	--	--	--	--	--	11	1615	
MADHYA PRADESH	--	--	--	--	--	--	--	--	--	5	904	
MAHARASHTRA	--	--	--	--	--	--	--	20	2351	96	14194	
ORISSA	--	--	--	--	--	4	665	7	920	95	12624	
TOTAL : BAUXITE	4	360	--	--	4	665	43	4995	528	76377		
4. CALCITE												
RAJASTHAN	--	--	--	--	--	--	--	--	--	20	2664	
5. CHINA CLAY,CLAY,WHITE-CLAY												
GUJARAT	4	180	--	--	--	--	--	4	180	23	2313	
JHARKHAND	--	--	--	--	--	--	--	--	--	3	139	
KERALA	--	--	--	--	--	--	--	--	--	3	346	
RAJASTHAN	1	40	--	--	--	--	--	--	--	43	5840	
TOTAL : CHINA CLAY,CLAY,WHITE-	5	220	--	--	--	--	--	4	180	72	8638	
6. CHROMITE												
ORISSA	1	40	--	--	--	11	1290	48	5825	720	109101	
7. COPPER												
MADHYA PRADESH	--	--	--	--	--	--	--	10	8000	50	31810	
RAJASTHAN	1	50	--	--	--	--	--	--	--	15	1230	
TOTAL : COPPER	1	50	--	--	--	--	--	10	8000	65	33040	
8. DIAMOND												
MADHYA PRADESH	--	--	--	--	--	1	145	--	--	15	5773	
9. DOLOMITE												
CHHATTISGARH	--	--	--	--	2	600	6	2050	64	13385		
MAHARASHTRA	--	--	--	--	--	--	--	--	--	6	744	
ORISSA	--	--	--	--	--	--	--	--	--	41	6757	
UTTAR PRADESH	--	--	--	--	--	--	--	--	--	3	440	
TOTAL : DOLOMITE	--	--	--	--	2	600	6	2050	114	21326		
10. FLUORITE												
GUJARAT	--	--	--	--	--	--	--	--	--	5	1050	
11. GALENA & SPHALARITE												

STATEMENT NO. 2.4
USAGE OF HEAVY EARTH MOVING MACHINERY IN METALLIFEROUS MINES DURING THE YEAR 2015

SL. NO.	MINERAL/STATE	NO.OF MINES USING HEMM	ELECT. SHOVEL		DIESEL SHOVEL		DUMPERS		DOZERS		LOADERS	
			NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13
	RAJASTHAN	--	--	--	--	--	--	--	10	1540	41	12404
12. GOLD	KARNATAKA	--	--	--	--	--	--	--	--	--	1	125
13. GRANITE	ANDHRA PRADESH	2	350	--	--	--	--	106	10945	561	120800	
	GOA	--	--	--	--	--	--	--	--	2	268	
	KARNATAKA	4	260	--	--	--	--	10	811	143	22981	
	KERALA	1	45	--	--	--	--	9	780	89	12227	
	MADHYA PRADESH	--	--	--	--	--	--	3	330	29	5403	
	ORISSA	--	--	--	--	--	--	--	--	8	1290	
	TELANGANA	--	--	--	--	--	--	2	155	14	2326	
	TAMIL NADU	--	--	--	--	--	--	41	5226	271	41610	
	UTTAR PRADESH	--	--	--	--	--	--	7	765	25	5604	
TOTAL : GRANITE		7	655	--	--	--	--	178	19012	1142	212509	
14. GRAPHITE	JHARKHAND	--	--	--	--	--	--	10	464	10	464	
	ORISSA	--	--	--	--	--	--	--	--	2	200	
TOTAL : GRAPHITE		--	--	--	--	--	--	10	464	12	664	
15. GYPSUM	RAJASTHAN	3	125	--	--	--	--	3	115	14	1343	
16. IRON	ANDHRA PRADESH	--	--	--	--	--	--	2	170	47	7748	
	CHHATTISGARH	3	190	--	--	14	2719	56	17026	531	170533	
	GOA	--	--	--	--	8	1307	24	5057	801	133229	
	JHARKHAND	--	--	--	--	8	1834	39	7353	226	81561	
	KARNATAKA	1	50	--	--	5	550	65	10182	1334	233196	
	MADHYA PRADESH	1	50	--	--	--	--	--	--	85	12583	
	MAHARASHTRA	--	--	--	--	3	830	15	2549	312	53480	
	ORISSA	2	100	--	--	13	2489	103	38435	1488	304659	
	RAJASTHAN	--	--	--	--	--	--	--	--	37	4750	
TOTAL : IRON		7	390	--	--	51	9729	304	80772	4861	1001739	
17. LATERITE	ANDHRA PRADESH	--	--	--	--	--	--	4	2085	49	12587	
	GUJARAT	--	--	--	--	--	--	--	--	9	1618	
	KARNATAKA	--	--	--	--	--	--	--	--	22	3072	
	RAJASTHAN	--	--	--	--	--	--	--	--	35	6680	
TOTAL : LATERITE		--	--	--	--	--	--	4	2085	115	23957	

STATEMENT NO. 2.4
USAGE OF HEAVY EARTH MOVING MACHINERY IN METALLIFEROUS MINES DURING THE YEAR 2015

SL. NO.	MINERAL/STATE	NO. OF MINES USING HEMM	ELECT. SHOVEL		DIESEL SHOVEL		DUMPERS		DOZERS		LOADERS	
			NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13
18. LIMESTONE												
ANDAMAN & NICOBAR IS	--	--	--	--	--	--	--	1	50	4	500	
ANDHRA PRADESH	3	216	--	--	2	320	21	2603	437	126443		
ASSAM	--	--	--	--	--	--	3	1390	31	3391		
BIHAR	--	--	--	--	--	--	--	--	26	3900		
CHHATTISGARH	--	--	--	--	6	4420	18	9340	243	106421		
GUJARAT	2	90	--	--	5	851	43	13624	413	95842		
HIMACHAL PRADESH	--	--	--	--	1	179	3	98	203	66419		
JHARKHAND	2	100	--	--	--	--	4	470	29	11391		
JAMMU & KASHMIR	--	--	--	--	--	--	--	--	5	890		
KARNATAKA	2	119	--	--	21	9170	42	52676	519	251650		
KERALA	--	--	--	--	--	--	--	--	20	3762		
MEGHALAYA	--	--	--	--	--	--	4	750	96	24019		
MADHYA PRADESH	3	166	--	--	15	3501	16	5222	652	148748		
MAHARASHTRA	1	60	--	--	2	305	4	492	124	42924		
ORISSA	1	60	--	--	1	145	5	625	182	50768		
RAJASTHAN	8	337	--	--	3	765	97	19090	1200	237743		
TELANGANA	3	331	--	--	--	--	14	1624	316	82481		
TAMIL NADU	2	90	--	--	--	--	27	15689	492	101524		
UTTAR PRADESH	--	--	--	--	--	--	--	--	65	17144		
TOTAL : LIMESTONE	27	1569	--	--	56	19656	302	123743	5057	1375960		
19. MAGNESITE												
KARNATAKA	--	--	--	--	--	--	--	--	10	1343		
TAMIL NADU	2	116	--	--	1	280	3	330	83	15530		
UTTARANCHAL	--	--	--	--	--	--	--	--	6	780		
TOTAL : MAGNESITE	2	116	--	--	1	280	3	330	99	17653		
20. MANGANESE												
ANDHRA PRADESH	1	55	--	--	--	--	--	--	37	3873		
GOA	--	--	--	--	--	--	--	--	63	5212		
GUJARAT	--	--	--	--	--	--	--	--	8	1996		
JHARKHAND	--	--	--	--	--	--	--	--	10	1563		
KARNATAKA	--	--	--	--	--	--	--	--	112	4004		
MADHYA PRADESH	2	100	--	--	--	--	10	2163	133	21636		
MAHARASHTRA	--	--	--	--	--	--	1	30	64	9303		
ORISSA	--	--	--	--	--	--	21	1473	247	42870		
TOTAL : MANGANESE	3	155	--	--	--	--	32	3666	674	90457		
21. MARBLE												
GUJARAT	4	262	--	--	--	--	--	--	48	6925		
MADHYA PRADESH	--	--	--	--	--	--	1	50	20	3833		
RAJASTHAN	--	--	--	--	--	--	17	1416	134	32094		
TOTAL : MARBLE	4	262	--	--	--	--	18	1466	202	42852		

STATEMENT NO. 2.4
USAGE OF HEAVY EARTH MOVING MACHINERY IN METALLIFEROUS MINES DURING THE YEAR 2015

SL. NO.	MINERAL/STATE	NO.OF MINES USING HEMM	ELECT. SHOVEL		DIESEL SHOVEL		DUMPERS		DOZERS		LOADERS	
			NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13
22. MICA												
	ANDHRA PRADESH	--	--	--	--	--	--	--	2	125	4	238
23. QUARTZ												
	TELANGANA	--	--	--	--	--	--	--	--	--	12	1550
	WEST BENGAL	--	--	--	--	--	--	--	--	--	2	260
TOTAL : QUARTZ		--	--	--	--	--	--	--	--	--	14	1810
24. SANDSTONE												
	HARYANA	--	--	--	--	--	--	--	--	--	2	400
	RAJASTHAN	--	--	--	--	--	--	--	--	--	32	3778
	UTTAR PRADESH	--	--	--	--	--	--	4	440	15	1632	
TOTAL : SANDSTONE		--	--	--	--	--	--	4	440	49	5810	
25. SILICA												
	GUJARAT	--	--	--	--	--	--	--	--	--	6	960
	HARYANA	--	--	--	--	--	--	11	1187	42	6007	
	MAHARASHTRA	--	--	--	--	--	--	--	--	--	5	742
	RAJASTHAN	--	--	--	--	--	--	--	--	--	45	4620
TOTAL : SILICA		--	--	--	--	--	--	11	1187	98	12329	
26. SILLIMANITE												
	ANDHRA PRADESH	--	--	--	--	5	900	--	--	66	10200	
	MAHARASHTRA	--	--	--	--	--	--	--	--	18	3080	
TOTAL : SILLIMANITE		--	--	--	--	5	900	--	--	84	13280	
27. STEATITE												
	ANDHRA PRADESH	--	--	--	--	--	--	--	--	1	350	
	MADHYA PRADESH	--	--	--	--	--	--	--	--	1	50	
	ORISSA	--	--	--	--	--	--	--	--	3	195	
	RAJASTHAN	4	175	--	--	--	--	2	590	97	16580	
TOTAL : STEATITE		4	175	--	--	--	--	2	590	102	17175	
28. STONE												
	ANDHRA PRADESH	1	110	--	--	--	--	9	719	49	7616	
	BIHAR	--	--	--	--	--	--	--	--	23	4986	
	GOA	--	--	--	--	--	--	--	--	10	1101	
	GUJARAT	--	--	--	--	--	--	--	--	12	1474	
	HARYANA	--	--	--	--	1	160	1	118	72	19976	
	JHARKHAND	2	120	--	--	--	--	3	176	43	4803	
	KARNATAKA	--	--	--	--	--	--	1	147	5	866	

STATEMENT NO. 2.4
USAGE OF HEAVY EARTH MOVING MACHINERY IN METALLIFEROUS MINES DURING THE YEAR 2015

SL. NO.	MINERAL/STATE	NO.OF MINES USING HEMM	ELECT. SHOVEL		DIESEL SHOVEL		DUMPERS		DOZERS		LOADERS	
			NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.	NO.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13
	KERALA	2	100	--	--	--	--	4	600	52	7274	
	MAHARASHTRA	--	--	--	--	1	140	--	--	70	19853	
	ORISSA	--	--	--	--	--	--	--	--	6	1426	
	RAJASTHAN	3	450	--	--	--	--	--	--	7	730	
	TAMIL NADU	--	--	--	--	--	--	--	--	33	5539	
	WEST BENGAL	--	--	--	--	--	--	1	150	31	7275	
TOTAL : STONE		8	780	--	--	2	300	19	1910	413	82919	
<hr/>												
29. WOLLASTONITE	RAJASTHAN	--	--	--	--	--	--	20	4365	49	8080	
TOTAL : METALLIFEROUS		76	4897	--	--	133	33565	--	310209	14688	3235847	
<hr/>												

STATEMENT NO. 2.5
USAGE OF ELECTRICAL MACHINERIES AND DIESEL COMPRESSORS IN OIL MINES DURING THE YEAR 2015

STATE	No. of Mines Using Machineries		DRAW WORKS		HOISTS		PUMPS		PORTABLE MACH.		WORKSHOPS		OTHERS		TOTAL		DIESEL COMP.	
	No.	H.P.	No.	H.P.	No.	H.P.	No.	H.P.	No.	H.P.	No.	H.P.	No.	H.P.	No.	H.P.	No.	H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
ANDHRA PRADESH	8	28	24400	1	5	284	46572	--	--	2	6	897	72998	1212	143981	35	2751	
ARUNACHAL PRADESH	1	1	30	1	150	145	1893	2	6	2	2	7	173	158	2254	--	--	
ASSAM	21	254	209087	89	10306	1162	246290	64	1348	--	--	3144	256979	4713	724010	109	26543	
BIHAR	1	3	3000	2	2000	2	4000	--	--	1	1000	--	--	8	10000	--	--	
GUJARAT	38	60	26231	100	14814	2172	157047	42	98	22	342	819	83534	3215	282066	53	3620	
HIMACHAL PRADESH	1	1	2000	--	--	9	4650	--	--	--	--	19	1360	29	8010	--	--	
JHARKHAND	7	5	4415	2	370	99	11906	3	15	8	25	4	1055	121	17786	9	1226	
MADHYA PRADESH	3	7	2840	--	--	18	2786	8	301	3	100	10	26	46	6053	--	--	
PONDICHERRY	2	--	--	--	--	284	4378	--	--	--	--	64	822	348	5200	6	90	
RAJASTHAN	10	5	4000	3	1500	396	42356	112	387	--	--	918	81164	1434	129407	38	1288	
TAMIL NADU	3	12	12000	--	--	65	16861	12	10	12	100	267	13889	368	42860	14	2674	
TRIPURA	3	--	--	3	4800	66	8588	2	10	--	--	67	3184	138	16582	6	600	
WEST BENGAL	5	9	3960	3	2750	390	18746	--	--	10	1045	145	28713	557	55214	11	1751	
TOTAL : OIL	103	385	291963	204	36695	5092	566073	245	2175	60	2620	6361	543897	12347	1443423	281	40543	

STATEMENT NO. 2.6

USAGE OF DRILLS AND DIESEL COMPRESSORS IN METALLIFEROUS MINES DURING THE YEAR 2015

MINERAL	NO. OF MINES USING DRILLS		NUMBER OF DRILLS			NO. OF MINES USING COMPRESSORS		COMPRESSORS	
	1	2	3	4	5	6	7	8	
APATITE & ROCK PHOSPHATE	7	21	3	24	7	19	1308		
BARYTES	5	5	7	12	5	11	1276		
BAUXITE	61	53	79	132	23	48	8078		
CALCITE	2	3	5	8	2	6	950		
CHINA CLAY, CLAY, WHITE-	2	4	--	4	2	5	510		
CHROMITE	17	25	47	72	6	13	1766		
COPPER	5	120	58	178	3	24	8134		
DIAMOND	1	--	3	3	--	--	--		
DOLOMITE	30	50	25	75	15	24	3016		
FELSPAR	4	11	--	11	--	--	--		
GALENA & SPHALARITE	10	73	36	109	2	7	260		
GOLD	5	378	72	450	2	9	5155		
GRANITE	252	1365	425	1790	193	538	64579		
GRAPHITE	1	2	1	3	--	--	--		
GYPSUM	3	4	2	6	--	--	--		
IRON	139	92	230	322	72	153	25421		
LATERITE	1	3	1	4	1	3	150		
LIMESTONE	392	373	525	898	201	346	48812		
MAGNESITE	8	18	9	27	6	13	1580		
MANGANESE	79	388	226	614	42	108	17144		
MARBLE	17	121	69	190	11	35	3731		
MICA	22	39	9	48	11	12	905		
QUARTZ	19	36	7	43	5	5	1053		
SANDSTONE	2	1	5	6	1	3	408		
SILICA	20	52	13	65	14	23	4197		
SILLIMANITE	2	1	3	4	4	10	1370		
STEATITE	36	69	38	107	17	55	4840		
STONE	209	318	126	444	99	156	16622		
WOLLASTONITE	1	--	7	7	2	6	1160		
TOTAL : METALLIFEROUS	1352	3625	2031	5656	746	1632	222425		

SECTION – III

EXPLOSIVES

Statement 3.1: Trend in consumption of explosives and detonators

Year	No. of mines using explosives	Consumption of explosives (in tonnes)								Detonators ('000 numbers)	
		N.G. based	A.N. based	Liquid oxygen	Slurries large	Slurries small	Boosters	Gun powder	Total	Electrical	Ordinary
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1984	915	6,222	4,481	744	5,088	1,736	213	112	18,596	8,633	9,122
1985	904	5,493	5,102	740	8,186	3,315	42	82	22,960	7,759	9,385
1986	983	4,053	5,711	992	10,692	3,339	36	94	24,917	8,429	10,363
1987	983	4,318	6,249	1,180	11,727	3,584	31	90	27,179	8,864	9,339
1988	959	4,120	6,318	1,691	13,648	2,190	61	91	28,119	8,427	8,713
1989	953	4,104	6,964	1,553	15,687	1,433	52	80	29,882	8,656	8,665
1990	944	4,650	7,912	1,786	15,703	1,554	44	71	31,720	8,023	8,124
1991	949	5,793	10,272	1,148	20,690	2,262	44	63	40,272	8,204	8,708
1992	952	4,293	11,868	648	23,831	3,309	51	59	44,059	9,676	8,920
1993	993	3,765	14,087	244	22,264	3,601	37	60	44,058	9,836	7,864
1994	1,025	3,065	13,448	260	22,400	4,015	29	68	43,285	9,485	7,919
1995	1,064	3,766	13,767	171	23,781	4,546	42	105	46,178	9,239	9,386
1996	1,027	3,429	14,520	124	23,993	5,053	30	93	47,243	8,216	8,864
1997	1,020	2,759	17,964	39	15,182	7,256	42	113	43,356	7,379	7,717
1998	1,017	1,713	18,719	154	17,199	9,126	52	111	47,074	6,716	7,529
1999	967	1,828	22,151	153	18,353	7,159	30	86	49,760	6,307	7,284
2000	1,056	1,233	17,887	148	25,561	10,333	94	113	55,369	6,582	7,201
2001	1,045	1,021	21,476	140	24,303	7,877	81	92	55,809	6,028	6,142
2002	1,206	1,092	21,111	368	26,186	6,640	128	88	55,613	6,621	6,138
2003	1,075	1,005	20,471	238	36,473	5,279	176	88	63,729	7,076	6,395
2004	1,098	1,323	24,547	168	36,883	7,300	253	111	70,584	7,458	6,768
2005	1,128	1,382	28,085	168	40,538	9,892	501	130	80,700	8,264	6,339
2006	983	608	33,757	Nil*	53,240	6,766	662	116	95,146	9,073	5,551
2007	1043	566	31,179	457	57,122	7,940	437	73	97,769	9,413	4,658
2008	1105	655	38,438	457	63,282	7,096	691	111	120,866	10,078	5,515
2009	1140	471	36,843	282	56,607	7,103	338	92	101,736	10,533	4,989
2010	1141	438	34,249	268	54,621	7,220	369	106	97,272	12,657	4,289
2011	1133	917	32,657	626	57,942	6,200	370	634	98,213	11,425	4,606
2012	1157	603	37,527	504	56,939	6,505	563	61	102,249	11,363	5,081
2013	1188	498	36,700	81	53,477	8,890	532	61	100,239	10,527	4,673
2014	1161	399	39,048	82	63,776	9,309	609	61	113,200	9305	4,087
2015	1183	237	34,144	62	60,671	9,831	441	41	105,428	9905	4780

*No mine reported the use of Liquid oxygen during the year 2006.

STATEMENT NO. 3.2
CONSUMPTION OF EXPLOSIVES IN METALLIFEROUS MINES DURING THE YEAR 2015 : MINERAL- STATEWISE

(IN KILOGRAMS)

Sl. No.	Mineral / State	No. of Mines Using Explosives	N. G. Based		A. N. Based	Slurries		Boosters	Liquid Oxygen	Gun Powder	Total amount of explosives used	Detonators (In Numbers)	
			Large Diameter	Small Diameter		Large Diameter	Small Diameter					Electric	Ordinary
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. APATITE & ROCK PHOSPHATE													
	ANDHRA PRADESH	1	--	2158	--	--	--	--	--	--	2158	4820	--
	MADHYA PRADESH	2	--	4775	--	--	33	--	--	--	4808	1152	10000
	RAJASTHAN	2	--	--	--	110081	2100	--	--	--	112181	2	22
	UTTARANCHAL	2	--	580	--	--	--	--	--	--	580	--	--
TOTAL : APATITE & ROCK PHOSPHATE		7	--	7513	--	110081	2133	--	--	--	119727	5974	10022
2. BARYTES													
	ANDHRA PRADESH	2	--	--	--	360200	1147752	735	--	--	1508687	2194	1385
	HIMACHAL PRADESH	1	--	103	--	--	--	--	--	--	103	--	820
	RAJASTHAN	1	--	--	--	--	555	--	--	--	555	--	4440
	TELANGANA	1	--	100	--	--	--	--	--	--	100	--	--
TOTAL : BARYTES		5	--	203	--	360200	1148307	735	--	--	1509445	2194	6645
3. BAUXITE													
	CHHATTISGARH	9	--	--	689115	47620	84995	--	--	--	821730	4293	16454
	GUJARAT	6	--	--	1790	2484	21063	--	--	--	25337	6791	4488
	JHARKHAND	25	--	200	738182	24753	8090	--	--	--	771225	364	72886
	KARNATAKA	1	--	--	--	--	117	--	--	--	117	369	--
	MADHYA PRADESH	3	--	735	--	8567	--	--	--	--	9302	9544	59348
	MAHARASHTRA	5	--	--	38315	130069	800	--	--	--	169184	5703	984
	ORISSA	3	--	--	618245	1048455	1860	90050	--	--	1758610	32184	376
	TAMIL NADU	1	--	44	--	--	--	--	--	--	44	34	--
	UTTAR PRADESH	3	--	--	1391	--	921	--	--	--	2312	--	17943
TOTAL : BAUXITE		56	--	979	2087038	1261948	117846	90050	--	--	3557861	59282	172479
4. CALCITE													
	RAJASTHAN	2	--	2309	59075	4715	--	--	--	--	66099	49817	5133
5. CHINA CLAY,CLAY,WHITE-CLAY													
	ANDHRA PRADESH	1	--	--	--	--	10	--	--	--	10	--	200
	RAJASTHAN	1	--	--	--	--	35200	--	--	--	35200	--	--
TOTAL : CHINA CLAY,CLAY,WHITE-		2	--	--	--	--	35210	--	--	--	35210	--	200
6. CHROMITE													
	KARNATAKA	1	--	--	--	--	637	--	--	--	637	4280	--
	ORISSA	13	--	--	--	414648	48747	--	--	--	463395	131969	1295

STATEMENT NO. 3.2 (CONT..)

(IN KILOGRAMS)

Sl. No.	Mineral / State	No. of Mines Using Explosives	N. G. Based		A. N. Based	Slurries		Boosters	Liquid Oxygen	Gun Powder	Total amount of explosives used	Detonators (In Numbers)	
			Large Diameter	Small Diameter		Large Diameter	Small Diameter					Electric	Ordinary
1	2	3	4	5	6	7	8	9	10	11	12	13	14
TOTAL : CHROMITE		14	--	--	--	414648	49384	--	--	--	464032	136249	1295
7. COPPER													
JHARKHAND		2	--	7150	--	16030	85161	--	--	--	108341	246948	230
MADHYA PRADESH		1	--	--	--	2798794	--	--	--	--	2798794	38	1981
RAJASTHAN		2	--	--	308500	135150	226305	--	--	--	669955	--	--
TOTAL : COPPER		5	--	7150	308500	2949974	311466	--	--	--	3577090	246986	2211
8. DIAMOND													
MADHYA PRADESH		1	--	--	--	95000	--	--	--	--	95000	--	86
9. DOLOMITE													
ANDHRA PRADESH		2	--	--	125300	6900	2105	--	--	--	134305	7030	1600
CHHATTISGARH		10	--	--	334708	270722	768102	--	--	--	1373532	343669	54622
JHARKHAND		1	--	--	--	63125	--	--	--	--	63125	836	--
KARNATAKA		4	--	--	9262	4243	308	--	--	--	13813	10658	3550
MADHYA PRADESH		3	--	--	--	60610	730	--	--	--	61340	7269	2521
MAHARASHTRA		3	--	--	--	1793	163	--	--	--	1956	2995	--
ORISSA		3	--	--	--	99600	96	--	--	--	99696	26977	266
TELANGANA		1	--	--	--	169800	--	--	--	--	169800	--	243
UTTAR PRADESH		1	--	--	--	8022	--	--	--	--	8022	--	--
TOTAL : DOLOMITE		28	--	--	469270	684815	771504	--	--	--	1925589	399434	62802
10. FELSPAR													
ANDHRA PRADESH		2	--	--	28200	--	15625	--	--	--	43825	216	8941
TELANGANA		2	--	1839	2200	--	--	--	--	--	4039	16456	--
TOTAL : FELSPAR		4	--	1839	30400	--	15625	--	--	--	47864	16672	8941
11. GALENA & SPHALARITE													
RAJASTHAN		10	--	--	468300	4541568	1067508	2154	--	--	6079530	357327	424686
12. GOLD													
JHARKHAND		1	--	--	--	--	8700	--	--	--	8700	22920	--
KARNATAKA		3	--	--	--	402828	105142	--	--	--	507970	95969	--
UTTARANCHAL		1	--	--	--	--	45	--	--	--	45	--	--
TOTAL : GOLD		5	--	--	--	402828	113887	--	--	--	516715	118889	--
13. GRANITE													
ANDHRA PRADESH		61	--	5950	397410	620526	140484	--	--	--	1164370	223862	1066

STATEMENT NO. 3.2 (CONT..)

(IN KILOGRAMS)

Sl. No.	Mineral / State	No. of Mines Using Explosives	N. G. Based		A. N. Based	Slurries		Boosters	Liquid Oxygen	Gun Powder	Total amount of explosives used	Detonators (In Numbers)	
			Large Diameter	Small Diameter		Large Diameter	Small Diameter					Electric	Ordinary
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	GOA	2	--	--	--	29908	1815	--	--	--	31723	90178	645
	KARNATAKA	15	--	240	--	58495	56450	--	--	6504	121689	383383	8312
	KERALA	25	--	--	33096	152596	130564	--	--	--	316256	890859	49733
	MADHYA PRADESH	1	--	--	--	--	2600	--	--	--	2600	30800	--
	ORISSA	1	--	--	--	--	496	--	--	--	496	2128	--
	TELANGANA	3	--	500	--	--	3372	--	--	--	3872	28496	--
	TAMIL NADU	64	--	19282	--	484169	226429	--	--	12242	742122	148391	32581
	UTTAR PRADESH	3	--	--	--	9156	--	--	--	--	9156	89945	--
	WEST BENGAL	2	--	--	--	8276	--	--	--	--	8276	60600	--
TOTAL : GRANITE		177	--	25972	430506	1363126	562210	--	--	18746	2400560	1948642	92337
14. GRAPHITE													
	TAMIL NADU	1	--	--	--	709625	11625	--	--	--	721250	--	204
15. GYPSUM													
	JAMMU & KASHMIR	3	2904	3440	--	--	932	--	--	--	7276	--	20690
16. IRON													
	ANDHRA PRADESH	3	--	--	--	26155	--	575	--	--	26730	306	42953
	CHHATTISGARH	11	1715	--	--	8668705	9002	--	--	--	8679422	--	5366
	GOA	6	--	2220	--	124231	2652	--	--	--	129103	641	2713
	JHARKHAND	13	--	--	--	2347406	1102045	4380	--	--	3453831	2075	4228
	KARNATAKA	31	--	189	130370	181326	30555	194	62206	--	404840	1303	29166
	MAHARASHTRA	2	--	--	--	112280	65546	--	--	--	177826	--	34564
	ORISSA	49	53300	293	458500	3350258	98719	49502	--	--	4010572	108326	181835
	RAJASTHAN	1	--	--	--	365159	1743844	4845	--	--	2113848	1683	11750
TOTAL : IRON		116	55015	2702	588870	15175520	3052363	59496	62206	--	18996172	114334	312575
17. LATERITE													
	RAJASTHAN	1	--	--	91950	60625	--	--	--	--	152575	7561	--
18. LIMESTONE													
	ANDAMAN & NICOBAR IS	2	--	7526	--	2249	--	--	--	--	9775	15723	84
	ANDHRA PRADESH	32	--	--	2410081	1127777	28599	31697	--	21600	3619754	88033	37309
	ASSAM	3	--	--	--	177430	7175	--	--	--	184605	17402	--
	BIHAR	1	--	--	--	36186	1554	--	--	--	37740	--	297
	CHHATTISGARH	18	--	--	302440	4840224	714021	8305	--	--	5864990	71017	65807
	GUJARAT	19	--	--	1049709	298100	14669	108025	--	--	1470503	62434	17988
	HIMACHAL PRADESH	23	--	5555	515535	102790	113841	35	--	--	737756	2427	138199
	JHARKHAND	10	--	196	2302	465118	16073	--	--	--	483689	58314	69705
	JAMMU & KASHMIR	1	--	--	--	12000	--	--	--	--	12000	--	--
	KARNATAKA	35	--	55	1682659	2452191	60759	15600	--	--	4211264	113602	50997
	KERALA	1	--	--	101200	58850	82260	--	--	--	242310	18732	--
	MEGHALAYA	8	--	--	697350	588666	8770	--	--	--	1294786	22178	31343

STATEMENT NO. 3.2 (CONT..)

(IN KILOGRAMS)

Sl. No.	Mineral / State	No. of Mines Using Explosives	N. G. Based		A. N. Based	Slurries		Boosters	Liquid Oxygen	Gun Powder	Total amount of explosives used	Detonators (In Numbers)	
			Large Diameter	Small Diameter		Large Diameter	Small Diameter					Electric	Ordinary
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	MADHYA PRADESH	52	--	370	2899024	6284374	67710	666	--	815	9252959	560415	439195
	MAHARASHTRA	9	--	--	429550	1763043	4529	--	--	--	2197122	19970	167
	ORISSA	13	--	--	545400	1089818	95547	2404	--	--	1733169	340197	636
	RAJASTHAN	66	--	10222	10787013	5104177	123183	17361	--	--	16041956	121882	239721
	TELANGANA	36	--	7838	3387968	1920928	92858	74982	--	--	5484574	219900	183134
	TAMIL NADU	31	--	2033	1890163	1544252	39276	--	--	--	3475724	154728	123155
	UTTARANCHAL	2	--	385	--	3070	427	--	--	--	3882	--	14934
	UTTAR PRADESH	1	--	--	--	613050	104	--	--	--	613154	3158	42078
TOTAL : LIMESTONE		363	--	34180	26700394	28484293	1471355	259075	--	22415	56971712	1890112	1454749
19. MAGNESITE													
	JHARKHAND	1	--	--	--	--	29	--	--	--	29	--	240
	KARNATAKA	1	--	--	--	9133	1345	--	--	--	10478	4574	10944
	TAMIL NADU	4	--	708	82612	92515	9959	--	--	--	185794	69463	8818
	UTTARANCHAL	1	--	--	--	18100	9396	--	--	--	27496	2486	30966
TOTAL : MAGNESITE		7	--	708	82612	119748	20729	--	--	--	223797	76523	50968
20. MANGANESE													
	ANDHRA PRADESH	10	--	14	--	12475	11695	--	--	--	24184	4744	31674
	GOA	1	--	--	--	--	40	--	--	--	40	--	282
	KARNATAKA	6	--	--	76950	3995	23302	--	--	--	104247	--	5097
	MADHYA PRADESH	21	--	--	--	448944	36091	--	--	--	485035	432915	83197
	MAHARASHTRA	17	--	--	157700	1396865	51879	--	--	--	1606444	258010	469172
	ORISSA	16	--	872	--	358972	63172	--	--	--	423016	3019	8012
TOTAL : MANGANESE		71	--	886	234650	2221251	186179	--	--	--	2642966	698688	597434
21. MARBLE													
	GUJARAT	2	--	--	--	2828	887	--	--	--	3715	--	12973
	MADHYA PRADESH	3	--	--	--	--	8051	--	--	--	8051	--	1313
	RAJASTHAN	6	--	--	--	44710	3343	2979	--	--	51032	--	10147
TOTAL : MARBLE		11	--	--	--	47538	12281	2979	--	--	62798	--	24433
22. MICA													
	ANDHRA PRADESH	14	--	25	--	14359	15871	750	--	--	31005	54011	82964
	BIHAR	4	--	301	--	--	2856	--	--	--	3157	7138	15165
	JHARKHAND	1	--	246	--	--	--	--	--	--	246	--	1980
TOTAL : MICA		19	--	572	--	14359	18727	750	--	--	34408	61149	100109

STATEMENT NO. 3.2 (CONT..)

(IN KILOGRAMS)

Sl. No.	Mineral / State	No. of Mines Using Explosives	N. G. Based		A. N. Based	Slurries		Boosters	Liquid Oxygen	Gun Powder	Total amount of explosives used	Detonators (In Numbers)	
			Large Diameter	Small Diameter		Large Diameter	Small Diameter					Electric	Ordinary
1	2	3	4	5	6	7	8	9	10	11	12	13	14
23. QUARTZ													
	ANDHRA PRADESH	3	--	--	--	--	4379	--	--	28	4407	8261	--
	CHHATTISGARH	3	--	--	--	--	8821	--	--	--	8821	36600	--
	JHARKHAND	1	--	--	--	--	2275	--	--	--	2275	8525	--
	ORISSA	2	--	--	--	6446	--	--	--	--	6446	11377	--
	RAJASTHAN	1	--	--	--	--	5365	--	--	--	5365	--	7260
	TELANGANA	4	--	--	--	--	10216	--	--	--	10216	11262	500
	TAMIL NADU	4	--	740	2575	135	918	--	--	299	4667	4433	1683
	WEST BENGAL	1	--	--	--	--	950	--	--	--	950	2493	--
TOTAL : QUARTZ		19	--	740	2575	6581	32924	--	--	327	43147	82951	9443
24. SANDSTONE													
	RAJASTHAN	1	--	--	26550	11470	--	--	--	--	38020	648	55867
	UTTAR PRADESH	1	--	--	--	19443	--	--	--	--	19443	3602	--
TOTAL : SANDSTONE		2	--	--	26550	30913	--	--	--	--	57463	4250	55867
25. SILICA													
	HARYANA	14	2652	12669	462782	7975	11514	--	--	--	497592	36523	304546
	MAHARASHTRA	2	--	582	--	--	312	--	--	--	894	7118	--
	RAJASTHAN	4	--	--	26221	4180	5158	--	--	--	35559	131	6263
TOTAL : SILICA		20	2652	13251	489003	12155	16984	--	--	--	534045	43772	310809
26. SILLIMANITE													
	MAHARASHTRA	1	--	--	--	2799	--	--	--	--	2799	--	--
27. STEATITE													
	ANDHRA PRADESH	4	--	915	3445	1500	1385	--	--	--	7245	13925	--
	JHARKHAND	1	--	930	--	--	--	--	--	--	930	4640	--
	MADHYA PRADESH	3	--	3537	10169	--	--	--	--	--	13706	2690	52025
	ORISSA	1	--	--	2617	--	--	--	--	--	2617	17450	--
	RAJASTHAN	25	--	2013	540005	308211	108509	4813	--	--	963551	15759	391069
	UTTAR PRADESH	1	--	--	--	1416	--	--	--	--	1416	7500	--
TOTAL : STEATITE		35	--	7395	556236	311127	109894	4813	--	--	989465	61964	443094
28. STONE													
	ANDHRA PRADESH	7	--	--	--	130930	56973	--	--	--	187903	19904	17026
	BIHAR	4	--	965	--	14700	2355	--	--	--	18020	21508	--
	GOA	7	--	--	9100	99448	18756	--	--	--	127304	109670	--
	GUJARAT	4	--	1725	34480	11770	13782	--	--	--	61757	31155	20076
	HARYANA	12	22368	3657	1134107	11825	39216	7607	--	--	1218780	1207695	227889

STATEMENT NO. 3.2 (CONT..)

(IN KILOGRAMS)

Sl. No.	Mineral / State	No. of Mines Using Explosives	N. G. Based		A. N. Based	Slurries		Boosters	Liquid Oxygen	Gun Powder	Total amount of explosives used	Detonators (In Numbers)	
			Large Diameter	Small Diameter		Large Diameter	Small Diameter					Electric	Ordinary
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	JHARKHAND	81	--	18891	35944	411415	147812	13300	--	--	627362	702531	19875
	KARNATAKA	4	--	--	--	3850	26988	--	--	--	30838	57871	570
	KERALA	15	--	--	--	85722	165643	--	--	--	251365	530038	285689
	MAHARASHTRA	10	--	100	43240	232227	15584	--	--	--	291151	83162	24014
	ORISSA	2	--	6703	--	--	185	--	--	--	6888	40957	--
	RAJASTHAN	3	8400	--	10000	12000	1300	--	--	--	31700	10100	14700
	TELANGANA	2	--	--	--	2900	65455	--	--	--	68355	10520	520
	TAMIL NADU	10	--	4020	157350	86375	40505	--	--	--	288250	167809	201
	WEST BENGAL	36	--	207	14000	179583	105476	--	--	--	299266	490758	2730
TOTAL : STONE		197	30768	36268	1438221	1282745	700030	20907	--	--	3508939	3483678	613290
29. WOLLASTONITE													
	RAJASTHAN	1	--	--	79550	2783	1735	--	--	--	84068	38298	--
TOTAL : METALLIFEROUS		1183	91339	146107	34143700	60670965	9830838	440959	62206	41488	105427602	9904746	4780502

SECTION – IV

ACCIDENT

STATEMENT NO. 4.0

Codes for classification of accidents by cause and place of occurrence

Code	Cause of Accident	Code	Cause of Accident
	Ground movement		Explosives
0111	Fall of roof	0551	Solid blasting projectiles
0112	Fall of sides (other than overhangs)	0552	Deep hole blasting projectiles
0113	Fall of overhang	0553	Secondary blasting projectiles
0114	Rock burst/bumps	0554	Other projectiles
0115	Air blast	0555	Misfires/sockets (while drilling into)
0116	Premature collapse of workings/pillars	0556	Misfire/socket (other than drilling into)
0117	Subsidence	0557	Delayed ignition
0118	Landslide	0558	Blown through shots
0119	Collapse of shaft	0559	Other explosive accident
	Transportation machinery (winding)		Electricity
0221	Overwinding of cages/skip, etc. (upgoing)	0661	Overhead lines
0222	Breakage of rope, chain, draw/suspn. gear	0662	Trailing cables
0223	Falls of persons from cages, skip, etc.	0663	Switch gears, gate end boxes, pommel, etc.
0224	Falling of objects from cages, skip, etc.	0664	Energized machines
0225	Hit by cages, skip, etc.	0665	Power cables other than trailing cables
0228	Overwinding of cages/skip (downgoing)	0669	Other electrical accidents
0229	Other accident due to winding operation		Dust, gas & other combustible material
	Transportation machinery (non winding)	0771	Occurrence of gas
0331	Aerial ropeway	0772	Influx of gas
0332	Rope haulage	0774	Explosion/ignition of gas/dust, etc.
0333	Other rail transportation	0775	Outbreak of fire or spontaneous heating
0334	Conveyors	0776	Well blowout (with fire)
0335	Dumpers	0777	Well blowout (without fire)
0336	Wagon movements	0778	Other combustible material
0339	Wheeled trackless (truck, tanker, etc.)	0779	Other accidents due to dust/gas/fire
	Machinery other than transp. machinery		Falls (other than fall of ground)
0441	Drilling machines	0881	Fall of person from height/into depth
0442	Cutting machines	0882	Fall of persons on the same level
0443	Loading machines	0883	Fall of objects incl. rolling objects
0444	Haulage engine	0889	Other accident due to falls
0445	Winding engine		Other causes
0446	Shovel, dragline, frontend loader, etc.	0991	Irruption of water
0447	Crushing & screening plants	0992	Flying pieces (except due to explosives)
0448	Other heavy earth moving machinery	0993	Drowning in water
0449	Other non-transportation machinery	0994	Buried in sands, etc.
		0995	Bursting/leakage of oil pipe lines
		0999	Unclassified

Statement 4.0 (Continued)

Code	Place of Accident	Code	Place of Accident
BELOW GROUND			OPENCAST
	Development area		Benches
111	< 10m of development face	211	Waste/overburden alluvium
112	> 10m and within working district	212	Waste/overburden float
	Long wall panel	213	Waste/overburden hard rock
121	> 10m of long wall face	214	Coal/ore benches
122	Gate roads in long wall panels		Quarry (other than benches)
	Depillaring / stoping	221	Top of the quarry
131	< 10m of face	222	Bed of the quarry
132	> 10m but < 30m		Roads
133	> 30m but within working district	231	Haul roads
	Outside working district	232	Rope haulage roads
141	Traveling roadways	239	Other transportation roads
149	Unclassified		Other open cast places
	Tramming roadways	241	Waste dump
151	Within district	249	Other places (specify)
152	Outside district		ABOVE GROUND
	Haulage roadways (within district)		Transportation road/sites
161	Rope haulage roadways	311	Aerial ropeways
162	Conveyor roadways	312	Rope haulage roads
163	Loco roadways	313	Wheeled trackless transportation roads
169	Unclassified	314	Railway lines belonging to mines
	Haulage roadways (outside district)	315	Petroleum pipelines
171	Rope haulage roadways	319	Unclassified
172	Conveyor roadways		Plant sites
173	Loco roadways	321	Site of ore handling plants
179	Unclassified	322	Workshop, powerhouse, engine room, etc.
180	Shaft	323	Erection/rigging site
199	Other below ground places	324	Gas col stn/gas comp stn/group gather.
		325	Oil wells/water inject wells
		329	Unclassified
			Other above ground places
		331	Depot
		332	Waste dump
		333	Water reservoir
		339	Unclassified

STATEMENT NO. 4.1

Trend in accidents, resultant casualties and rates

Mineral	Year	Fatal Accidents			Serious Accidents		Rates per 1000 persons employed	
		No. of Accidents	No. of persons		No. of Accidents	No. of persons S/Injured	Death	Serious
1	2	3	4	5	6	7	8	9
COPPER	2005	-	-	-	4	4	-	2.07
	2006	-	-	-	-	-	-	-
	2007	-	-	-	1	1	-	0.41
	2008	1	1	2	3	3	0.38	1.91
	2009	1	1	-	5	8	0.33	2.61
	2010	-	-	-	3	3	-	1.03
	2011	1	1	0	8	8	0.31	2.44
	2012	1	1	0	2	2	0.26	0.53
	2013	0	0	0	7	8	0.00	2.14
	2014	1	1	0	1	1	0.27	0.27
	2015	1	1	0	2	2	0.39	0.79
GALENA	2005	1	1	-	24	24	0.31	7.43
	2006	1	1	-	12	12	0.31	3.66
	2007	1	1	-	14	14	0.30	4.24
	2008	2	4	1	21	22	1.22	7.03
	2009	-	-	-	24	28	-	8.33
	2010	1	1	-	7	7	0.29	2.01
	2011	3	4	4	15	16	1.00	5.01
	2012	-	-	-	6	6	-	1.48
	2013	3	3	0	10	10	0.67	2.23
	2014	2	2	1	12	12	0.35	2.26
	2015	3	3	0	4	4	0.59	0.79
GOLD	2005	-	-	-	10	10	-	3.21
	2006	1	1	1	9	9	0.32	3.19
	2007	1	1	-	6	17	0.33	5.55
	2008	-	-	-	9	9	-	2.94
	2009	1	1	-	15	15	0.49	7.40
	2010	-	-	-	11	11	-	3.62
	2011	-	-	-	-	-	-	-
	2012	-	-	-	-	-	-	-
	2013	1	1	0	2	2	0.29	0.59
	2014	0	0	0	2	2	0.00	0.54
	2015	1	1	0	4	4	1.73	1.11
IRON	2005	15	16	2	34	34	0.43	0.96
	2006	15	21	1	21	21	0.51	0.53
	2007	14	14	4	22	23	0.34	0.65
	2008	11	11	1	19	20	0.25	0.47
	2009	8	8	-	20	20	0.17	0.42
	2010	9	11	-	9	9	0.23	0.19

Statement 4.1(Coninued...)

Mineral	Year	Fatal Accidents			Serious Accidents		Rates per 1000 persons employed	
		No. of Accidents	No. of persons Killed	S/Injured	No. of Accidents	No. of persons S/Injured	Death	Serious
1	2	3	4	5	6	7	8	9
IRON(Contd.....)	2011	4	4	0	19	19	0.08	0.36
	2012	3	3	0	6	6	0.05	0.11
	2013	4	5	0	6	6	0.09	0.11
	2014	3	3	1	9	14	0.06	0.30
	2015	5	5	0	8	9	0.10	0.17
LIMESTONE	2005	7	7	-	9	9	0.27	0.35
	2006	12	15	1	6	6	0.59	0.27
	2007	9	13	2	7	7	0.47	0.32
	2008	9	9	-	3	3	0.32	0.11
	2009	2	2	-	4	4	0.07	0.14
	2010	4	5	-	3	4	0.18	0.14
	2011	4	4	0	5	5	0.14	0.17
	2012	4	4	0	4	4	0.13	0.13
	2013	3	3	0	3	3	0.09	0.09
	2014	4	4	2	3	3	0.12	0.15
	2015	5	5	0	1	1	0.13	0.03
MANGANESE	2005	-	-	-	5	5	-	0.34
	2006	2	2	3	7	8	0.15	0.84
	2007	1	1	-	5	5	0.07	0.37
	2008	3	4	-	2	2	0.30	0.15
	2009	-	-	-	2	2	-	0.15
	2010	2	2	-	-	-	0.14	-
	2011	3	3	1	2	2	0.19	0.19
	2012	4	4	0	5	5	0.24	0.30
	2013	2	2	0	0	0	0.11	0.00
	2014	1	1	0	1	1	0.05	0.05
	2015	1	1	0	1	1	0.04	0.04
TOTAL :	2005	47	51	4	93	94	0.36	0.7
METALLIFEROUS	2006	54	67	9	63	64	0.47	0.51
	2007	53	61	13	63	76	0.42	0.69
	2008	49	67	33	63	65	0.43	0.63
	2009	33	41	3	76	83	0.26	0.54
	2010	50	87	4	45	47	0.53	0.31
	2011	41	47	9	65	67	0.27	0.44
	2012	34	36	5	35	35	0.21	0.19
	2013	54	69	12	37	38	0.37	0.27
	2014	34	40	10	34	40	0.22	0.27
	2015	41	43	3	22	23	0.22	0.13

Statement 4.1(Continued...)

Mineral	Year	Fatal Accidents			Serious Accidents		Rates per 1000 persons employed	
		No. of Accidents	No. of persons Killed	S/Injured	No. of Accidents	No. of persons S/Injured	Death	Serious
1	2	3	4	5	6	7	8	9
OIL	2005	1	1	0	15	15	0.05	0.78
	2006	4	4	0	15	15	0.29	1.08
	2007	3	3	0	16	16	0.16	0.83
	2008	5	6	2	20	20	0.25	0.93
	2009	3	3	0	18	18	0.12	0.72
	2010	4	4	1	16	16	0.14	0.58
	2011	3	3	0	17	17	0.11	0.62
	2012	2	2	0	10	10	0.09	0.44
	2013	4	5	3	15	15	0.19	0.69
	2014	5	5	0	10	10	0.20	0.40
	2015	4	5	10	13	15	0.18	0.88
TOTAL : NON-COAL	2005	48	52	4	108	109	0.32	0.71
	2006	58	71	9	78	79	0.45	0.56
	2007	56	64	13	79	92	0.37	0.61
	2008	54	73	35	83	85	0.41	0.67
	2009	36	44	3	94	101	0.24	0.56
	2010	54	91	5	61	63	0.47	0.35
	2011	44	50	9	82	84	0.25	0.46
	2012	36	38	5	45	45	0.19	0.25
	2013	58	74	15	52	53	0.35	0.32
	2014	39	45	10	44	50	0.24	0.32
	2015	45	48	13	35	38	0.22	0.23

Note: Fatal as well as serious accidents are considered in computation of rates for serious injury in this statement as well as in subsequent statements wherever rates for serious injury are presented.

STATEMENT NO. 4.2

Trend in accident rates and placewise death and serious injury rates

Mineral	Year	Accident rate per thousand persons employed		Death rate per thousand persons employed				Serious injury rate per thousand persons employed			
		Fatal	Serious	Below-ground	Open-cast	Above-ground	Overall	Below-ground	Open-cast	Above-ground	Overall
1	2	3	4	5	6	7	8	9	10	11	12
COPPER	2005	-	2.07	-	-	-	-	-	12.9	-	2.07
	2006	-	-	-	-	-	-	-	-	-	-
	2007	-	0.41	-	-	-	-	0.62	-	-	0.41
	2008	0.38	1.15	-	-	1.36	0.38	0.61	-	5.42	1.91
	2009	0.33	1.63	0.53	-	-	0.33	2.11	15.69	-	2.61
	2010	-	1.03	-	-	-	-	1.77	-	-	1.03
	2011	0.27	2.15	-	-	0.83	0.31	3.84	-	0.83	2.44
	2012	0.26	0.53	0.48	-	-	0.26	0.48	-	0.69	0.53
	2013	-	1.87	-	-	-	-	2.40	-	2.09	2.14
	2014	0.27	0.27	0.41	-	-	0.27	-	4.59	-	0.27
	2015	0.39	0.79	0.58	-	-	0.39	-	1.15	-	0.79
GALENA	2005	0.31	7.43	-	-	0.68	0.31	13.46	-	6.75	7.43
	2006	0.31	3.66	0.85	-	-	0.31	5.92	8.77	1.14	3.66
	2007	0.30	4.25	0.87	-	-	0.30	6.10	-	3.95	4.24
	2008	0.61	6.42	0.83	-	1.86	1.22	6.66	-	9.32	7.03
	2009	-	7.14	-	-	-	-	14.14	2.07	5.60	8.33
	2010	0.29	2.01	-	-	0.59	0.29	1.54	4.13	1.76	2.01
	2011	0.75	3.75	-	1.41	1.52	1.00	5.32	1.41	6.09	5.01
	2012	-	1.48	-	-	-	-	2.92	1.41	0.50	1.48
	2013	0.67	2.23	0.85	-	0.47	0.67	2.56	-	1.87	2.23
	2014	0.35	2.09	0.77	-	-	0.35	3.44	3.37	0.45	2.26
	2015	0.59	0.79	0.58	12.99	-	0.59	0.87	-	0.65	0.79
GOLD	2005	-	3.21	-	-	-	-	5.83	-	0.64	3.21
	2006	0.32	2.87	0.63	-	-	0.32	4.39	-	1.3	3.19
	2007	0.33	1.96	0.66	-	-	0.33	9.91	-	1.29	5.55
	2008	-	2.94	-	-	-	-	3.43	-	2.49	2.94
	2009	0.49	7.40	-	-	0.65	0.49	22.04	-	2.62	7.40
	2010	-	3.62	-	-	-	-	3.91	-	3.33	3.62
	2011	-	-	-	-	-	-	-	-	-	-
	2012	-	-	-	-	-	-	-	-	-	-
	2013	0.29	0.59	0.59	-	-	0.29	1.18	-	-	0.59
	2014	0.00	0.54	-	-	-	-	1.16	-	-	0.54
	2015	0.28	1.11	-	-	0.61	0.28	1.73	-	0.61	1.11

Statement 4.2(Continued...)

Mineral	Year	Accident rate per thousand persons employed		Death rate per thousand persons employed				Serious injury rate per thousand persons employed			
		Fatal	Serious	Below-ground	Open-cast	Above-ground	Overall	Below-ground	Open-cast	Above-ground	Overall
1	2	3	4	5	6	7	8	9	10	11	12
IRON	2005	0.04	0.91	-	0.36	0.53	0.43	-	0.54	1.58	0.96
	2006	0.36	0.51	-	0.68	0.28	0.51	-	0.42	0.67	0.53
	2007	0.34	0.53	-	0.29	0.35	0.30	-	0.25	1.04	0.46
	2008	0.25	0.42	-	0.27	0.21	0.25	-	0.39	0.58	0.47
	2009	0.17	0.42	-	0.22	0.10	0.17	-	0.25	0.67	0.42
	2010	0.19	0.19	-	0.34	0.10	0.23	-	0.15	0.24	0.19
	2011	0.08	0.36	-	0.10	0.04	0.08	-	0.48	0.21	0.36
	2012	0.05	0.11	-	0.03	0.08	0.05	-	0.17	0.04	0.11
	2013	0.08	0.11	-	0.11	0.08	0.09	-	0.18	0.04	0.11
	2014	0.06	0.18	-	-	0.13	0.06	-	0.34	0.25	0.30
LIMESTONE	2005	0.27	0.35	-	0.3	0.17	0.27	-	0.25	0.69	0.35
	2006	0.47	0.23	-	0.65	0.35	0.59	-	0.1	0.88	0.27
	2007	0.32	0.25	-	0.51	0.32	0.47	-	0.23	0.65	0.32
	2008	0.32	0.11	-	0.32	0.31	0.32	-	0.09	0.16	0.11
	2009	0.07	0.14	-	0.09	-	0.07	-	0.14	0.15	0.14
	2010	0.14	0.11	-	0.23	-	0.18	-	0.14	0.16	0.14
	2011	0.14	0.17	-	0.13	0.16	0.14	-	0.18	0.16	0.17
	2012	0.13	0.13	-	0.17	-	0.13	-	0.13	0.16	0.13
	2013	0.09	0.09	-	0.12	-	0.09	-	0.08	0.13	0.09
	2014	0.12	0.09	-	0.16	-	0.12	-	0.19	-	0.15
MANGANESE	2005	-	0.34	-	-	-	-	0.71	0.13	0.5	0.34
	2006	0.15	0.53	-	0.29	-	0.15	2.75	0.44	0.27	0.84
	2007	0.07	0.37	-	-	0.25	0.07	1.51	-	0.25	0.37
	2008	0.22	0.15	0.77	0.14	0.26	0.30	-	-	0.52	0.15
	2009	-	0.15	-	-	-	-	0.44	-	0.27	0.15
	2010	0.14	-	0.92	-	-	0.14	-	-	-	-
	2011	0.19	0.13	0.70	0.13	-	0.19	1.05	-	-	0.19
	2012	0.24	0.30	0.69	0.12	0.19	0.24	1.74	-	-	0.30
	2013	0.11	-	0.38	0.12	-	0.11	-	-	-	-
	2014	0.05	0.05	0.35	-	-	0.05	0.35	-	-	0.05
	2015	0.04	0.04	0.20	-	-	0.04	0.20	-	-	0.04

Statement 4.2(Continued...)

Mineral	Year	Accident rate per thousand persons employed		Death rate per thousand persons employed				Serious injury rate per thousand persons employed			
		Fatal	Serious	Below-ground	Open-cast	Above-ground	Overall	Below-ground	Open-cast	Above-ground	Overall
1	2	3	4	5	6	7	8	9	10	11	12
TOTAL :	2005	0.38	0.68	0.38	0.43	0.23	0.36	3.41	0.3	0.99	0.7
METALLIFEROUS	2006	0.38	0.44	0.38	0.62	0.19	0.47	3.2	0.25	0.55	0.51
	2007	0.35	0.42	0.35	0.48	0.31	0.42	3.51	0.29	0.97	0.69
	2008	0.31	0.40	0.44	0.43	0.42	0.43	1.65	0.24	1.21	0.63
	2009	0.21	0.47	0.61	0.32	0.08	0.26	4.00	0.24	0.91	0.54
	2010	0.31	0.28	0.44	0.71	0.21	0.53	1.44	0.21	0.32	0.31
	2011	0.24	0.38	0.20	0.34	0.15	0.27	2.15	0.32	0.36	0.44
	2012	0.19	0.19	0.52	0.26	0.05	0.20	1.67	0.17	0.08	0.22
	2013	0.29	0.20	0.39	0.55	0.08	0.37	1.45	0.21	0.18	0.27
	2014	0.19	0.19	0.36	0.29	0.08	0.22	1.16	0.26	0.14	0.27
	2015	0.21	0.22	0.30	0.29	0.08	0.22	0.74	0.08	0.11	0.13
OIL	2005	0.05	0.78	-	-	0.05	0.05	-	-	0.78	0.78
	2006	0.29	1.08	-	-	0.29	0.29	-	-	1.08	1.08
	2007	0.16	0.83	-	-	0.16	0.16	-	-	0.83	0.83
	2008	0.21	0.85	-	-	0.25	0.25	-	-	0.93	0.93
	2009	0.12	0.72	-	-	0.12	0.12	-	-	0.72	0.72
	2010	0.14	0.55	-	-	0.14	0.14	-	-	0.58	0.58
	2011	0.11	0.62	-	-	0.11	0.11	-	-	0.62	0.62
	2012	0.09	0.44	-	-	0.09	0.09	-	-	0.44	0.44
	2013	0.15	0.58	-	-	0.19	0.19	-	-	0.69	0.69
	2014	0.20	0.40	-	-	0.20	0.20	-	-	0.40	0.40
	2015	0.14	0.46	-	-	0.18	0.18	-	-	0.88	0.88
TOTAL :	2005	0.29	0.68	0.38	0.43	0.17	0.32	3.41	0.3	0.93	0.71
NON-COAL	2006	0.37	0.50	0.38	0.62	0.21	0.45	3.2	0.25	0.67	0.56
	2007	0.33	0.46	0.35	0.48	0.22	0.37	3.51	0.29	0.70	0.61
	2008	0.30	0.46	0.44	0.43	0.37	0.41	1.65	0.24	1.12	0.67
	2009	0.19	0.51	0.60	0.32	0.09	0.24	4.34	0.19	0.64	0.56
	2010	0.28	0.32	0.44	0.71	0.18	0.47	1.44	0.21	0.41	0.35
	2011	0.22	0.41	0.20	0.34	0.14	0.25	2.15	0.32	0.44	0.46
	2012	0.18	0.22	0.52	0.26	0.06	0.19	1.67	0.17	0.18	0.25
	2013	0.27	0.25	0.39	0.55	0.11	0.35	1.45	0.21	0.33	0.32
	2014	0.21	0.24	0.36	0.29	0.15	0.24	1.16	0.28	0.25	0.32
	2015	0.20	0.16	0.29	0.29	0.11	0.22	0.74	0.08	0.34	0.23

STATEMENT NO. 4.3

Causewise trend in fatal accidents in non-coal mines

Cause / Year	2010	2011	2012	2013	2014	2015
1. GROUND MOVEMENT						
Fall of Roof	--	--	3 (3)	2 (2)	3 (3)	2 (2)
Fall of Side	14 (48)	7 (9)	10 (10)	13 (24)	5 (9)	5 (6)
Other Ground Movement	--	--	--	--	--	--
2. TRANSPORTATION MACHINERY (WINDING IN SHAFT)	--	1 (1)	--	1 (2)	2 (3)	2 (2)
3. TRANSPORTATION MACHINERY (OTHER THAN WINDING IN SHAFT)						
Rope Haulage	--	--	--	--	--	--
Wheeled Trackless Transp.	9 (10)	11 (12)	4 (4)	8 (8)	7 (7)	13 (13)
Other Transp. Machinery	3 (3)	--	1 (1)	3 (3)	--	2 (2)
4. MACHINERY OTHER THAN TRANSPORTATION MACHINERY	5 (5)	10 (10)	5 (5)	4 (4)	5 (5)	2 (2)
5. EXPLOSIVES	3 (3)	4 (7)	4 (4)	2 (3)	2 (3)	--
6. ELECTRICITY	1 (1)	--	--	2 (2)	3 (3)	2 (2)
7. GAS, DUST & OTHER COMBUSTIBLE MATERIAL	--	--	--	3 (4)	--	1 (2)
8. FALL (OTHER THAN FALLS OF GROUND)						
Fall of Persons	6 (8)	5 (5)	5 (5)	9 (10)	8 (8)	9 (10)
Fall of Objects	8 (8)	5 (5)	3 (3)	8 (9)	2 (2)	4 (4)
Other Falls	1 (1)	--	--	--	1 (1)	--
9. OTHER CAUSES						
Irruption of Water	--	--	--	--	--	--
Flying Pieces	1 (1)	1 (1)	1 (3)	2 (2)	--	2 (2)
Miscellaneous	3 (3)	--	--	1 (1)	1 (1)	1 (1)
T O T A L	54 (91)	44 (50)	36 (38)	58 (74)	39 (45)	45 (48)
BELOW GROUND :	4 (4)	2 (2)	5 (5)	4 (4)	4 (4)	4 (4)
OPENCAST :	35 (72)	32 (36)	26 (28)	45 (60)	25 (31)	32 (34)
ABOVE GROUND :	15 (15)	10 (12)	5 (5)	9 (10)	10 (10)	9 (10)

NOTE : Figures within parentheses denote the number of persons killed.

STATEMENT NO. 4.4

Causewise trend in serious accidents in non-coal mines

Cause / Year	2010	2011	2012	2013	2014	2015
1. GROUND MOVEMENT						
Fall of Roof	1 (1)	2 (2)	5 (5)	2 (2)	0 (1)	3 (3)
Fall of Side	0 (3)	3 (4)	3 (5)	0 (6)	0 (1)	2 (2)
Other Ground Movement	--	--	--	--	--	--
2. TRANSPORTATION MACHINERY (WINDING IN SHAFT)	2 (2)	2 (3)	3 (3)	0 (1)	2 (4)	1 (1)
3. TRANSPORTATION MACHINERY (OTHER THAN WINDING IN SHAFT)						
Rope Haulage	--	--	--	--	--	--
Wheeled Trackless Transp.	2 (2)	4 (8)	3 (3)	6 (8)	4 (9)	0 (1)
Other Transp. Machinery	3 (3)	6 (6)	--	--	2 (2)	1 (1)
4. MACHINERY OTHER THAN TRANSPORTATION MACHINERY	10 (10)	15 (15)	8 (8)	12 (12)	11 (13)	5 (5)
5. EXPLOSIVES	1 (3)	0 (4)	1 (4)	0 (1)	0 (3)	--
6. ELECTRICITY	2 (2)	3 (4)	--	--	1 (1)	1 (2)
7. GAS, DUST & OTHER COMBUSTIBLE MATERIAL	2 (2)	--	--	0 (2)	2 (4)	1 (12)
8. FALL (OTHER THAN FALLS OF GROUND)						
Fall of Persons	13 (13)	22 (22)	8 (8)	11 (12)	10 (10)	5 (6)
Fall of Objects	16 (18)	18 (18)	12 (12)	16 (19)	9 (9)	9 (9)
Other Falls	2 (2)	1 (1)	--	1 (1)	--	--
9. OTHER CAUSES						
Irruption of Water	--	--	--	--	--	--
Flying Pieces	1 (1)	--	1 (1)	1 (1)	1 (1)	1 (2)
Miscellaneous	6 (6)	6 (6)	1 (1)	3 (3)	2 (2)	6 (7)
T O T A L	61 (68)	82 (93)	45 (50)	52 (68)	44 (60)	35 (51)
B E L O W G R O U N D :	12 (13)	20 (21)	16 (16)	15 (15)	12 (13)	10 (10)
O P E N C A S T :	16 (21)	30 (34)	15 (20)	11 (23)	18 (30)	5 (9)
A B O V E G R O U N D :	33 (34)	32 (38)	14 (14)	26 (30)	14 (17)	20 (32)

NOTE : Figures within parentheses denote the number of persons seriously injured. This also includes serious injury out of fatal accidents.

STATEMENT 4.5

Causewise trend in dangerous occurrences in non-coal mines

Sl.	Classification	2009	2010	2011	2012	2013	2014	2015
1	Overwinding of cages, Skip of bucket	1	-	-	-	-	-	-
2	Outbreak of fire- underground	-	-	-	2	-	1	1
3	Outbreak of fire on surface	1	2	1	3	-	4	-
4	Premature collapse of workings or failure of pillars	-	-	-	-	-	-	-
5	Breakage of winding rope	-	-	-	-	-	-	-
6	Breakdown of winding engine, crank shaft, bearing, etc.	-	-	-	-	-	-	-
7	Ignition or occurrence of inflammable gas	-	-	-	-	-	-	-
8	Breakage, fracture or failure of essential parts of machinery or apparatus whereby safety of persons were endangered	-	-	-	-	-	-	-
9	Rock burst	-	-	-	-	-	-	-
10	Irruption of water	-	-	1	-	1	-	1
11	Bursting of high-pressure equipment	-	-	-	-	-	-	-
12	Oil well blow out without fire	2	-	-	-	-	-	-
13	Others	4	2	4	5	1	1	7
TOTAL		8	4	6	10	2	6	9

STATEMENT NO. 4.6a

Accidents and placewise casualties in non-coal mines by state-district wise in 2015

Sl. No.	Mineral/State/District	Number of Accidents		Number of Persons Killed						Number of Persons Seriously Injured							
		Fatal	Serious	Below Ground		Opencast		Above Ground		Total	Below Ground		Opencast		Above Ground		Total
				Male	Female	Male	Female	Male	Female		Male	Female	Male	Female	Male	Female	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
1. OIL																	
ANDHRA PRADESH																	
EAST GODAVARI																1	
TOTAL : ANDHRA PRADESH		0	1	0	0	0	0	0	0	0	0	0	1	0	1		
ASSAM																	
DIBRUGARH																6	
SIBSAGAR																0	
TOTAL : ASSAM		1	6	0	0	0	1	0	1	0	0	0	6	0	6		
GUJARAT																	
BHARUCH																10	
GANDHINAGAR																1	
MEHASANA																7	
TOTAL : GUJARAT		1	6	0	0	0	2	0	2	0	0	0	18	0	18		
MADHYA PRADESH																	
SHAHDOL																0	
TOTAL : MADHYA PRADESH		1	0	0	0	0	1	0	1	0	0	0	0	0	0		
TRIPURA																	
WEST TRIPURA																0	
TOTAL : TRIPURA		1	0	0	0	0	1	0	1	0	0	0	0	0	0		
ALL INDIA : OIL		4	13	0	0	0	5	0	5	0	0	0	25	0	25		

Statement 4.6a (continued)

SI. No.	Mineral/State/District	Number of Accidents		Number of Persons Killed						Number of Persons Seriously Injured					
		Fatal	Serious	Below Ground		Opencast		Above Ground		Total	Below Ground		Opencast		Total
				Male	Female	Male	Female	Male	Female		Male	Female	Male	Female	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
2. ASBESTOS															
RAJASTHAN															
UDAIPUR		3	0	0	4	0	0	0	4	0	0	0	0	0	0
TOTAL : RAJASTHAN		3	0	0	4	0	0	0	4	0	0	0	0	0	0
ALL INDIA : ASBESTOS															
3. CHINA CLAY, CLAY, WHITE-CLAY															
JHARKHAND															
SAHEBGANJ		0	1	0	0	0	0	0	0	1	0	0	0	0	1
TOTAL : JHARKHAND		0	1	0	0	0	0	0	0	1	0	0	0	0	1
ALL INDIA : CHINA CLAY, CLAY, WHITE-CLAY															
4. COPPER															
RAJASTHAN															
JHUNJHUNU		1	2	1	0	0	0	0	1	2	0	0	0	0	2
TOTAL : RAJASTHAN		1	2	1	0	0	0	0	1	2	0	0	0	0	2
ALL INDIA : COPPER															
5. GALENA & SPHALARITE															
RAJASTHAN															
AJMER		1	0	1	0	0	0	0	1	0	0	0	0	0	0
BHILWARA		1	2	0	1	0	0	0	1	2	0	0	0	0	2

Statement 4.6a (continued)

Sl. No.	Mineral/State/District	Number of Accidents		Number of Persons Killed						Number of Persons Seriously Injured							
		Fatal	Serious	Below Ground		Opencast		Above Ground		Total	Below Ground		Opencast		Above Ground		Total
				Male	Female	Male	Female	Male	Female		Male	Female	Male	Female	Male	Female	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
	UDAIPUR	1	1	1	0	0	0	0	1	1	0	0	0	0	1		
	RAJSAMAND	0	1	0	0	0	0	0	0	0	0	0	1	0	1		
	TOTAL : RAJASTHAN	3	4	2	1	0	0	0	3	3	0	0	1	0	4		
	ALL INDIA : GALENA & SPHALARITE	3	4	2	1	0	0	0	3	3	0	0	1	0	4		
6.	GOLD																
	KARNATAKA																
	RAICHUR	1	4	0	0	0	1	0	1	3	0	0	1	0	4		
	TOTAL : KARNATAKA	1	4	0	0	0	1	0	1	3	0	0	1	0	4		
	ALL INDIA : GOLD	1	4	0	0	0	1	0	1	3	0	0	1	0	4		
7.	GRANITE																
	ANDHRA PRADESH																
	PRAKASHAM	3	0	0	3	0	0	0	3	0	0	0	0	0	0		
	TOTAL : ANDHRA PRADESH	3	0	0	3	0	0	0	3	0	0	0	0	0	0		
	KARNATAKA																
	BAGALKOT	1	0	0	1	0	0	0	1	0	1	0	0	0	1		
	TOTAL : KARNATAKA	1	0	0	1	0	0	0	1	0	1	0	0	0	1		
	ALL INDIA : GRANITE	4	0	0	4	0	0	0	4	0	1	0	0	0	1		

Statement 4.6a (continued)

Sl. No.	Mineral/State/District	Number of Accidents		Number of Persons Killed						Number of Persons Seriously Injured							
		Fatal	Serious	Below Ground		Opencast		Above Ground		Total	Below Ground		Opencast		Above Ground		Total
				Male	Female	Male	Female	Male	Female		Male	Female	Male	Female	Male	Female	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
8.	IRON																
	CHHATTISGARH																
	DANTEWARA	0	4	0	0	0	0	0	0	0	2	0	3	0	5		
	BALOD	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	
	TOTAL : CHHATTISGARH	1	4	0	0	0	1	0	1	0	2	0	3	0	5		
	JHARKHAND																
	WEST SINGBHUM	1	1	0	0	0	1	0	1	0	1	0	0	0	0	1	
	TOTAL : JHARKHAND	1	1	0	0	0	1	0	1	0	1	0	0	0	0	1	
	KARNATAKA																
	BELLARY	1	1	0	1	0	0	0	1	0	0	0	1	0	1		
	TOTAL : KARNATAKA	1	1	0	1	0	0	0	1	0	0	0	1	0	1		
	ORISSA																
	KEONJHAR	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	
	SUNDERGARH	2	0	0	1	0	1	0	2	0	0	0	0	0	0	0	
	TOTAL : ORISSA	2	1	0	1	0	1	0	2	0	1	0	0	0	0	1	
	RAJASTHAN																
	BHILWARA	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	
	TOTAL : RAJASTHAN	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	
	ALL INDIA : IRON	5	8	0	2	0	3	0	5	0	5	0	4	0	9		
9.	LIMESTONE																
	ANDHRA PRADESH																
	RANGA REDDY	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	
	TOTAL : ANDHRA PRADESH	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	

Statement 4.6a (continued)

Sl. No.	Mineral/State/District	Number of Accidents		Number of Persons Killed						Number of Persons Seriously Injured						
				Below Ground		Opencast		Above Ground		Total	Below Ground		Opencast		Above Ground	
		Fatal	Serious	Male	Male	Female	Male	Female	Male		Male	Female	Male	Female	Male	Female
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
	HIMACHAL PRADESH															
	BILASPUR	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1
	TOTAL : HIMACHAL PRADESH	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1
	RAJASTHAN															
	KOTA	2	0	0	2	0	0	0	2	0	0	0	0	0	0	0
	TOTAL : RAJASTHAN	2	0	0	2	0	0	0	2	0	0	0	0	0	0	0
	TAMILNADU															
	TIRUNELVELI	2	0	0	2	0	0	0	2	0	0	0	0	0	0	0
	TOTAL : TAMILNADU	2	0	0	2	0	0	0	2	0	0	0	0	0	0	0
	ALL INDIA : LIMESTONE	5	1	0	5	0	0	0	5	0	1	0	0	0	0	1
10.	MAGNESITE															
	TAMILNADU															
	SALEM	2	0	0	2	0	0	0	2	0	1	0	0	0	0	1
	TOTAL : TAMILNADU	2	0	0	2	0	0	0	2	0	1	0	0	0	0	1
	ALL INDIA : MAGNESITE	2	0	0	2	0	0	0	2	0	1	0	0	0	0	1
11.	MANGANESE															
	MADHYA PRADESH															
	BALAGHAT	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1
	TOTAL : MADHYA PRADESH	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1
	MAHARASHTRA															
	BHANDARA	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0

Statement 4.6a (continued)

Sl. No.	Mineral/State/District	Number of Accidents		Number of Persons Killed						Number of Persons Seriously Injured							
		Fatal	Serious	Below Ground		Opencast		Above Ground		Total	Below Ground		Opencast		Above Ground		Total
				Male	Female	Male	Female	Male	Female		Male	Female	Male	Female	Male	Female	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
	TOTAL : MAHARASHTRA	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	
	ALL INDIA : MANGANESE	1	1	1	0	0	0	0	0	1	1	0	0	0	0	1	
12.	MARBLE																
	RAJASTHAN																
	RAJSAMAND	8	0	0	8	0	0	0	8	0	0	0	0	0	0	0	
	TOTAL : RAJASTHAN	8	0	0	8	0	0	0	8	0	0	0	0	0	0	0	
	ALL INDIA : MARBLE	8	0	0	8	0	0	0	8	0	0	0	0	0	0	0	
13.	SANDSTONE																
	RAJASTHAN																
	NAGAUR	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	
	TOTAL : RAJASTHAN	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	
	ALL INDIA : SANDSTONE	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	
14.	SILICA																
	RAJASTHAN																
	KARAULI	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	
	TOTAL : RAJASTHAN	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	
	ALL INDIA : SILICA	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	

Statement 4.6a (continued)

Sl. No.	Mineral/State/District	Number of Accidents		Number of Persons Killed						Number of Persons Seriously Injured					
				Below Ground		Opencast		Above Ground		Total	Below Ground		Opencast		Above Ground
		Fatal	Serious	Male	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
15. SILLIMANITE															
KERALA															
KOLLAM		0	1	0	0	0	0	0	0	0	0	0	1	0	1
TOTAL : KERALA		0	1	0	0	0	0	0	0	0	0	0	1	0	1
<hr/>															
ALL INDIA : SILLIMANITE		0	1	0	0	0	0	0	0	0	0	0	1	0	1
<hr/>															
16. STONE															
ANDHRA PRADESH															
GUNTUR		1	0	0	2	0	0	0	2	0	0	0	0	0	0
TOTAL : ANDHRA PRADESH		1	0	0	2	0	0	0	2	0	0	0	0	0	0
<hr/>															
UTTAR PRADESH															
SONEBHADRA		5	0	0	5	0	0	0	5	0	1	0	0	0	1
TOTAL : UTTAR PRADESH		5	0	0	5	0	0	0	5	0	1	0	0	0	1
<hr/>															
ALL INDIA : STONE		6	0	0	7	0	0	0	7	0	1	0	0	0	1
<hr/>															
ALL INDIA : ALL NON-COAL MINERALS		45	35	4	34	0	10	0	48	10	9	0	32	0	51

STATEMENT NO. 4.6b

Placewise casualty rates by state-district wise in 2015

SI. No.	Mineral/State/District	Death Rate per Thousand Persons Employed				Serious Injury Rate per Thousand Persons Employed			
		B.G.	O.C.	A.G.	Overall	B.G.	O.C.	A.G.	Overall
1	2	3	4	5	6	7	8	9	10
1. OIL									
	ANDHRA PRADESH								
	EAST GODAVARI	0.55	0.55
	TOTAL : ANDHRA PRADESH	0.55	0.55
	ASSAM								
	DIBRUGARH	1.43	1.43
	SIBSAGAR	0.21	0.21
	TOTAL : ASSAM	0.11	0.11	0.65	0.65
	GUJARAT								
	BHARUCH	0.94	0.94	4.68	4.68
	GANDHINAGAR	15.63	15.63
	MEHASANA	1.60	1.60
	TOTAL : GUJARAT	0.21	0.21	1.93	1.93
	MADHYA PRADESH								
	SHAHDOL	4.37	4.37
	TOTAL : MADHYA PRADESH	4.37	4.37
	TRIPURA								
	WEST TRIPURA	3.28	3.28
	TOTAL : TRIPURA	3.28	3.28
ALL INDIA : OIL		0.18	0.18	0.88	0.88
2. ASBESTOS									
	RAJASTHAN								
	UDAIPUR		Employment figures not available				
	TOTAL : RAJASTHAN		Employment figures not available				
ALL INDIA : ASBESTOS			Employment figures not available				
3. CHINA CLAY, CLAY, WHITE-CLAY									
	JHARKHAND								
	SAHEBGANJ	31.25	2.34
	TOTAL : JHARKHAND	31.25	1.82
ALL INDIA : CHINA CLAY, CLAY, WHITE-CLAY		31.25	0.41
4. COPPER									
	RAJASTHAN								
	JHUNJHUNU	1.12	0.85	2.24	1.70
	TOTAL : RAJASTHAN	1.12	0.85	2.24	1.70
ALL INDIA : COPPER		0.58	0.39	1.15	0.79

Statement 4.6b (continued)

SI. No.	Mineral/State/District	Death Rate per Thousand Persons Employed				Serious Injury Rate per Thousand Persons Employed			
		B.G.	O.C.	A.G.	Overall	B.G.	O.C.	A.G.	Overall
1	2	3	4	5	6	7	8	9	10
5. GALENA & SPHALARITE									
RAJASTHAN									
AJMER		2.40	1.80
BHILWARA		...	12.99	...	0.89	2.46	1.78
UDAIPUR		0.94	0.57	0.94	0.57
RAJSAMAND		2.22	0.62	
TOTAL : RAJASTHAN		0.58	12.99	...	0.59	0.87	...	0.66	0.79
ALL INDIA : GALENA & SPHALARITE		0.58	12.99	...	0.59	0.87	...	0.65	0.79
6. GOLD									
KARNATAKA									
RAICHUR		0.62	0.28	1.78	...	0.62	1.14
TOTAL : KARNATAKA		0.62	0.28	1.78	...	0.62	1.14
ALL INDIA : GOLD		0.61	0.28	1.73	...	0.61	1.11
7. GRANITE									
ANDHRA PRADESH									
PRAKASHAM		...	0.65	...	0.48
TOTAL : ANDHRA PRADESH		...	0.61	...	0.45
KARNATAKA									
BAGALKOT		...	2.10	...	1.73	...	2.10	...	1.73
TOTAL : KARNATAKA		...	0.76	...	0.65	...	0.76	...	0.65
ALL INDIA : GRANITE		...	0.37	...	0.30	...	0.09	...	0.07
8. IRON									
CHHATTISGARH									
DANTEWARA		2.95	2.90	2.92
BALOD		Employment figures not available
TOTAL : CHHATTISGARH		0.30	0.14	...	0.51	0.90	0.69
JHARKHAND									
WEST SINGBHUM		0.19	0.13	...	0.41	...	0.13
TOTAL : JHARKHAND		0.19	0.13	...	0.41	...	0.13
KARNATAKA									
BELLARY		...	0.24	...	0.19	0.81	0.19
TOTAL : KARNATAKA		...	0.17	...	0.14	0.70	0.14
ORISSA									
KEONJHAR		0.17	...	0.07
SUNDERGARH		...	0.28	0.43	0.34

Statement 4.6b (continued)

SI. No.	Mineral/State/District	Death Rate per Thousand Persons Employed				Serious Injury Rate per Thousand Persons Employed			
		B.G.	O.C.	A.G.	Overall	B.G.	O.C.	A.G.	Overall
1	2	3	4	5	6	7	8	9	10
TOTAL : ORISSA		...	0.08	0.10	0.09	...	0.08	...	0.04
RAJASTHAN									
BHILWARA		1.89	...	1.15
TOTAL : RAJASTHAN		1.71	...	1.07
ALL INDIA : IRON		...	0.07	0.13	0.10	...	0.18	0.17	0.17
9. LIMESTONE									
ANDHRA PRADESH									
RANGA REDDY					Employment figures not available		
TOTAL : ANDHRA PRADESH		...	0.74	...	0.48
HIMACHAL PRADESH									
BILASPUR		28.57	...	15.15
TOTAL : HIMACHAL PRADESH		0.97	...	0.85
RAJASTHAN									
KOTA		...	0.41	...	0.37
TOTAL : RAJASTHAN		...	0.23	...	0.20
TAMILNADU									
TIRUNELVELI		...	6.43	...	5.78
TOTAL : TAMILNADU		...	1.01	...	0.88
ALL INDIA : LIMESTONE		...	0.17	...	0.13	...	0.03	...	0.03
10. MAGNESITE									
TAMILNADU									
SALEM		...	1.03	...	1.01	...	0.51	...	0.51
TOTAL : TAMILNADU		...	1.03	...	1.01	...	0.51	...	0.51
ALL INDIA : MAGNESITE		...	0.91	...	0.84	...	0.45	...	0.42
11. MANGANESE									
MADHYA PRADESH									
BALAGHAT		0.33	0.17
TOTAL : MADHYA PRADESH		0.33	0.16
MAHARASHTRA									
BHANDARA		1.00	0.22
TOTAL : MAHARASHTRA		0.48	0.14
ALL INDIA : MANGANESE		0.20	0.04	0.20	0.04

Statement 4.6b (continued)

SI. No.	Mineral/State/District	Death Rate per Thousand Persons Employed				Serious Injury Rate per Thousand Persons Employed			
		B.G.	O.C.	A.G.	Overall	B.G.	O.C.	A.G.	Overall
1	2	3	4	5	6	7	8	9	10
12. MARBLE									
	RAJASTHAN								
	RAJSAMAND	...	10.88	...	8.89
	TOTAL : RAJASTHAN	...	7.31	...	5.74
<hr/>									
ALL INDIA : MARBLE		...	5.60	...	4.41
<hr/>									
13. SANDSTONE									
	RAJASTHAN								
	NAGAUR		Employment figures not available			
	TOTAL : RAJASTHAN	...	5.29	...	4.55
<hr/>									
ALL INDIA : SANDSTONE		...	3.72	...	3.23
<hr/>									
14. SILICA									
	RAJASTHAN								
	KARAVLI		Employment figures not available			
	TOTAL : RAJASTHAN	3.07	2.04
<hr/>									
ALL INDIA : SILICA		1.04	0.34
<hr/>									
15. SILLIMANITE									
	KERALA								
	KOLLAM	2.73	2.64
	TOTAL : KERALA	2.73	2.64
<hr/>									
ALL INDIA : SILLIMANITE		0.53	0.28
<hr/>									
16. STONE									
	ANDHRA PRADESH								
	GUNTUR	...	76.92	...	68.97
	TOTAL : ANDHRA PRADESH	...	6.71	...	6.47
	UTTAR PRADESH								
	SONEBHADRA		Employment figures not available			
	TOTAL : UTTAR PRADESH		Employment figures not available			
<hr/>									
ALL INDIA : STONE		...	1.16	...	0.84	...	0.17	...	0.12
<hr/>									
ALL INDIA : ALL NON-COAL MINERALS		0.29	0.29	0.11	0.22	0.74	0.08	0.34	0.23
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STATEMENT NO. 4.7

Number of accidents and casualties/seriously injured persons in non-coal mines by place and detailed cause in 2015

CAUSE OF ACCIDENT	BELOW GROUND					OPEN CAST					ABOVE GROUND					TOTAL				
	Fatal Accident S/Accident					Fatal Accident S/Accident					Fatal Accident S/Accident					Fatal Accident S/Accident				
	ACC	KILL	INJ	ACC	INJ	ACC	KILL	INJ	ACC	INJ	ACC	KILL	INJ	ACC	INJ	ACC	KILL	INJ	ACC	INJ
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
CAUSE OF ACCIDENT	BELOW GROUND					OPEN CAST					ABOVE GROUND					TOTAL				
	Fatal Accident S/Accident					Fatal Accident S/Accident					Fatal Accident S/Accident					Fatal Accident S/Accident				
	ACC	KILL	INJ	ACC	INJ	ACC	KILL	INJ	ACC	INJ	ACC	KILL	INJ	ACC	INJ	ACC	KILL	INJ	ACC	INJ
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Copper	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
Galena & Sphalarite	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1
Gold	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Manganese	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
TOTAL : Fall of Roof	2	2	0	3	3	0	0	0	0	0	0	0	0	0	0	2	2	0	3	3
Asbestos	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	1	2	0	0	0
Copper	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Gold	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Iron	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
Magnesite	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
Manganese	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
Stone	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
TOTAL : Fall of Sides (Other than Overhangs)	1	1	0	2	2	4	5	0	0	0	0	0	0	0	0	5	6	0	2	2
TOTAL : GROUND MOVEMENT	3	3	0	5	5	4	5	0	0	0	0	0	0	0	0	7	8	0	5	5
China Clay, Clay, White-clay	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
TOTAL : Hit by Cages, Skip etc.	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Galena & Sphalarite	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
TOTAL : Overwinding of Cages/Skip (downgoing)	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0

Statement 4.7 (continued)

CAUSE OF ACCIDENT	BELOW GROUND					OPEN CAST					ABOVE GROUND					TOTAL				
	Fatal Accident S/Accident					Fatal Accident S/Accident					Fatal Accident S/Accident					Fatal Accident S/Accident				
	ACC	KILL	INJ	ACC	INJ	ACC	KILL	INJ	ACC	INJ	ACC	KILL	INJ	ACC	INJ	ACC	KILL	INJ	ACC	INJ
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Gold	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0
TOTAL : Other Accident due to Winding Operation	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0
TOTAL : TRANSPORTATION MACHINERY (WINDING)	1	1	0	1	1	0	0	0	0	0	1	1	0	0	0	2	2	0	1	1
Iron	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	0	1	1
TOTAL : Conveyors	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	0	1	1
Galena & Sphalerite	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
Granite	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
Iron	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
Limestone	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	3	3	0	0	0
Magnesite	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	1	0	0
Marble	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
TOTAL : Dumpers	0	0	0	0	0	8	8	1	0	0	0	0	0	0	0	8	8	1	0	0
Iron	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0
TOTAL : Wagon Movements	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0
Iron	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0
Limestone	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
Marble	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2	0	0	0
Sandstone	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
TOTAL : Wheeled Trackless (Truck, Tanker, etc.)	0	0	0	0	0	4	4	0	0	0	1	1	0	0	0	5	5	0	0	0
TOTAL : TRANSPORTATION MACHINERY (NON-WINDING)	0	0	0	0	0	12	12	1	0	0	3	3	0	1	1	15	15	1	1	1
Iron	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
TOTAL : Drilling Machines	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
Sillimanite	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1
TOTAL : Other Heavy Earth Moving Machinery	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1
Oil	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1

Statement 4.7 (continued)

CAUSE OF ACCIDENT	BELOW GROUND					OPEN CAST					ABOVE GROUND					TOTAL				
	Fatal Accident S/Accident					Fatal Accident S/Accident					Fatal Accident S/Accident					Fatal Accident S/Accident				
	ACC	KILL	INJ	ACC	INJ	ACC	KILL	INJ	ACC	INJ	ACC	KILL	INJ	ACC	INJ	ACC	KILL	INJ	ACC	INJ
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Galena & Sphalarite	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Iron	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
Stone	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2	0	0	0
TOTAL : Other Non-Transportation Machinery	0	0	0	1	1	2	2	0	1	1	0	0	0	1	1	2	2	0	3	3
TOTAL : MACHINERY OTHER THAN TRANSP. MACHINERY	0	0	0	1	1	2	2	0	2	2	0	0	0	2	2	2	2	0	5	5
Granite	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
Marble	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
TOTAL : Power Cables Other Than Trailing Cables	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2	0	0	0
Iron	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	1	2
TOTAL : Other Electrical Accidents	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	1	2
TOTAL : ELECTRICITY	0	0	0	0	0	2	2	0	1	2	0	0	0	0	0	2	2	0	1	2
Oil	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	1	2
TOTAL : Outbreak of Fire or Spontaneous Heating	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	1	2
Oil	0	0	0	0	0	0	0	0	0	0	1	2	10	0	0	1	2	10	0	0
TOTAL : Well Blowout (With Fire)	0	0	0	0	0	0	0	0	0	0	1	2	10	0	0	1	2	10	0	0
TOTAL : DUST, GAS & OTHER COMBUSTIBLE MATERIAL	0	0	0	0	0	0	0	0	0	0	1	2	10	1	2	1	2	10	1	2
Oil	0	0	0	0	0	0	0	0	0	0	1	1	0	4	4	1	1	0	4	4
Asbestos	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
Limestone	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
Marble	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	3	3	0	0	0
Stone	0	0	0	0	0	3	4	1	0	0	0	0	0	0	0	3	4	1	0	0
TOTAL : Fall of Person from Height/into Depth	0	0	0	0	0	8	9	1	0	0	1	1	0	4	4	9	10	1	4	4
Iron	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1
TOTAL : Fall of Persons on the Same Level	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1

Statement 4.7 (continued)

CAUSE OF ACCIDENT	BELOW GROUND					OPEN CAST					ABOVE GROUND					TOTAL				
	Fatal Accident S/Accident					Fatal Accident S/Accident					Fatal Accident S/Accident					Fatal Accident S/Accident				
	ACC	KILL	INJ	ACC	INJ	ACC	KILL	INJ	ACC	INJ	ACC	KILL	INJ	ACC	INJ	ACC	KILL	INJ	ACC	INJ
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Oil	0	0	0	0	0	0	0	0	0	0	2	2	0	2	2	2	2	0	2	2
Copper	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Galena & Sphalarite	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	2	2
Gold	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	2	2
Iron	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	2	2
Marble	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
Silica	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0
TOTAL : Fall of Objects incl. Rolling Objects	0	0	0	3	3	1	1	0	0	0	3	3	0	6	6	4	4	0	9	9
TOTAL : FALLS (OTHER THAN FALL OF GROUND)	0	0	0	3	3	9	10	1	0	0	4	4	0	11	11	13	14	1	14	14
Asbestos	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
Granite	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	1	0	0
Limestone	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
TOTAL : Flying Pieces(Except due to Explosives)	0	0	0	0	0	2	2	1	1	1	0	0	0	0	0	2	2	1	1	1
Granite	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
TOTAL : Drowning in Water	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
Oil	0	0	0	0	0	0	0	0	0	0	0	0	0	5	6	0	0	0	5	6
Iron	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
TOTAL : Unclassified	0	0	0	0	0	0	0	0	1	1	0	0	0	5	6	0	0	0	6	7
TOTAL : OTHER CAUSES	0	0	0	0	0	3	3	1	2	2	0	0	0	5	6	3	3	1	7	8
ALL INDIA : ALL NON-COAL MINERALS	4	4	0	10	10	32	34	3	5	6	9	10	10	20	22	45	48	13	35	38

STATEMENT NO. 4.8

Fatal accidents and casualties in non-coal mines by broad causes in 2015

Cause/Mineral	Oil	Copper	Galena	Gold	Iron	L/Stone	Manganese	Stone	Others	Total
Fall of Roof Killed-Injr :	--	1	1	--	--	--	--	--	--	2
	--	1- 0	1- 0	--	--	--	--	--	--	2- 0
Fall of Sides Killed-Injr :	--	--	--	--	1	--	1	1	2	5
	--	--	--	--	1- 0	--	1- 0	1- 0	3- 0	6- 0
Dumpers Killed-Injr :	--	--	1	--	1	3	--	--	3	8
	--	--	1- 0	--	1- 0	3- 0	--	--	3- 1	8- 1
Trucks Killed-Injr :	--	--	--	--	1	1	--	--	3	5
	--	--	--	--	1- 0	1- 0	--	--	3- 0	5- 0
Other Machinery Killed-Injr :	--	--	1	1	2	--	--	2	--	6
	--	--	1- 0	1- 0	2- 0	--	--	2- 0	--	6- 0
Fall of Persons Killed-Injr :	1	--	--	--	--	1	--	3	4	9
	1- 0	--	--	--	--	1- 0	--	4- 1	4- 0	10- 1
Fall of Objects Killed-Injr :	2	--	--	--	--	--	--	--	2	4
	2- 0	--	--	--	--	--	--	--	2- 0	4- 0
Other Causes Killed-Injr :	1	--	--	--	--	--	--	--	5	6
	2-10	--	--	--	--	--	--	--	5- 1	7-11
Below Ground Killed-Injr :	--	1	2	--	--	--	1	--	--	4
	--	1- 0	2- 0	--	--	--	1- 0	--	--	4- 0
Opencast Killed-Injr :	--	--	1	--	2	5	--	6	18	32
	--	--	1- 0	--	2- 0	5- 0	--	7- 1	19- 2	34- 3
Above Ground Killed-Injr :	4	--	--	1	3	--	--	--	1	9
	5-10	--	--	1- 0	3- 0	--	--	--	1- 0	10-10
TOTAL Killed-Injr :	4	1	3	1	5	5	1	6	19	45
	5-10	1- 0	3- 0	1- 0	5- 0	5- 0	1- 0	7- 1	20- 2	48-13

□

STATEMENT NO. 4.9

Serious accidents and seriously injured persons in non-coal mines by broad causes in 2015

Cause/Mineral	Oil	Copper	Galena	Gold	Iron	L/Stone	Manganese	Stone	Others	Total
Fall of Roof	--	--	1	1	--	--	1	--	--	3
Injured :	--	--	1	1	--	--	1	--	--	3
Fall of Sides	--	1	--	1	--	--	--	--	--	2
Injured :	--	1	--	1	--	--	--	--	--	2
Other Machinery	1	--	1	--	3	--	--	--	2	7
Injured :	1	--	1	--	3	--	--	--	2	7
Fall of Persons	4	--	--	--	1	--	--	--	--	5
Injured :	4	--	--	--	1	--	--	--	--	5
Fall of Objects	2	1	2	2	2	--	--	--	--	9
Injured :	2	1	2	2	2	--	--	--	--	9
Other Causes	6	--	--	--	2	1	--	--	--	9
Injured :	8	--	--	--	3	1	--	--	--	12
<hr/>										
Below Ground	--	2	3	3	--	--	1	--	1	10
Injured :	--	2	3	3	--	--	1	--	1	10
Opencast	--	--	--	--	4	1	--	--	--	5
Injured :	--	--	--	--	5	1	--	--	--	6
Above Ground	13	--	1	1	4	--	--	--	1	20
Injured :	15	--	1	1	4	--	--	--	1	22
<hr/>										
TOTAL	13	2	4	4	8	1	1	--	2	35
Injured :	15	2	4	4	9	1	1	--	2	38

STATEMENT NO. 4.10
Regionwise/Zonewise accidents in non-coal mines in 2015

Region / Zone	Fatal Accidents			Serious Accidents	
	Accident	Killed	Injured	Accident	Injured
Guwahati	2	2	--	6	6
Sitarampur III	--	--	--	1	1
Eastern Zone	2	2	--	7	7
Ahmedabad	--	--	--	6	8
Surat	1	2	10	--	--
Udaipur	12	13	--	2	2
North-Western Zone	13	15	10	8	10
Ajmer	4	4	--	5	5
Gwalior	1	1	--	--	--
Ghaziabad	1	1	--	1	1
Udaipur	1	1	--	--	--
Varanasi	5	5	1	--	--
Northern Zone	12	12	1	6	6
Hyderabad I	--	--	--	1	1
Hyderabad II	5	6	--	--	--
South-Central Zone	5	6	--	1	1
Chaibasa	3	3	--	2	2
South-Eastern Zone	3	3	--	2	2
Bangluru	1	1	--	1	1
Bellary	3	3	1	5	5
Chennai	3	3	1	--	--
Southern Zone	7	7	2	6	6
Bilaspur	1	1	--	4	5
Jabalpur	1	1	--	--	--
Nagpur I	1	1	--	1	1
Western Zone	3	3	--	5	6
ALL INDIA	45	48	13	35	38

STATEMENT NO. 4.11

Fatal accidents in non-coal mines by cause and responsibility in 2015

Responsibility / Major Cause Group	1	2	3	4	5	6	7	8	9	Total
Misadventure	-	-	-	-	-	-	-	1	-	1
Management	2	-	2	1	-	1	1	5	1	13
Management & Sub. Sup. Staff (SSS)	4	-	2	1	-	1	-	2	1	11
Management, SSS & Deceased	-	-	2	-	-	-	-	-	-	2
Management & Coworker	-	1	4	-	-	-	-	-	-	5
Management, Coworker & Deceased	-	1	-	-	-	-	-	-	-	1
Management & Deceased	-	-	-	-	-	-	-	2	-	2
Subordinate Supervisory Staff (SSS)	1	-	1	-	-	-	-	1	1	4
Coworker	-	-	2	-	-	-	-	1	-	3
Coworker & Deceased	-	-	1	-	-	-	-	-	-	1
Deceased	-	-	1	-	-	-	-	1	-	2
Total	7	2	15	2	0	2	1	13	3	45

□

STATEMENT NO. 4.12

Summary of Findings of Enquiries into Fatal Accidents in Non-Coal Mines during 2015

Code : 0100 Ground Movement

Code : 0111 Fall of Roof (2 Deaths)

While two drillers were connecting compressed air hose-pipe to jack hammer drill machine at a distance of 3.5m from the development face in an underground Metalliferous Mine, a mass of stone measuring about 1.0m(length) x 0.5m(width) x 0.35m (thick) fell from the unsupported roof from a height of about 4.0m on one of the drillers inflicting serious bodily injuries to him to which he succumbed after about seven hours.

Had the workings within 9.0m of the face been kept secured by rock bolts in accordance with the requirements of the Systematic Timbering Rules framed by the manager and approved vide this Directorate's letter No. 1882, dated 07.06.1988 and the face not been worked in contravention thereof, as required by Regulation 112(2) (C) of the Metalliferous Mines Regulations, 1961, this accident could have been averted.

2. Date - 28/11/15 Mine - KAYAD UNDERGROUND MINE
Time - 3.30 Owner - HINDUSTAN ZINC LTD.
Dist. - Ajmer, State - Rajasthan
Person(s) Killed :
1. Nana Lal Mali, Gen worker, Male, 24 Years

While a crew of four General Mazdoors standing on a scissor lift was charging ring holes in hanging wall drive of a stope, a mass of rock separated from the roof of the drive, supported in accordance with the SSR, broke into two pieces measuring about 1.5m x 0.7m x 0.3m and 1m x 0.4m x 0.25m in size and fell down over the platform of scissor lift from a height of about 1.5m, inflicting serious bodily injury to one of them to which he succumbed on way to hospital.

Had,

the roof been properly examined to ascertain the condition thereof as regards to the state of the roof, as required by Regulation 116(3)(b) read with Regulation 47(2)(a) of the Metalliferous Mines Regulations, 1961.

this accident could have been averted.

**Code : 0112 Fall of Sides (Other than Overhangs)
(6 Deaths)**

3. Date – 14/01/15

Time – 16.30

Mine – CHIKLA MANGANESE MINE

Owner – MANGANESE ORE [INDIA] LTD.

Dist. – Bhandara, State – Maharashtra

Person(s) Killed :

1. Saras Hariram, Piece Rated Worker, Male, 43 Years

While blasted muck was being removed manually in a stope of underground manganese mine, suddenly rock mass measuring about 6.5m X 3.0m X 0.45m thick parted from the hanging wall side right from floor level to the roof level (at 3m height) and fell over a face worker, inflicting serious bodily injuries to him to which he succumbed while being transported to the hospital.

Had,

the hangwall side of the stope been made and kept secured as required under Regulation 112 of the Metalliferous Mines Regulations 1961 and the stope been stowed with sand as prescribed,

this accident could have been averted.

4. Date – 22/02/15

Time – 9.00

Mine – MASARO KI OBERI SERPENTINE MINE

Owner – M/S NARAYAN MARBLE

Dist. – Udaipur, State – Rajasthan

Person(s) Killed :

1. Govind Meena, Worker, Male, 30 Years
2. Prakash, Worker, Male, 27 Years

While two workers were working at the tow of 6m high side of a second bench in an opencast marble mine, all of a sudden a block of marble measuring about 7m (Length) X 2m (Width) X 1.25m (Thickness) fell from a height of about 4.5m and broken into pieces and the workers were buried under the marble piece of size 3m (Length) X 2m (Width) X 1.25m (Thickness) inflicting fatal injury to both the workers.

Had, it been ensured that sides are adequately benched, sloped and secured so as to prevent danger from fall of sides as required under the provisions of Regulation 106(3) of the Metalliferous Mines Regulations, 1961.

this accident could have been averted.

5. Date – 11/08/15

Time – 8.00

Mine – BILLI MARKUNDI STONE MINE (5390, 91, 94–96)

Owner – M/S DEEPALI SEWA SAMITI

Dist. – Sonebhadra, State – Uttar Pradesh

Person(s) Killed :

1. Hari Lal Baiga, Labour, Male, 30 Years

While a contractual worker was standing near the high-wall of a stone quarry, loose boulders embedded and hanging on the high-wall fell from a height of 22.5m on him inflicting serious bodily injuries, to which he succumbed while on way to the hospital.

Had

the sides of opencast workings been benched and kept sloped, secured and dressed of all loose stones/boulders, as to prevent fall of sides as required by the provisions of Regulation 106 of the Metalliferous Mines Regulations, 1961,

this accident could have been averted.

6. Date - 21/10/15

Mine - ARASU I MAGNESITE MINE

Time - 13. 30

Owner - TAMIL NADU MAGNESITE LTD.

Dist. - Salem, State - Tamilnadu

Person(s) Killed :

1. G. Venkatachalam, Face Worker, Male, 62 Years

While two workers was engaged for picking magnesite from runoff mine against side of a bench in an opencast mine, side of the bench滑ed, partially buried one worker and one boulder measuring about 0.3m x 0.24m x 0.15m fell and hit him inflicting serious bodily injuries which turned fatal after nine days.

Had,

i) the sides of the bench been dressed properly before employing persons at the bottom of the bench as required under Regulation 106(3) of the Metalliferous Mines Regulations 1961 and

ii) effective supervision been provided as required under Regulation 116(3) (b), 46(1) (a) & 45(1) &(3) of the Metalliferous Mines Regulations 1961,

this accident could have been averted.

7. Date - 08/11/15

Mine - TANTRA-RAIKELA & BANDHAL IRON MINE

Time - 10. 00

Owner - JINDAL STRIPS LTD.

Dist. - Sundergarh, State - Orissa

Person(s) Killed :

1. Seru Mandal, HEMM operator, Male, 35 Years

While an operator was marching an excavator on a bench of an open cast mine the sides of the bench measuring about 21m x 4.5m of the bench滑ed and the excavator fell on the lower bench from a height of about 9m with the滑ed materials and the operator with cabin was buried in it who was rescued after 15 min and died on the way to Hospital.

Had,

the sides of the bench been secured so as to prevent danger of fall of sides, as required under Reg 106(3) of the MMR 1961.

This accident could have been averted.

8. Date - 12/09/15

Time - 13.50

Mine - MOCHIA LEAD AND ZINK MINE

Owner - HINDUSTAN ZINC LTD.

Dist. - Udaipur, State - Rajasthan

Person(s) Killed :

1. Prem Singh Mal, Bellman, Male, 49 Years

While the man winding cage was signaled for lowering it from a landing level in an underground mine, the roof of the cage got stuck up with the lift bridge, as the lift bridges were forgotten to be lifted up, and the cage on getting released, travelled at high speed before coming to a stop; the bellman inside the cage, received serious bodily injuries to which he succumbed instantly.

Had

- i) it been ensured that the lifting bridge was lifted before lowering of the cage as required under Regulations 55(i) of Metalliferous Mines Regulation, 1961;
- ii) it been ensured that the winding engine would stop immediately on loosening of the winding ropes on the drum as required under Regulation 181 of Metalliferous Mines Regulations, 1961;
- iii) the gap between the cage and the landing level (8 level) been maintained not more than 50mm as required under Regulation 82 of Metalliferous Mines Regulations, 1961 read with DGMS Circular (Technical)No. 7/2009;
- iv) there been a system working to interlock the operation of the winding engine with the lifting of lift bridge, so that the cage could not have moved unless and until the lifting bridge was lifted to clear the space for movement of cage in the shaft, as required under Regulation 81(3)(b) of Metalliferous Mines Regulations, 1961;
- v) there been a system working, to ensure that the winding engine would stop if there was any uneven slackness of winding ropes as required under DGMS Circular (Technical) No. 7/2001; and
- vi) there been a system working, to ensure that the winding engine would stop of the tail rope loop was getting shortened as required under DGMS Circular (Technical) no. 7/2011.

this accident could have been averted.

Code : 0229

**Other Accident due to Winding Operation
(1 Death)**

9. Date – 30/09/15

Mine – HUTTI GOLD MINE

Time – 3.45

Owner – HUTTI GOLD MINES CO. LTD.

Dist. – Raichur, State – Karnataka

Person(s) Killed :

1. Sangappa, Mazdoor cum signalman, Male, 49 Years

While a hoisting mazdoor cum signalman was cleaning accumulated muck over a changeover door/flap by standing on the same at headgear frame of vertical shaft on surface, to facilitate changeover of door/flap from waste to ore storage bin, skip containing ore was unloaded into unloading pocket, carrying the mazdoor along with ore into waste rock storage bin resulting serious bodily injuries which proved fatal after about one and half hours.

Had

i) the banksman who was aware about the work and presence of the mazdoor at the changeover door/flap not given signal to unload skip;

ii) a system/ mechanism been put in place to ensure that power supply in winder disconnected before persons were allowed to work on or in vicinity of changeover door/flap;

iii) a system of changeover door/flap by cleaning by proper tools from landing platform been implemented as stipulated in Safe Operating Procedure (SOP's) framed by manager

as required under Regulation 44(3)(a), Regulation 45(1), Regulation 53(a)&(d), Regulation 55 and Regulation 181 of the Metalliferous Mines Regulations, 1961 read with DGMS Circular (Tech) No. 13 of 2002 and Section 18(4) of the Mines Act, 1952

this accident could have been averted.

Code : 0300

Transportation Machinery (Non-Winding)

**Code : 0334 Conveyors
(1 Death)**

10. Date – 14/07/15

Mine – BARSUA IRON ORE MINE

Time – 23.20

Owner – RAW MATERIAL DIVISION (SAIL)

Dist. – Sundergarh, State – Orissa

Person(s) Killed :

1. Kaushal Kandulna, Contract Worker, Male, 41 Years

While a contractor worker was taking measurement of discharge end take up pulley of a conveyor belt by standing on it, in an ore handling plant of an open cast mine, the belt was operated, trapping him between conveyor belt and talk up pulley receiving serious bodily injuries to which he succumbed instantaneously.

Had,

the person not been allowed to take measurement of pulley of a conveyor belt while in motion without following Clause 3 of Standard Maintenance Practice to Assist in Maintenance Work at OHP & Beneficiation Plant Document No. 2C for Shut down thus negligently omitting to ensure the safety of persons in contravention of Regulation 174(3) read with Regulation 181 and 53(a) of Metalliferous Mines Regulation 1961.

**Code : 0335 Dumpers
(8 Deaths)**

While a tipper was edge-dumping/tipping overburden material over the mine face for back-filling the worked out area in an opencast mine, the tipper rolled over the unstable edge to fall 20m below. Whereas the tipper operator jumped out to save himself, a helper sitting on the other side received serious bodily injuries to which he succumbed whilst undergoing treatment at the hospital after about an hour.

Had a protective berm not less than half the diameter of the tippers deployed for back-filling been made and kept maintained inbye of the unstable tipping-edge to ensure that the tippers were not reversed upto the unstable ground during dumping of overburden, as required by clause 14.0 of Directorate's letter No. Aj/89 dated 07.01.2002 granting relaxations from the provisions of Regulation 106(2) (b) of the Metalliferous Mines Regulations, 1961, read with Appendix - D of DGMS Circular Tech. No. 01 of 1989,

this accident could have been averted.

While a dumper was being reversed on a haul road in a marble mine, a mazdoor, who was present at the rear side, was hit by the rear of the dumper sustaining serious bodily injuries to which he later succumbed in the hospital.

Had

i) the dumper not been reversed without ensuring that no person was present in the rear side of the dozer as required under Regulation 106(2) (b) of the Metalliferous Mines Regulations, 1961 read with clause no. 13.1(e) of Appendix of circular no. 36 of 1972; and

ii) the mine not been worked appointing a duly qualified manager as required under the provision of section 17(1) of the Mines Act, 1952 read with Regulation 34(1) of the Metalliferous Mines Regulations, 1961.

this accident could have been averted.

13. Date - 12/02/15

Mine - SUBRAYANAHALLI IRON ORE MINE

Time - 18.45

Owner - MYSORE MINERALS LTD.

Dist. - Bellary, State - Karnataka

Person(s) Killed :

1. Veeresh, Tipper Driver, Male, 23 Years

While a tipper driver along with his helper was driving a tipper on a downhill haul road with 1 in 10 gradient, having air leakage in brake hose, the driver lost his control over the tipper due to failure of brake and the tipper fell down to lower haul road at a depth of 15m after crossing over the berm of 0.6m height inflicting fatal injuries to the driver.

Had

i) Ensured that the competent persons carried out their respective duties in a proper manner as required under the provision of Regulation, 46(2) (a) of the Metalliferous Mines Regulations, 1961 and,

ii) Ensured that every tipper plying in the mine was mechanically sound and in efficient working order as required under the provision of Regulation, 106(2) (b) of the Metalliferous Mines Regulations, 1961 read with Clause no. 5(2) (a) of HEMM governing conditions of letter no. H-II/3893 dated: 26.12.1996,

this accident could have been averted.

14. Date - 29/09/15

Mine - VEERBHADRA GRANITE MINE

Time - 9.35

Owner - M/S VEERBHADRA MINERALS PVT. LTD.

Dist. - Prakasham, State - Andhra Pradesh

Person(s) Killed :

1. N.V. Subbaiah, Dumper Oprtr., Male, 55 Years

While a dumper was driven up a steep haul road at a gradient of 1 in 7 of an opencast mine, slowed to give pass to a light vehicle, the dumper failed to accelerate further, got uncontrolled and started rolling back, in the meanwhile the operator jumped off the cabin and received serious injuries to which he succumbed while being taken to the hospital.

Had

i) the gradient of the main haul road at the mine been maintained as required under condition no. 8.4 (Annexure 106A) of the permission granted under Reg. 106(2) (b) of the Metalliferous Mines Regulations, 1961,

ii) the dumper been effectively provided and maintained with safety features as required under permission condition no. 13 (Annexure 106A) of the permission granted under Reg. 106(2) (b) of the Metalliferous Mines Regulations, 1961,

this accident could have been averted.

15. Date - 15/10/15

Time - 16.30

Mine - Red Hills Magnesite Mine

Owner - M/S SAIL REFRactory CO. LTD.

Dist. - Salem, State - Tamilnadu

Person(s) Killed :

1. P. Soundararajan, Mining Mate, Male, 46 Years

While a tipper loaded with magnesite was overtaking two persons moving on a motorcycle at the end of a shift on a road within leasehold of an opencast mine, the tipper hit the motorcycle due to which the rider who was driving the motor cycle fell down below the rear wheel of the tipper inflicting fatal injuries while the pillion rider sitting behind him escaped with minor injuries.

Had

the driver of the tipper overtaken the motorcycle safely and not driven the tipper negligently so as to endanger safety of the person moving there at, as provided under Regulation 181 of Metalliferous Mines Regulations, 1961,

this accident could have been averted.

16. Date - 17/10/15

Time - 23.00

Mine - CHECHAT LIMESTONE MINE (M. L. NO. 95/2008

Owner - JAIDEEP SINGH ANAND

Dist. - Kota, State - Rajasthan

Person(s) Killed :

1. Sunder, Drill helper, Male, 30 Years

While an empty tipper was returning from waste dump yard, it hit a drill-helper on surface haul road inflicting serious bodily injuries to him, to which he succumbed whilst on way to hospital.

Had,

i) Adequate general lightening, conforming to standards laid down in GSR 829 dated 18.06.1975 (DGMS Circular No. Legis, 3 of 1976), been provided during working hours at different places where natural light was insufficient, as required by the provisions of Regulation 146 and Regulation 148 of the Metalliferous Mines Regulation, 1961.

ii) The operator's cabin of the tipper provided with a wind screen and the tipper been kept maintained in good and safe working condition, as required by clause 5.9 of Directorate's letter No. 1130 dated 14.02.2012 granting permission under Regulation 106(2) (b) of the Metalliferous Mines Regulation, 1961, and,

iii) an engineer, holding prescribed qualifications has been appointed at the mine to hold general charge of machinery and equipment deployed in the mine, and be responsible for their installation, maintenance and safe working, as required by the provisions of Regulation 36 and clause 10.2 of Directorate's letter No. 1130 dated 14.02.2012 granting permission under Regulation 106(2) (b) of the Metalliferous Mines Regulation, 1961.

this accident could have been averted.

17. Date - 19/10/15

Time - 12.45

Mine - KARANKOTE LIMESTONE MINE

Owner - CEMENT CORPN. OF INDIA LTD.

Dist. - Ranga Reddy, State - Andhra Pradesh

Person(s) Killed :

1. Anil M. Hanumante, Tipper Operator, Male, 36 Years

While operator was driving a tipper on a Haul Road of gradient 1 in 20 of a Limestone opencast mine, the operator lost control and caused the tipper to topple on to a lower bench as a result, the operator received fatal injuries.

Had,

it been driven at a controlled speed, defensively, avoiding distractions thus not negligently omitting to ensure his own safety as required under provisions of Regulation 181 of the Metalliferous Mines Regulations, 1961, this accident could have been averted.

18. Date - 14/12/15

Time - 22.30

Mine - RAMPURA AGUCHA LEAD & ZINC OPEN CAST MIN

Owner - HINDUSTAN ZINC LTD.

Dist. - Bhilwara, State - Rajasthan

Person(s) Killed :

1. Bhupendra Paliwal, Dumper Oprtr., Male, 51 Years

While a dumper operator, after parking his dumper during shift changeover, was moving across the parking yard towards exit, a 220T Komatsu 830 E make dumper being driven out of the parking yard ran over him, inflicting instant fatal injury.

Had

i) the dumper been driven defensively (paying due caution to the warnings given by proximity warning device), as required by clause 11(b) of the Directorate's letter No. AJ/DMS/Prem-106(2) (b).Metal/2009/3703 dated 17.07.2009 granting relaxations from the provisions of Regulation 106(2) (b) of the Metalliferous Mines Regulations, 1961 and

ii) none ventured in close proximity of the moving dumper, thus not negligently endangering his own life and safety, as called for by the provisions of Regulations 181 of the Metalliferous Mines Regulations, 1961,

this accident could have been averted.

Code : 0336 Wagon Movements (1 Death)

While a contractor employee deployed as points man was standing on a ladder of leading moving railway wagon of a rake of seventeen empty wagons being pushed by a locomotive at bottom station of an opencast Iron ore mine, lost his balance, fell down and run over by the wagon resulting into fatality.

Had.

- i) the person not stood on a ladder of leading moving wagon of a rake of empty wagons being pushed by locomotive and accompanied it by walking along the track line for giving signal, thereby not negligently endangering his own life as required under the code of practice framed by the manager, Reg. 57(7) and 181 of the Metalliferous Mines Regulation 1961.
 - ii) the movement of wagons been carried out under the supervision of competent persons and prevented the points man from riding on a moving wagon by standing on its ladder as required under Reg. 104(2) read with Reg. 104(8) of Metalliferous Mines Regulation 1961,

this accident could have been averted.

**Code : 0339 Wheeled Trackless(Truck,Tanker,etc.)
 (5 Deaths)**

20. Date - 30/01/15 Mine - KABIR CHAWDA PANCHPERA PAHAR SANDSTONE 8
Time - 11.00 Owner - SHRI KABIR CHAWDA
Dist. - Nagaur, State - Rajasthan
Person(s) Killed :
1. Ajharuddin, Mazdoor, Male, 21 Years

While a mazdoor was engaged in fixing wedges in blocks of sandstone loaded in a truck in an opencast sandstone mine the truck was suddenly started and moved down a ramp in the mine causing one of the blocks of the size of about 1.8m X 1.0m X 0.5m to shift and hit the mazdoor to press him against side of hopper of the truck inflicting seious bodily injuries to which he succumbed on way to a hospital.

Had

- i) the truck not been negligently driven without ensuring that the sandstone blocks were secured and the mazdoor was out of hopper of the truck there by not endangering his life,
 - ii) a competent person been appointed to secure thorough supervision of all operations in the mine and

iii) a duly qualified Manager in the mine been appointed for management, control supervision and direction thereof,

as required under the provisions of Regulation 181, 39(1)(a) and 34(1)(a) of the Metalliferous Mines Regulations, 1961 read with Sections 17(1) and 18(1)&(4) of the Mines Act, 1952,

this accident could have been averted.

21. Date - 26/02/15

Mine - SETHURAYANPUDUR LIMESTONE MINE

Time - 14.15

Owner - K. KRISHNAMOORTHY

Dist. - Tirunelveli, State - Tamilnadu

Person(s) Killed :

1. A. Thangapandy, Driller, Male, 55 Years

While a driller helper-cum-compressor operator was driving the tractor mounted compressor (TMC) on a haul road of an opencast mine, he lost control over it and the tractor toppled down, as result he was stuck beneath the tractor, inflicting serious bodily injuries to which he succumbed on the way to hospital.

Had,

a duly qualified manager been appointed for overall management, supervision, direction and control of the mine, as required under Regulation 34 of the Metalliferous Mines Regulations, 1961 read with section 17 of the Mines Act, 1952,

this accident could have been averted.

22. Date - 02/05/15

Mine - MORWAD MARBLE MINE

Time - 17.30

Owner - R. K. MARBLE PVT. LTD.

Dist. - Rajsamand, State - Rajasthan

Person(s) Killed :

1. Shankar Meena, Worker, Male, 21 Years

While a worker was engaged in loading the long hole drill rods in a pick and carry crane van, suddenly the jack of the stabiliser was retracted by a crane operator helper from the opposite side as a result inflicting serious injuries to the worker, who succumbed to his injuries on way to the hospital.

Had the control lever of the jack of the stabiliser not been operated form the side opposite to the side from which loading was being done in the pick and carry crane van thereby negligently endangering the live of a co-worker, as required under Regulation 181 of Metalliferous Mines Regulations, 1961, this accident could have been averted.

23. Date - 11/06/15

Mine - MEGHATUBURU IRON ORE MINE

Time - 21.15

Owner - RAW MATERIAL DIVISION (SAIL)

Dist. - West Singhbhum, State - Jharkhand

Person(s) Killed :

1. Dipnarayan Mahato, Sampler, Male, 56 Years

While a person was walking on a pucca road in the plant area of an open cast mine he was hit by a reversing light vehicle inflicting serious bodily injuries resulting into death during treatment at hospital after about 15 hours

Had

- i) the light vehicle not been reversed carelessly thus not negligently omitting to ensure the safety of the person walking on the road in contravention of the provision of the Reg 181 of the MMR 1961.
 - ii)the light vehicle been provided with Audio visual reversal alarm and a separate parking place near OHP control Room,thus not negligently omitting to ensure safety of person walking on the back side of the light vehicle in contravention of the Reg 181 of the The MMR 1961.

this accident could have been averted.

24. Date - 12/09/15 Mine - MORWAD MARBLE MINE
Time - 1.30 Owner - M/S SONI MARBLE
Dist. - Rajsamand, State - Rajasthan
Person(s) Killed :
1. Ram Meena, Wire Saw helper, Male, 32 Years

While a tractor was being driven down along a steep haul road in an opencast mine; suddenly, the brakes of the tractor failed, tractor ran down uncontrollled and collided with a compressor in the adjoining mine which in turn hit two persons sitting behind it. One of them escaped unhurt, while the other during escaping away got entangled with the sting of the wire saw machine in operation nearby and received serious bodily injury to which he succumbed after Five(5) days during treatment in hospital.

Had

- i) the gradient of the ramp not been steeper than 1 in 10 as required under provisions of Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961 read with condition No. 8.0(5)(4) of the permission No. UR/4085 dated 22.08.2007.
 - ii) the brakes of the tractor been maintained properly in good and safe working condition as required under provision of Regulation 172 of the Metalliferous Mines Regulations, 1961 read with condition No. 10.0 (3) (a) of the permission No. UR/4085 dated 22.08.2007.
 - iii) the operator driven the tractor defensibly thus not negligently endangering the life of the person employed in the adjacent mine as required under provisions of Regulation 181 of the Metalliferous Mines Regulations, 1961 read with condition No. 14.0(2) of the permission letter No. UR/4085 dated 22.08.2007.

this accident could have been averted.

Code : 0400 Machinery Other than Transp. Machinery

**Code : 0449 Other Non-Transportation Machinery
(2 Deaths)**

25. Date - 25/02/15 Mine - BILLI MARKUNDI STONE (AS 4601, 2, 3, 6, 8, 9)
Time - 9.30 Owner - M/S B. AGRAWAL STONE PRODUCTS LIMITED
Dist. - Sonebhadra, State - Uttar Pradesh
Person(s) Killed :
1. Anita Kumar i, Labour, Female, 22 Years

While one female contractual worker was standing near a tractor compressor at the top of the quarry, her scarf/duppata got entangled in the moving belt-drive of the compressor, strangulating her and inflicting serious injuries to her neck to which she succumbed within half an hour whilst on way to the hospital.

Had

- i) the moving parts/belt-drive of the tractor-compressor been adequately fenced by suitable guards of substantial construction to prevent danger and such guards been kept in position while the tractor-compressor was in use, and none wearing loose clothes been allowed in close proximity of such moving machinery, as required by the provisions of Regulation 174(2) & (5) of the Metalliferous Mines Regulations, 1961, and,
 - ii) the mine, in absence of the manager, been placed under the charge of a duly qualified person authorized to act as manager, to ensure that all work in the mine was carried on in accordance with the provisions of the Mines Act, and of the Regulations, rules, bye-laws and orders made there-under, whereby safety of persons employed in the mine was ensured in every respect, or working of the mine been kept suspended till the return of the Manager from his leave, as required by the provisions of Regulation 34(7)(a) of the Metalliferous Mines Regulations, 1961.

this accident could have been averted.

26. Date - 25/06/15 Mine - BILLI MARKUNDI STONE MINE (A. NO. 7407)
Time - 9.15 Owner - ASHOK KUMAR MISHRA
Dist. - Sonebhadra, State - Uttar Pradesh
Person(s) Killed :
1. Nisha Kumari, Cont. Labour, Female, 19 Years

While a female contractual worker was hurriedly running past a tractor-compressor engaged for drilling at the bed of a stone quarry, her scarf/dupatta got entangled in the moving belt-drive of the compressor, strangulating her and severing her head from her body to which she succumbed almost instantaneously.

Had

the moving parts/belt-drive of the tractor-compressor been adequately fenced by suitable guards of substantial construction to prevent danger and such guards been kept in position while the tractor-compressor was in use, and none wearing loose clothes been allowed in close proximity of such moving machinery, as required by the provisions of Regulation 174(2) & (5) of the Metalliferous Mines Regulations, 1961,

this accident could have been averted.

Code : 0600 **Electricity**

**Code : 0665 Power Cables Other Than Trailing Cables
 (2 Deaths)**

27. Date - 05/10/15 Mine - JHANJHAR MARBLE MINE M/L NO. 26/11
Time - 12.30 Owner - SHRI HEERALAL TELI
Dist. - Rajsamand, State - Rajasthan
Person(s) Killed :
1. Ramlal Meena, Mine Mazdoor, Male, 29 Years

While a Mine Mazdoor attempting to repair the live jointed cable connected to the 3 HP mono block pump motor, received electric shock and succumbed to his injuries in the hospital after half an hour.

Had

non designated person not been deployed and adequate work permit procedure for disconnection of power supply been followed as required under provision of Reg.3(1) read with Reg.19(3) & Reg.19(1) of Central Electricity Authority (Measures relating to safety and electric supply) Regulations, 2010.

this accident could have been averted.

28. Date - 29/11/15 Mine - MIDWEST GRANITE MINE
Time - 18.15 Owner - MIDWEST GRANITE PVT. LTD.
Dist. - Prakasham, State - Andhra Pradesh
Person(s) Killed :
1. Hemanth Choudhary, Wire-saw Helper, Male, 19 Years

While a person was priming 5HP pump in a quarry bed of an opencast granite mine, he received electric shock due to defective cable lying in water which proved fatal on the way to hospital.

Had

the cable been used in good condition as required under Reg. 107(5);

the installation of apparatus re-erected in the mine examined and tested before it is put into service in a new position as required under the provisions of Reg. 115(3) (ii) of Central Electricity Authority (Measures Relating to Safety and Electric Supply) Regulations, 2010, and;

the electrical equipment been placed at proper safe place, which was necessary for the life and safety of persons employed in such operation as was required under Regulation 94(1) and read with Reg-98(3) and Reg-109(1) of Central Electricity Authority (Measure Relating to Safety and Electric Supply) Regulations, 2010,

this accident could have been averted.

Code : 0700

Dust, Gas & Other Combustible Material

Code : 0776

Well Blowout (With Fire)

(2 Deaths)

29. Date – 18/04/15

Mine – ANKLESWAR PROJECT OIL MINE

Time – 22. 30

Owner – OIL & NATURAL GAS CORPORATION LTD.

Dist. – Bharuch, State – Gujarat

Person(s) Killed :

1. Shivaram Kalgude, Contract crane opt, Male, 51 Years
2. Manhar Vankar, cont. crane oprt., Male, 37 Years

While Pulling out operation of string in a Work over Gas well was carried out, suddenly, blow out occurred and caught fire after two days, during lifting of CAT walk near the Gas well with the help of a 24 Volts battery started diesel operated 40 Tonnes hydraulic crane deployed at a distance of about 16m from the blow out well, in which 12 persons sustained burn injuries and two of them succumbed to their injuries after 10 days.

Had

i) Hydrostatic pressure of the fluid column (brine) overbalanced the formation pressure to prevent the leakage of petroleum/gas at the Wellhead, thus, not negligently or willfully endangered the safety of the mine or of the persons employed therein, as required under Regulation 98 of the Oil Mines Regulations, 1984, and

ii) Proper Blowout preventer assembly been securely installed and maintained at the Wellhead during Well service Operation as required under Regulation 56(5) (a) of the Oil Mines Regulations, 1984, and

iii) 24 Volts battery started diesel operated 40 Tonnes capacity Hydraulic Crane not deployed within 500m of the Well on the down wind direction as demarcated as danger Zone for lifting of CAT Walk, as required under Regulation 46(2)(b) of the Oil Mines Regulations, 1984 and, 24 Volts battery started diesel operated 40 Tonnes hydraulic crane not used in danger Zone, as required under Regulation 46(2)(b) (i) of the Oil Mines Regulaions, 1984,

this accident could have been averted.

30. Date - 03/01/15

Mine - BILLI MARKUNDI STONE MINE (S. N. 7402KA, 740

Time - 8.30

Owner - SHRI RAM NARESH

Dist. - Sonebhadra, State - Uttar Pradesh

Person(s) Killed :

1. Ram Govind, Mine Worker, Male, 23 Years

While, three persons were employed for drilling on a ledge at a height of about 12.5m on a 29.7m high and near vertical side of a stone quarry, one worker slipped and fell down onto blasted stone below and received serious bodily injuries, to which he succumbed whilst on way to the hospital.

Had

i) the sides of the opencast workings been kept benched, sloped and secured whilst working the mine and the mine been worked by benching the sides top downwards and under personal supervision of a manager, as was required by the provisions of Regulation 106(1)(2) & (3) of the Metalliferous Mines Regulations 1961, and stipulations of Directorate's letter No. S 29013/103/2013-14/VR(NZ)/SNB-Stone/1564 dated 24.12.2013 imposing Order under Section 22(3) of the Mines Act, 1952, and,

ii) a duly qualified manager been appointed to carry out all the mining activities at the mine in accordance with the provisions of Regulations, Rules and orders made there-under, as required by the provisions of Regulation, 34(1)(a) of the Metalliferous Mines Regulations, 1961, and

iii) persons not been allowed to work at any place/ledge from where they are likely to slip or overbalance to fall more than 1.8m, unless they were secured by a safety belt/full body harness of an approved type, suitably fixed to prevent them from falling, as required by the provisions of Regulation 118(4) of the Metalliferous Mines Regulations, 1961, read with DGMS Circular No. Tech. 3 of 2006 & DGMS Tech Circular (Approval) No. 06 dated 27.12.2010,

this accident could have been averted.

31. Date - 30/03/15

Mine - DHELANA SERPENTINE MINE

Time - 11.00

Owner - M/S EVERGREEN MARBLE

Dist. - Udaipur, State - Rajasthan

Person(s) Killed :

1. Kailash Meena, General Mazdoor, Male, 44 Years

While a worker was engaged in drilling in the marble block on the floor of First bench in an opencast marble mine, the moment he started drilling, the drill rod was subjected to severe vibration probably due to failure in adopting proper drilling methodology and this vibration was transmitted in the body of the worker resulting his imbalance and as he was standing on the edge of the floor of the first bench, he fell down on the floor of second bench (quarry bed from a height of approx. 4m, which inflicted fatal injury to him.

i) the person used the safety belt provided by the management while performing drilling operation, an act done negligently which endangered the life of the worker under provisions of Regulation 41(1)(a) read with Regulation 181 and Regulation 182c of the Metalliferous Mines Regulations, 1961.

ii) it been ensured that all the persons are using protective equipments including safety belt, an act done by him either negligently or willfully and which endangered the life of the worker in the mine under provisions of Section 18(5) of Mines Act, 1952 read with Regulation 44(9) of the Metalliferous Mines Regulation, 1961.

This accident could have been averted

32. Date - 16/04/15

Mine - UMRAYA MARBLE MINE

Time - 13.00

Owner - M/S VIKASH BALAJI MARMO PVT. LTD

Dist. - Rajsamand, State - Rajasthan

Person(s) Killed :

1. Pintu Gupta, Driller, Male, 38 Years

While a worker was engaged in observing the drilling area in the marble block on the floor of First bench in an opencast marble mine, he slipped resulting into his getting imbalanced and he fell down from the floor of the first bench to the floor of the second bench (i.e quarry bed) from a height of approx. 6m, receiving serious injuries in the head to which he succumbed after 14 hours while under treatment at the hospital.

Had

i) the person used the safety belt provided by the management while performing drilling operation, thus not negligently endangered his own life as required under the provisions of Regulation 182C read with Regulation 181 of the Metalliferous Mines Regulations, 1961.

ii) the manager of the mine ensured that all the persons are using protective equipments including safety belt, to avoid an act which endangered the life of the worker in the mine as required under the provisions of Section 18(5) of Mines Act, 1952 read with Regulation 44(9) of the Metalliferous Mines Regulations, 1961.

this accident could have been averted.

33. Date - 23/04/15

Mine - NIZARNA MARBLE MINE (ML. NO. 59/08)

Time - 15.00

Owner - M/S PARSAWNATH MARBLE

Dist. - Rajsamand, State - Rajasthan

Person(s) Killed :

1. Ramlal ,General Mazdoor, Male, 26 Years

While a worker was engaged in placement of air bag for its inflation so as to topple the marble block on the floor of second bench in an opencast marble mine, he slipped resulting into his getting imbalanced and he fell down from the floor of the second bench to the floor of the 3rd bench (i.e. quarry bed from a height of approx. 6m, receiving serious injuries in the head to which he succumbed on the way to hospital.

Had

i) the Owner of the mine ensured that all the persons have been provided protective equipments including safety belt, to avoid an act which endangered the life of the worker in the mine as required

under the provisions of Section 18(4) of Mines Act, 1952 read with Regulation 181 of the Metalliferous Mines Regulations, 1961.

ii) a qualified manager appointed in the mine for the overall management, control, supervision and direction of the mine under Section 17 of the Mines Act, 1952 read with Regulation 34 of the Metalliferous Mines Regulation, 1961.

this accident could have been averted.

34. Date - 22/05/15

Mine - SETHURAYANPUDUR LIMESTONE MINE

Time - 12.00

Owner - K. KRISHNAMOORTHY

Dist. - Tirunelveli, State - Tamilnadu

Person(s) Killed :

1. G.Ratish, General Mazdoor, Male, 38 Years

While a person was cleaning the loose boulders at the edge of the bench to prepare the area for drilling in a quarry, his leg slipped and fell down from a height of about 30m and got serious bodily injuries to which he succumbed later.

Had

i) proper safety appliances such as safety belt, lifeline, guard rails etc. been provided to secure the life of persons working at heights or edge from where he is likely to slip and fall, as required under Regulation 114(2) & 118(4) of the Metalliferous Mines Regulations, 1961,

ii) a duly qualified manager been appointed for overall management, supervision, direction and control of the mine, as required under Regulation 34 of the Metalliferous Mines Regulations, 1961 read with Section 17 of the Mines Act, 1952,

this accident could have been averted.

35. Date - 07/07/15

Mine - AGARIA MARBLE MINE (M.L. 36/09)

Time - 12.15

Owner - M/S CHANDRESH MAHESHWARI

Dist. - Rajsamand, State - Rajasthan

Person(s) Killed :

1. Chogga Kumawat, General Mazdoor, Male, 50 Years

While one mazdoor was traveling on a slippery surface near the edge of a bench, suddenly he got unbalanced and fell down to the bottom of the quarry from a height of about 4.0m and got injured. Later he succumbed to his injuries in the hospital.

Had

he not traveled over the slippery surface near the edge of the marble bench thus negligently endangering his life as required under the provision of Regulation 41(1)(a) & 181 of the Metalliferous Mines Regulations, 1961,

this accident could have been averted.

36. Date - 27/08/15
Time - 9.15

Mine – BILLI MARKUNDI STONE MINE (S. N. 7536)

Owner – SHRI ASHOK KUMAR SINGH

Dist. - Sonebhadra, State - Uttar Pradesh

Person(s) Killed :

1. Sinod Baiga, Mine Worker, Male, 20 Years

While eight workers were working on a ledge at a height of about 47.5m made on a 79.63m high high-wall of a stone quarry, two workers slipped and fell down on a heap of overburden stacked at the quarry bed. One person received serious bodily injuries, to which he succumbed whilst en route to the hospital, and other person escaped with minor injuries.

Had

i) the sides of the opencast workings been kept benched, sloped and secured whilst working the mine and the mine been worked by benching the sides top downwards and under personal supervision of a manager, as was required by the provisions of Regulation 106 of the Metalliferous Mines Regulations 1961, and stipulations of Directorate's letter No. S 29013/73/2014-15/VR(NZ)/SNB-Stone/1340 dated 25.07.2014 imposing Order under Section 22(3) of the Mines Act, 1952,

ii) Persons not been allowed to work at any place/ledge from where they are likely to slip or overbalance to fall more than 1.8m, unless they were secured by a safety belt/full body harness of an approved type, suitably fixed to prevent them from falling, as required by the provisions of Regulation 118(4) of the Metalliferous Mines Regulations, 1961, read with DGMS Circular No. Tech. 3 of 2006 & DGMS Tech Circular (Approval) No.06 dated 27.12.2010, and,

iii) the mine been placed under the charge of a duly qualified manager to ensure that all work in the mine was carried on in accordance with the provisions of the Mines Act, and of the Regulations, rules, bye-laws and orders made there-under, whereby safety of persons employed in the mine could be ensured in every respect, as required by the provisions of Section 17 of the Mines Act, 1952, read with Regulation 34 of the Metalliferous Mines Regulations, 1961,

this accident would have been averted.

37. Date - 31/08/15
Time - 11.00

Mine – SRI LAKSHMI BALAJI STONE QUARRY

Owner - M/S SRI LAKSHMI BALAJI STONE CRUSHERS

Dist. - Guntur, State - Andhra Pradesh

Person(s) Killed :

1. Soura Nandu, Driller, Male, 25 Years
 2. Mudili Buttu, Driller, Male, 23 Years

While two workmen were drilling holes at the top bench of an opencast working, suddenly the drill rod of the jack hammer broke and both of them got overbalanced and fell from a height of about 45m and hit upon the blasted muck at the bottom and got grievously injured to which they succumbed almost instantly.

Had

the sides of the working been kept properly benched and the workmen not permitted to work at the narrow bench at height unless being secured by a safety-belt or life line so as to prevent him from

slipping or overbalancing and falling down and the operations at the mine was kept under the statutory supervision of a duly qualified manager having the prescribed qualifications for the overall management, supervision, direction and control at the mine and other statutory officials appointed as required under Reg. 106(1), 114(2), 34(1), 37 & 116 of the Metalliferous Mines Regulation 1961 read with section 17(1) of the Mines Act 1952,

this accident could have been averted.

38. Date - 18/12/15 Mine - GELEKI PRODUCTION OIL MINE
Time - 12.05 Owner - OIL & NATURAL GAS CORPORATION LTD.
Dist. - Sibsagar, State - Assam
Person(s) Killed :
1. Kanak Hatimuria, Scrapper Mazdoor, Male, 40 Years

While wax scrapping operation in an Oil Mine was being done by a contractual worker, he lost balance and fell down from a height of 3.5m over a 2" iron gas pipe to which he sustained serious bodily injuries which proved fatal within 25 minutes.

Had

- i) the wax scrapping operation been done carefully by not endangering the life of persons employed therein, there by violating provisions made under Reg. 18(3), (98) of OMR 84 and
 - ii) the use of personal protective equipment been ensured as required under Reg. 16(1) read with Reg. 27, 87 and 88 of OMR' 84

this accident could have been averted

**Code : 0883 Fall of Objects incl. Rolling Objects
(4 Deaths)**

39. Date - 10/03/15 Mine - ASAHI INDIA GLASS LTD. (ML NO. 14/06)
Time - 17.30 Owner - M/S ASAHI INDIA GLASS LIMITED
Dist. - Karauli, State - Rajasthan
Person(s) Killed :
1. Muniram Meena, Worker, Male, 21 Years

While an excavator operator was pushing ROM silica sand minerals into the hopper in a crushing plant located in the leasehold area of an opencast mine, the front wall of the hopper measuring about 8.5m

Length X 3.0m Height having thickness about 0.65m collapsed and the stone boulder pieces of the said collapsed wall hit and covered a worker, working near there, who was recovered dead after about half an hour.

Had the excavator been operated in proper and safe manner and the ROM mineral was not pushed hard against the front wall of the hopper, thus, not negligently omitting to ensure safety of persons in contravention of Regulation 41(1)(a) read with Regulation 181 of the Metalliferous Mines Regulations, 1961.

this accident could have been averted.

40. Date - 16/08/15 Mine - TRIPURA DRILLING MINE
Time - 8.45 Owner - OIL & NATURAL GAS CORPORATION LTD.
 Dist. - West Tripura, State - Tripura
Person(s) Killed :
 1. Deb Das Chkrabarty, Dy. S. Engineer, Male, 58 Years

While a crew of 05 persons was breaking off a drill pipe stand consisting of 03 drill pipes at derrick floor of a drill rig in an Oil Mine, the diving board extension weighing about 81 kgs fell down on derrick floor from a height of 26m, thus inflicting serious injuries to a person on head and body, to which he succumbed after nine days during treatment in hospital.

Had

- i) the downward movement of travelling block been done cautiously considering swing to avert its hitting to the diving board extension and thus the safety of persons working thereat not been negligently endangered as required under Regulation 23(3) read with Regulation 98 of OMR, 1984 and
- ii) Proper precautions been taken to avoid the contact between the travelling block and diving board extension by actions like folding of diving board extension to provide a larger clearance for the safe passage of travelling block and thus the safety of persons working thereat not been negligently endangered as required under Regulation 25(3) read with Regulation 98 Of OMR, 1984,

this accident could have been averted.

41. Date - 31/10/15 Mine - Thoria Marble Mine
Time - 2.00 Owner - Shri Govind Singh Sarangdeot
 Dist. - Rajsamand, State - Rajasthan
Person(s) Killed :
 1. Satish Meena, Mazdoor, Male, 30 Years

While an already cut marble block was being toppled with the help of an excavator bucket, placing excavator near the bottom of the bench, suddenly a part of marble block measuring about 3m(width) x 3m(Height) x 2m(thickness) detached along the plane of weakness and fell down to depth of about 3m over the cabin of the excavator causing serious bodily injuries to excavator operator to which he succumbed instantaneously.

Had

- i) the already cut marble block not been toppled,with the help of the excavator bucket, placing excavator near the bottom of the bench thus not negligently endangering excavator operator's life as required under the provision of Regulation 41(1)(a) read with 181 of the Metalliferous Mines Regulations, 1961;and
- ii) mine not been worked without appointing a duly qualified manager as required under the provisions of Section 17(1) of the Mines Act, 1952 read with Regulation 34(1) of the Metalliferous Mines Regulations, 1961,

this accident could have been averted.

42. Date - 08/12/15
Time - 11.51

Mine - SOHAGPUR WEST, EAST & SONHAT CBM WELLS
Owner - M/S RELIANCE INDUSTRIES LIMITED
Dist. - Shahdol, State - Madhya Pradesh
Person(s) Killed :
1. Ramprasad Kushwaha, Contract helper, Ma

While a contractor worker of a housekeeping group was standing near the sand filled transition pit of size 9.60m (L) x 1.75m(W) x 10.90m (H) made to cover exposed gas pipe line on surface, at CBM well site of the mine, one of the longer random rubble masonry walls of the pit had collapsed suddenly, trapping him in the debris and inflicting serious bodily injuries, which proved fatal instantaneously.

Had

the transition pit of adequate strength and quality been constructed without altering the approved engineering design parameters, thus not negligently omitted to do necessary to ensure the safety of the work persons employed in the mine, as required under Regulation 98 of the Oil Mines Regultions, 1984;

this accident could have been averted.

Code : 0900	Other Causes
Code : 0992	Flying Pieces(Except due to Explosives) (2 Deaths)

43. Date - 13/02/15
Time - 16.45

Mine - BALAKUNDI PINK GRANITE MINE
Owner - BHARAT TIMBER & CONSTRUCTION CO. LTD.
Dist. - Bagalkot, State - Karnataka
Person(s) Killed :
1. Muttappa, Helper, Male, 34 Years

While two persons were cleaning at pit bottom of an opencast granite mine near a block being separated by Expansive Mortar (Crack Powder) from top bench and an excavator was engaged for pit bottom cleaning nearby simultaneously, a piece of stone measuring 7.5cm (Length) X 7.5cm (Width) X 1.5cm(Thickness) fell on them from a height of about 6m inflicting serious bodily injuries to one of them which proved fatal after four days.

Had

- i) every official and competent person understood and carried out their duties as per the Mines Act-1952, Regulations & rules framed and orders made there under as required under Regulation 44(4) of Metalliferous Mines Regulation, 1961,
 - ii) a system been established that while separating a block by using Expansive Mortar (Crack Powder), manual cleaning and cleaning by excavator not been carried out endangering the lives of the persons employed therein as required under Regulation 181 of Metalliferous Mines Regulation, 1961 &

iii) it been ensured that the persons carried out their respective duties in a proper manner as required under Reg. 46(2)(a) of the Metalliferous Mines Regulations, 1961,

this accident could have been averted.

44. Date - 14/07/15 Mine - MASARO KI OBERI SERPENTINE MINE
Time - 17.00 Owner - M/S NARAYAN MARBLE

Dist. - Udaipur, State - Rajasthan
Person(s) Killed :
1. Sohanlal Meena, Worker, Male, 34 Years

While two workers were working on the quarry floor in an opencast marble mine, all of a sudden a huge block of rock mass measuring approx. 30m (length) x 5m(Av. Thickness) comprising of top two benches of north eastern side of quarry fell from a height of approx. 15m on the bed of the bottom most bench and broken into pieces, as a result, a rebounding rock mass of approx. 5kg hit a worker approx. 50m distant from the site of fall inflicting fatal injury to the worker.

Had it been ensured that sides are adequately benched, sloped and secured so as to prevent danger from fall of sides as required under the provisions of Regulation 106(3) of the Metalliferous Mines Regulations, 1961.

this accident could have been averted.

**Code : 0993 Drowning in Water
(1 Death)**

45. Date - 28/09/15 Mine - CHANDRIKA GRANITE MINE
Time - 9.30 Owner - M/S CHANDRIKA GRANITES
Dist. - Prakasham, State - Andhra Pradesh
Person(s) Killed :
1. A. Raju, General Mazdoor, Male, 35 Years

While a workmen was standing at the edge of the submerged bench of an opencast mine for rectification of pump foot-valve, he suddenly slipped and fell down into water and drowned.

Had

due precautions been taken by the supervisory staff and the workmen was not permitted to work in the vicinity of the water without using lifeline etc. as required under Reg. 47(1)(b), Reg. 114, Reg. 181 of the Metalliferous Mines Regulation 1961,

this accident could have been averted.

STATEMENT NO. 4.13

Details of major accidents in non-coal mines (involving 4 or more deaths) during the year 1901-2015

Sl. No.	Date of Accident	Name of Mine	Number of Persons		Cause of Accident
			Killed	S/Ijured	
1	2	3	4	5	6
1	02/02/01	A. Subha Naidy & Co. Mica	9	0	Fall of Roof
2	11/04/02	Redhill Ruby	5	4	Fall of Roof
3	26/09/04	Hannumanoya/41B Mica	7	0	Fall of Sides
4	29/12/06	Salayakhad Mica	4	2	Fall of Sides
5	24/01/07	Chirki Mica	5	0	Fall of Sides
6	10/02/08	Murwara Limestone	7	2	Fall of Sides
7	06/12/10	Shivrajpur Manganese	12	0	Fall of Sides
8	26/04/11	Charki Mica	4	0	Fall of Sides
9	04/06/12	Make Myebya Wolfrom	4	0	Fall of Sides
10	21/10/13	North Anantapur Gold	7	0	Fall of Roof
11	24/07/14	Maya Salt	5	2	Explosives
12	05/11/14	Tadaiya Mica	5	0	Irruption of Water
13	12/08/16	Wazunchaung Wolfram	9	0	Miscellaneous on Surface
14	13/05/19	Aulajhari Manganese	4	2	Fall of Sides
15	28/01/20	Hsaikho (Mile 28.6) Limestone	5	0	Fall of Sides
16	13/09/20	Bhalua Mica	4	0	Suffocation by Gases
17	18/09/20	Badwin Lead-Silver	11	0	In Shaft Ascending/Descending
18	19/02/23	Bawdwin Silver-Lead-Zinc	6	1	In Shaft Ascending/Descending
19	20/02/23	Cherangcode Mica	7	1	Fall of Sides
20	01/03/27	Telewadi Manganese	4	0	Fall of Sides
21	26/05/27	Bawdwin Silver-Lead	5	0	Suffocation by Gases
22	10/09/27	Tarki Limestone	4	0	Fall of Sides
23	12/10/27	Kyauktalone Limestone	9	18	Explosives
24	16/05/29	Bawdwin Silver-Lead-Zinc	10	0	Fall of Roof
25	06/01/31	Kanbank Tin and Wolfram	4	0	Fall of Sides
26	14/09/31	Taungpila Tin	5	0	Fall of Sides
27	12/04/32	Lady Rangi Mica	19	0	Suffocation by Gases
28	24/08/36	Wagon North Tin & Wolfram	7	0	Fall of Sides
29	26/02/37	Salaiya Pahari Limestone	9	0	Fall of Sides
30	22/12/38	Matauni Mica	4	0	Fall of Sides
31	05/10/40	Porcupine Steatite	4	2	Fall of Roof
32	15/07/43	Tatahwa Mica	5	0	Falling Down Shaft
33	07/11/45	Noamundi Iron	4	0	Fall of Sides
34	13/05/46	Kaza Limestone	4	0	Fall of Sides
35	06/12/46	Pattabhirama & Margin Mica	8	0	Irruption of Water
36	21/01/49	Kharonia Mica	5	0	Explosives
37	08/07/50	Basorhai Diamonds	6	0	Fall of Sides
38	14/06/51	Mysore Gold	4	0	Rock Burst
39	11/10/51	Oorgaum Gold	9	9	Rock Burst
40	02/11/51	Champion Reef Gold	4	0	Rock Burst

Statement 4.13 (Continued)

Sl. No.	Date of Accident	Name of Mine	Number of Persons		Cause of Accident
			Killed	S/Injured	
1	2	3	4	5	6
41	19/04/52	Champion Reef Gold	20	4	Rock Burst
42	30/06/52	Champion Reef Gold	10	5	Rock Burst
43	01/05/53	Lanjhera Manganese	5	2	Fall of Sides
44	21/06/54	Kachhidhana Manganese	5	1	Fall of Sides
45	30/11/54	Mysore Gold	4	1	Rock Burst
46	23/12/54	Venkajigudda(Vajra) Manganese	5	0	Fall of Sides
47	27/05/55	Champion Reef Gold	10	8	Rock Burst
48	21/04/56	Yeshwantanagar Manganese	5	1	Fall of Sides
49	18/08/56	Tikuri Bauxite	5	0	Fall of Sides
50	22/01/57	Madadakere Manganese	4	0	Fall of Sides
51	29/09/57	Rajupalem Barytes	11	2	Fall of Sides
52	19/02/58	Aytemvalasa Manganese	7	3	Fall of Sides
53	12/05/59	Siddimella Steatite	8	0	Fall of Sides
54	14/05/59	Serima White Earth	4	2	Fall of Roof
55	26/06/61	Gua Iron	4	1	Explosives
56	24/03/62	Champion Reef Gold	4	4	Rock Burst
57	01/06/63	Junawani Manganese	5	2	Fall of Sides
58	13/08/63	Nundydroog Gold	5	2	Rock Burst
59	16/02/64	Sonnedenhalli Iron	4	1	Fall of Sides
60	13/10/64	Patnibona (Bakudih) Stone	6	0	Fall of Sides
61	06/02/66	Mysore Gold	7	0	Overwinding
62	02/08/66	Borgafall Iron	5	0	Explosives
63	25/12/66	Venkateshwara Beryl & Mica	6	0	Fall of Sides
64	06/06/68	Sarvodaya Stone	7	0	Explosives
65	19/11/69	Morija Iron	4	3	Fall of Sides
66	14/10/70	Bhadrasai Manganese	4	0	Fall of Sides
67	29/01/71	Bhatti Badarpur Stone	4	0	Fall of Sides
68	20/06/72	Balawali Mica	4	0	Fall of Roof
69	22/08/78	Kukda Limestone	7	6	Fall of Sides
70	10/05/80	Kalidungri Dolomite	5	0	Fall of Sides
71	17/08/80	Bhatti Badarpur Stone	4	0	Fall of Sides
72	08/09/83	Manoharpur Iron	4	1	Truck
73	04/04/84	Surda Copper	5	0	Nitrous Fumes
74	30/05/84	Ahmedabad Oil Project	4	0	Fire
75	22/02/86	Rekha Fluorspar	8	2	Fall of Sides
76	15/11/88	Ankleshwar Oil Project	5	0	Outbreak of Fire
77	14/07/89	Nundydroog Gold	5	0	Rock Burst
78	30/05/90	Bhatti Badarpur Stone	7	0	Fall of Sides
79	22/06/91	Bandu Basaria Limestone	6	1	Fall of Overhangs
80	11/07/93	Pali Silica Sand	4	0	Fall of Sides
81	25/10/93	Pokarna Granite	5	1	Explosives
82	09/07/94	Maruthi Manganese	4	1	Fall of Sides
83	28/08/94	Rajpura Dariba Galena & Sphal.	13	0	Irruption of Water
84	16/02/95	Pali Silica Sand	4	0	Fall of Sides
85	08/11/96	God Granite	4	6	Explosives

Statement 4.13 (Continued)

Sl. No.	Date of Accident	Name of Mine	Number of Persons		Cause of Accident
			Killed	S/Injured	
1	2	3	4	5	6
86	17/04/99	Barkundi Soapstone No. 1	6	2	Fall of Sides
87	21/04/01	Jogogoria Stone Mine	4	0	Explosion/Ignition of Gas
88	02/06/02	Borli Limestone Mine	4	0	Fall of Sides
89	18/11/02	Devka Harmada Cheja Pathar Mine	5	2	Fall of Overhang
90	11/03/06	Surya Granite OpenCast Mine	4	0	Fall of Object
91	12/09/06	Tollem Group Iron Ore Mine	6	0	Fall of Sides
92	10/07/07	Mandodi Limestone Mine	5	1	Fall of Sides
93	12/05/08	SMS Infrastructure Ltd. Stone	9	20	Other explosive accident
94	25/02/10	Hamsa Mineral Granite Mine	14	1	Fall of Sides
95	26/03/10	Bharkundi No. 1 Soapstone Mine	8	0	Fall of Sides
96	24/04/10	Prashant Mining Quartz & Felspar Mine	4	0	Fall of Overhang
97	27/08/10	Deokhera Garnet Mine	5	0	Fall of Overhang
98	23/07/13	Granite Buid Stone Quarry SY 376/3-2	4	1	Fall of Overhang
99	26/11/14	PIPALJORI STONE MINE	4	0	Fall of Slides

STATEMENT NO. 4.14

Particulars of court of enquiries instituted under the Mines Act to enquire into the accidents in non-coal mines during the year 1901-2015

Sl. No.	Date of Accident	Name of Mine & Cause	No. of Persons Killed	Constitution of Court of Enquiry	Assessors
1	2	3	4	5	6
S/Shri					S/Shri
1	07/11/45	Noamundi Iron (Fall of Sides)	4	Information not readily available.	
2	19/04/52	a) Champion Reef Gold (Rock Burst)	20	Dy. Commissioner, Kolar	1. Chief Inspector of Mines 2. Ex. C. I. M. & Explosives 3. W. T. Hooking, Mining Engr. 4. M. C. Narsimhan, (Labour)
	30/06/52	b) Champion Reef Gold (Rock Burst)	10		
	19/08/52	c) Oorgaum Gold (Rock Burst)	1		
3	10/01/83	a) Bhatti Badarpur Stone (Fall of Sides)	1	Justice V. S. Deshpande	1. S. Sankaran 2. S. L. Passy, (INTUC)
	16/01/83	b) Bhatti Badarpur Stone (Fall of Sides)	1		
	24/01/83	c) Bhatti Badarpur Stone (Fall of Sides)	3		

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नियंत्रक प्रकाशन

PCIM 25-2015(Vol.II)(Non-Coal)

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STATISTICS OF MINES IN INDIA VOLUME – II (NON-COAL)

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