

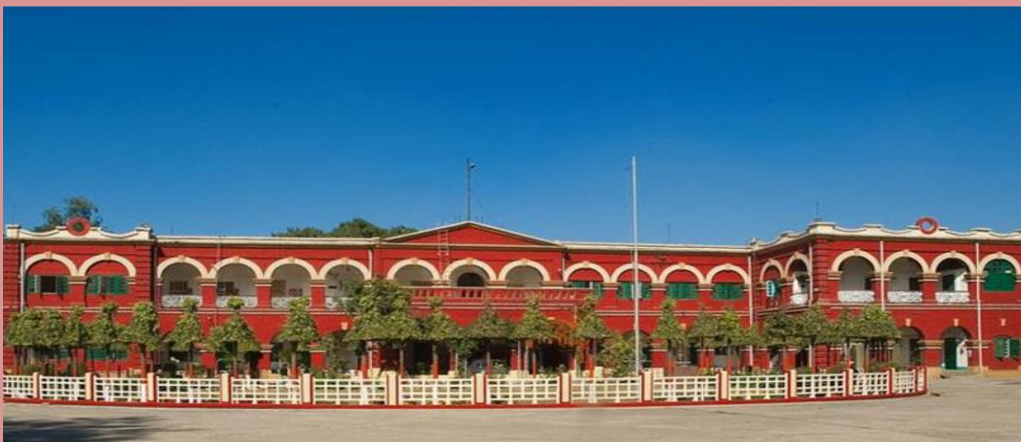


# STATISTICS OF MINES IN INDIA

## VOLUME – I (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-I (COAL)

2015

DIRECTORATE GENERAL OF MINES SAFETY

MINISTRY OF LABOUR & EMPLOYMENT

GOVERNMENT OF INDIA

## PREFACE


Directorate General of Mines Safety (DGMS) administers the Mines Act, 1952 throughout the country. Various statutory Returns and Notices under the Coal Mines Regulations, 1957 are submitted to DGMS. "Statistics of Mines in India- Vol. I (Coal)" for the year 2015 is based on such Returns and Notices and covers the coal mines in India coming under the purview of the Mines Act, 1952.

This publication contains information regarding employment, production, productivity and other associated aspects in coal mines. In addition, it also contains information regarding accidents in coal mines and brief description of findings of enquiry conducted by DGMS in respect of each and every fatal accident that occurred during the reference year. An updated list of all fatal accidents involving 4 or more deaths and a list of Court of Inquiries held for different accidents in coal mines since 1901 are also included in this publication.

It is expected that this publication will be quite useful to all persons connected with the mining industry, professionals and research scholars.

Any suggestion for improvement of the publication is most welcome.

December, 2017  
Dhanbad

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

**DIRECTORATE GENERAL OF MINES SAFETY**

Shri P.K.Sarkar  
Director General

Shri B. P. Singh  
Deputy Director General

**OFFICERS AND STAFF OF STATISTICS DIVISION  
ASSOCIATED WITH THE PUBLICATION**

Shri A.K. Tripathy, Deputy Director General (Statistics)

Shri R.K. Tiwary , Director of Mines Safety(Statistics)

Shri Manish Anand, Dy. Director of Mines Safety (Statistics)

Shri Manish Kumar, Asstt. Director of Mines Safety (Statistics)

**Senior Statistical Officers**

Shri A.Bodra, Shri M.S. Dutta , Shri S.N.P. Karan & Smt. J. Guria

**Data Processing Assistant**

Shri Sadashiv Prasad, Shri Mohd. Saqib

**Jr. Statistical Officer**

Shri R.Punit Kumar, Shri Tausif Hasan, Shri Sharwan Khalkho, Shri Anil Kr. Gupta

Shri B.K. Verma , Shri Ajay Kumar, Shri S.K. Lohani &

Smt. Pravita Dhama

**Dealing Assistants**

Shri T.K. Mandal & Shri Moti Lal Yadav

**Other Official**

Shri B.D Ghansi



## **INTRODUCTION**

The statistics of production and employment in this volume relate to the coal mines coming under the purview of the Mines Act, 1952. These are mainly compiled on the basis of the yearly information submitted by these coal mines in the form of Annual Return.

The present publication has been divided into six sections. A brief note giving the salient features and explanatory note on each section is given below:

### **SECTION - I: EMPLOYMENT AND OUTPUT**

Employment figures presented in this section cover all persons employed in mines as defined in the Mines Act, 1952 whether employed permanently or on temporary basis, direct or through contractors and include clerical and supervisory staff also. Senior Supervisory Officials like Agents, Managers, Under Managers, Engineers, Doctors are excluded in calculating figures for average daily employment.

Average daily employment of a mine is the ratio of total number of man-shift worked to the total number of working days during the year. Average daily employment of a district / state or owner is sum total of the average daily employment of all the mines belonging to that district / state or owner.

#### **Statement No.1.1**

Trend in average daily employment is presented for some major coal producing states only and also for all India. As all states are not shown in this table, the total arrived at by adding the employment data for these states will not tally with all India figure.

#### **Statement Nos. 1.11 to 1.14**

These statements contain information on output by method of work and mechanisation separately for underground and opencast workings.

In respect of mines having belowground workings, mechanisation has been defined as follows: -

Fully Mechanised - Where coal is cut and loaded by machines.

Semi Mechanised - Where coal is cut by coal cutting machines and blasted with explosives.

Manual - Where coal is obtained by solid blasting (with one free face) or where coal is cut and loaded by manual means only.

In respect of opencast mines mechanisation has been defined as follows: -

Fully Mechanised - Where coal is obtained by deep hole blasting and heavy Earth Moving Machineries.

Semi Mechanised - Where coal is obtained by compressed air / power drills but hand loaded.

Manual - Where coal is cut and loaded by manual means only.

### **Statement Nos. 1.13 & 1.14**

Productivity has been computed in terms of output per man year (OMY) and output per manshift (OMS).

OMY for a district / state or owner is calculated by dividing the figures of total amount of coal raised during the reference year by that district / state or owner, by figures of average daily employment for that district / state or owner during the year.

OMS is similarly calculated by using total number of manshifts worked in place of average daily employment.

### **SECTION - II : GASSINESS**

This section relates to statistics of mines having belowground workings as per different degree of gassy seams. The degree of gassiness of seams is defined as follows :-

Gassy seam of the first degree :

A coal seam or part thereof lying within the precincts of a mine not being an opencast working whether or not inflammable gas is actually detected in the general body of the air at any place in its workings belowground, or when the percentage of the inflammable gas, if and when detected, in such general body of air does not exceed 0.1 and the rates of emission of such gas does not exceed one cubic metre per tonne of coal produced.

Gassy seam of the second degree :

A coal seam or part thereof lying within the precincts of a mine not being an opencast working in which the percentage of inflammable gas in the general body of air at any place in the working of the seam is more than 0.1 or the rate of emission of inflammable gas per tonne of coal produced exceeds one cubic metre but does not exceed ten cubic metres.

Gassy seam of the third degree :

A coal seam or part thereof lying within the precincts of a mine not being an opencast working in which the rate of emission of inflammable gas per tonne of coal produced exceeds ten

cubic metres.

"General body of air" means the general atmosphere in a seam and include general atmosphere in the sealed off areas or in any borehole drilled in coal or the adjacent strata.

The employment and output figures for Degree-II and Degree III mines relates to the seams having gassiness of Degree-II and Degree-III only.

### **SECTION - III : EXPLOSIVES**

This section indicates consumption of permitted and non-permitted explosives used for producing coal and removing overburden.

### **SECTION IV : MACHINERIES**

This section indicates number of different machineries and their aggregate Horse Power used in coal mines separately in belowground, opencast and aboveground workings. Machineries, which are kept in reserve, have not been included in compilation.

### **SECTION - V : ACCIDENTS**

Statistics of accidents presented in this section are compiled from the Notices of accidents submitted to the Director General of Mines Safety as required under the provisions of the Coal Mines Regulations, 1957. This is supplemented by the reports of enquiry conducted by the officers of the Directorate General of Mines Safety (DGMS). The officers of the Directorate General of Mines Safety (DGMS) investigate into the causes and circumstances leading to each and every fatal accident occurred in these mines.

Fatal accidents are those in which at least one death is involved.

Serious bodily injury is defined as any injury which involves or in all probability will involve, the permanent loss of any part or section of a body or the use of any part or section of a body, or the permanent loss of or incapacity or the fracture of any bone or one or more joints or bones or any phalanges of hand or foot.

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

A list of all fatal accidents involving four or more deaths and a list of courts of enquiry held for different accidents in coal mines since 1901 are given in Statement nos. 5.14 & 5.15 respectively.

## **SECTION – VI : MISCELLANEOUS**

With a view to give an idea in brief about the extent of trading activities in the coal industries, information on export and import of Coal & Coke has been collected from the Directorate General of Commercial Intelligence and Statistics. This information has been presented in statement No. 6.1.

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 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).

## CONTENTS

Table No.	Title	Page No.
<b>Section-I : EMPLOYMENT AND OUTPUT</b>		
1.1	Trend in average daily employment	1
1.2	Average daily employment: statewise	2
1.3	Average daily employment: ownerwise	5
1.4	Manshift worked: statewise	6
1.5	Manshift worked: ownerwise	8
1.6	Trend in output of coal	10
1.7	Raising, despatch and value of coal: statewise	11
1.8	Production of coal from belowground workings by mechanisation and method of work: statewise	14
1.9	Production of coal from belowground workings by mechanisation and method of work: ownerwise	16
1.10	Production of coal from opencast workings by mechanisation and overburden removed: statewise	17
1.11	Production of coal from opencast workings by mechanisation and overburden removed: ownerwise	19
1.12	Average daily employment and output by type of mine workings: statewise	20
1.13	Productivity in coal mines: statewise	24
1.14	Productivity in coal mines: ownerwise	26
1.15	Trend in productivity	28
<b>Section-II: GASSINESS</b>		
2.1	Trend in Employment and output from gassy Coal Mines having Degree - II or III Seams	29
2.2	Classification of belowground mines by degree of gassy seam: statewise	30
2.3	Belowground employment and output in Coal mines by degree of gassy seam: statewise	32
<b>Section-III: EXPLOSIVES</b>		
3.1	Trend in Consumption of Explosives	34
3.2	Explosives used in Coal Mines: statewise	35
<b>Section-IV: MACHINERIES</b>		
4.1	Trend in usage of machineries in belowground workings	37
4.2	Machineries used in belowground workings: statewise	38
4.3	Trend in usage of machineries in opencast workings	42
4.4	Machineries used in opencast workings: statewise	43
4.5	Machineries used in aboveground workings: statewise	47
4.6	Ventilators, winding engines, Pumps, CHP and workshop machineries used in coal mines: statewise	49
<b>Section-V: ACCIDENTS</b>		
5.0	Codes for classification of accidents by cause and place of occurrence	51
5.1	Trend in number of accidents in coal mines, resultant casualties/seriously injured persons and their rates	53
5.2	Trend in accident rates and placewise casualty rates in coal mines	54
5.3	Causewise trend in fatal accidents in coal mines	55

*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.*



<b>Table No.</b>	<b>Title</b>	<b>Page No.</b>
<b>5.4</b>	<b>Causewise trend in serious accidents in coal mines</b>	<b>56</b>
<b>5.5</b>	<b>Causewise trend in dangerous occurrences in coal mines</b>	<b>57</b>
<b>5.6a</b>	<b>Number of accidents and placewise casualties/seriously injured persons in coal mines by State and district during the year 2015</b>	<b>58</b>
<b>5.6b</b>	<b>Casualty/Serious Injury rates in coal mines by State and district during the year 2015</b>	<b>61</b>
<b>5.7a</b>	<b>Number of accidents and placewise casualties/seriously injured persons in coal mines for different companies in 2015</b>	<b>63</b>
<b>5.7b</b>	<b>Casualty/Serious Injury rates in coal mines for different companies in 2015</b>	<b>64</b>
<b>5.8</b>	<b>Number of accidents and casualties/seriously injured persons in coal mines by place and detailed cause in 2015</b>	<b>65</b>
<b>5.9</b>	<b>Number of fatal accidents in coal mines by major cause and responsibility during the year 2015</b>	<b>67</b>
<b>5.10</b>	<b>Causewise number of fatal accidents in coal mines for different companies in 2015</b>	<b>68</b>
<b>5.11</b>	<b>Causewise number of serious accidents in coal mines for different companies in 2015</b>	<b>69</b>
<b>5.12</b>	<b>Regionwise/Zonewise number of accidents and resultant casualties/seriously injured persons in coal mines in 2015</b>	<b>70</b>
<b>5.13</b>	<b>Summary of findings of fatal accidents during 2015</b>	<b>71</b>
<b>5.14</b>	<b>Details of Major accidents in coal mines involving 4 or more deaths during 1901-2015</b>	<b>98</b>
<b>5.15</b>	<b>Particulars of courts of enquiry instituted under the Mines Act to enquire into accidents in coal mines during 1901-2015</b>	<b>105</b>
<b>Section-VI: MISCELLANEOUS</b>		
<b>6.1</b>	<b>Export and import of coal, coke and lignite</b>	<b>109</b>

**SECTION – I**

**EMPLOYMENT**

**AND**

**OUTPUT**

**STATEMENT NO.1.1**  
**TREND IN AVERAGE DAILY EMPLOYMENT (IN THOUSAND)**

Year	Major States									Place of work			
	Andhra@ Pradesh	Chhatt- isgarh	Jhar- khand	Madhya@ Pradesh	Mahar- ashtra	Orissa	Tamil- nadu	Telan- gana	West Bengal	*All India	Below ground	Open- cast	Above ground
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1976	37.6	...	241.8	66.3	15.8	8.9	4.2	...	130.8	510	276	71	163
1981	41.2	...	225.9	76.9	19.3	10.3	5.3	...	129.1	513	302	55	156
1986	58.0	...	219.6	91.6	25.9	12.4	6.0	...	121.4	543	312	63	168
1991	73.5	...	214.2	97.1	31.6	14.4	5.3	...	109.2	554	316	67	171
1992	73.4	...	209.8	98.2	32.8	15.3	5.7	...	107.8	552	311	67	174
1993	75.8	...	202.4	97.8	32.5	15.2	6.9	...	106.8	546	308	68	170
1994	71.6	...	193.7	93.4	32.4	15.4	6.9	...	101.9	524	293	67	164
1995	72.2	...	187.5	94.2	32.1	15.6	6.9	...	96.3	513	287	68	158
1996	71.8	...	182.6	91.3	31.9	16.5	7.6	...	95.9	506	281	68	157
1997	70.7	...	176.2	93.8	33.1	16.5	7.0	...	96.8	503	279	68	156
1998	68.6	...	166.4	93.5	34.2	16.6	7.1	...	95.6	491	270	69	152
1999	68.6	...	158.1	90.3	32.8	17.7	7.4	...	87.8	476	258	71	147
2000	67.2	36.3	148.1	53.4	33.6	17.7	7.1	...	82.2	458	249	69	140
2001	65.4	35.4	141.1	49.8	31.3	16.0	7.4	...	79.5	438	239	69	130
2002	62.3	35.1	135.7	48.9	30.7	16.3	7.3	...	74.2	423	225	69	129
2003	60.6	35.1	129.2	49.4	30.5	18.4	9.1	...	72.9	417	216	69	132
2004	59.7	35.9	121.9	48.6	29.2	17.8	9.8	...	70.6	405	211	70	124
2005	58.7	36.1	118.8	45.2	22.9	17.4	12.1	...	69.5	399	205	70	124
2006	57.8	36.3	114.6	44.9	28.7	16.4	10.6	...	64.5	386	196	76	114
2007	55.9	33.3	113.5	45.3	27.6	16.6	12.8	...	63.2	379	188	80	111
2008	57.9	32.0	100.8	46.9	29.4	16.5	12.6	...	63.6	369	187	77	105
2009	62.9	32.2	101.1	44.5	29.3	18.4	10.8	...	62.4	374	186	80	108
2010	69.7	31.6	95.5	43.8	26.4	18.9	11.1	...	58.8	370	182	83	105
2011	65.4	32.6	94.9	45.4	27.5	19.2	9.0	...	56.2	366	178	86	102
2012	61.0	34.0	89.9	48.1	27.2	20.1	9.0	...	53.2	359	172	88	98
2013	59.1	34.3	91.2	46.3	27.8	21.4	9.0	...	52.8	358	168	87	103
2014	...	36.8	90.8	48.6	26.7	22.0	8.5	56.8	50.7	356	165	94	97
2015	---	36.2	94.0	44.4	26.7	21.2	7.1	56.5	51.2	353	161	96	96

\*- Includes other states.@ - Figures of Madhya Pradesh include Chhattisgarh prior to 2000.  
Figures of Andhra Pradesh include Telangana prior to 2013.

## STATEMENT NO. 1.2

## AVERAGE DAILY EMPLOYMENT IN COAL MINES DURING THE YEAR, 2015.

STATE/DISTRICT	NO. OF MINES	TOTAL EMPLOYMENT (INCLUDING CONTRACT)	CONTRACT EMPLOYMENT	BELOW GROUND WORKINGS				OPENCAST WORKINGS				ABOVE GROUND WORKINGS			OVERALL	
				OVERMEN & SIRDARS	MINERS & LOADERS	OTHER FACE WORKERS	TOTAL (INCLUDING OTHERS)	OVERMEN & SIRDARS	MINERS & LOADERS	OTHER FACE WORKERS	TOTAL INCLUDING OTHERS	CLERICAL & SUPERVISORY STAFF	OTHERS	TOTAL	MEN	WOMEN
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1. COAL																
ASSAM																
Tinsukia	4	1597	--	27	204	29	274	60	121	384	612	205	506	711	1537	60
CHHATTISGARH																
Bilaspur	2	516	--	29	--	383	423	--	--	--	--	28	65	93	516	--
Raigarh	12	6634	2633	418	1530	12	3736	216	338	--	1406	460	1032	1492	6624	10
Surguja	16	7124	1106	388	153	691	3907	115	169	324	1916	403	898	1301	7006	118
Korea	18	9007	628	749	42	1315	7235	6	--	12	42	389	1341	1730	8870	137
Korba	19	11517	2199	282	679	1212	3301	258	306	383	4546	1286	2384	3670	11323	194
Surajpur	2	758	107	35	--	--	591	54	--	54	109	28	30	58	754	4
TOTAL: CHHATTISGARH	69	35556	6673	1901	2404	3613	19193	649	813	773	8019	2594	5750	8344	35093	463
JHARKHAND																
Deoghar	3	2032	154	--	--	--	--	42	--	347	1006	215	811	1026	1848	184
Dhanbad	88	50567	4175	1591	1629	6707	27664	610	65	5203	11759	2973	8171	11144	48525	2042
Giridih	3	588	41	--	--	--	--	21	--	--	245	52	291	343	578	10
Godda	1	1917	--	--	--	--	--	44	--	--	849	80	988	1068	1756	161
Hazaribagh	34	13466	335	242	993	962	4418	311	312	932	4032	1094	3922	5016	12879	587
Palamau	4	1153	510	--	--	--	--	55	138	--	443	163	547	710	1151	2
Ranchi	6	3274	160	25	15	--	223	87	--	1062	1257	480	1314	1794	3022	252
Sahebganj	1	32	2	--	--	--	--	2	--	14	22	3	7	10	30	2
Bokaro	21	10406	285	115	564	859	2207	255	377	2266	4570	1180	2449	3629	9578	828
Pakur	1	1889	1272	--	--	--	--	20	--	273	460	80	1349	1429	1889	--
Chatra	3	2938	1001	20	3	--	331	99	--	163	1817	156	634	790	2863	75
Latehar	1	97	33	--	--	--	--	8	8	--	58	12	27	39	97	--
Ramgarh	3	1348	--	22	41	219	403	23	308	--	681	189	75	264	1300	48
TOTAL: JHARKHAND	169	89707	7968	2015	3245	8747	35246	1577	1208	10260	27199	6677	20585	27262	85516	4191
JAMMU & KASHMIR																
Rajauri	1	304	--	7	149	--	241	--	--	--	--	8	55	63	304	--
MADHYA PRADESH																
Narsigpur	1	20	--	--	--	--	--	--	--	--	--	--	20	20	20	--
Betul	7	4325	74	260	139	1797	3866	--	--	--	--	109	350	459	4303	22
Chhindwara	24	5809	571	306	482	1890	4542	35	2	82	305	208	754	962	5682	127
Shahdol	28	13829	1695	742	1389	2070	9319	93	125	87	637	1007	2866	3873	13600	229
Sidhi	4	9922	3215	--	--	--	--	178	20	4175	6146	838	2938	3776	9763	159
Umaria	8	5868	582	358	19	1465	4483	19	--	--	84	314	987	1301	5779	89
Anuppur	3	2015	398	87	--	479	1305	32	--	--	474	73	163	236	2007	8
Singrauli	3	2421	775	--	--	--	--	82	65	518	1745	176	500	676	2408	13
TOTAL: MADHYA PRADESH	78	44209	7310	1753	2029	7701	23515	439	212	4862	9391	2725	8578	11303	43562	647

## STATEMENT NO. 1.2(cont.)

## AVERAGE DAILY EMPLOYMENT IN COAL MINES DURING THE YEAR, 2015.

STATE/DISTRICT	NO.OF MINES	TOTAL EMPLOY- MENT (INCLU- ING CONTRACT)	CONT- RACT EMPLO- YMENT	BELOW GROUND WORKINGS				OPENCAST WORKINGS				ABOVE GROUND WORKINGS			OVERALL	
				OVERMEN & SIRDARS	MINERS & LOADERS	OTHER FACE WORKERS	TOTAL (INCLU- DING OTHERS	OVERMEN & SIRDARS	MINERS & LOADERS	OTHER FACE WORKERS	TOTAL INCLUD- ING OTHERS	CLERICAL & SUPER- VISORY STAFF	OTHERS	TOTAL	MEN	WOMEN
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
MAHARASHTRA																
Chandrapur	30	12501	962	310	32	791	3988	276	--	1397	2665	1425	4423	5848	12157	344
Nagpur	15	7369	486	248	836	2203	3814	119	222	480	1368	511	1676	2187	7257	112
Yavatmal	14	5159	178	59	--	--	1053	193	98	431	2284	503	1319	1822	5075	84
TOTAL: MAHARASHTRA	59	25029	1626	617	868	2994	8855	588	320	2308	6317	2439	7418	9857	24489	540
ORISSA																
Angul	13	13544	5108	96	185	886	1880	330	--	19	6454	893	4317	5210	13078	466
Sambalpur	1	61	5	--	--	--	--	8	--	--	20	15	26	41	61	--
Sundergarh	2	1129	614	--	--	--	--	108	--	--	910	79	140	219	1121	8
Jharsuguda	10	6461	1981	160	23	759	2109	159	246	926	2775	603	974	1577	6360	101
TOTAL: ORISSA	26	21195	7708	256	208	1645	3989	605	246	945	10159	1590	5457	7047	20620	575
Telangana																
Adilabad	22	17564	1722	735	3170	1578	13320	188	258	646	3087	236	921	1157	17407	157
Karimnagar	18	20576	972	779	1467	1409	15988	63	303	498	1896	490	2202	2692	20491	85
Khammam	12	8613	1614	145	199	307	3173	103	478	1020	3544	178	1718	1896	8546	67
Warangal	6	5001	77	251	566	1024	4354	14	--	--	230	116	301	417	4996	5
TOTAL: Telangana	58	51754	4385	1910	5402	4318	36835	368	1039	2164	8757	1020	5142	6162	51440	314
UTTAR PRADESH																
Sonebhadra	5	9053	3853	--	--	--	--	109	152	767	3794	401	4858	5259	8733	320
WEST BENGAL																
Bankura	5	1596	161	23	--	--	487	70	--	243	563	119	427	546	1574	22
Birbhum	2	177	--	--	--	--	--	14	--	--	165	7	5	12	177	--
Burdwan	93	47203	4061	1519	1797	7355	29415	316	299	1308	4755	2632	10401	13033	45356	1847
Purulia	2	1371	--	56	195	--	990	--	--	--	--	64	317	381	1371	--
TOTAL: WEST BENGAL	102	50347	4222	1598	1992	7355	30892	400	299	1551	5483	2822	11150	13972	48478	1869
ALL INDIA : COAL	571	328751	43745	10084	16501	36402	159040	4795	4410	24014	79731	20481	69499	89980	319772	8979



## STATEMENT NO. 1.2(cont.)

## AVERAGE DAILY EMPLOYMENT IN COAL MINES DURING THE YEAR, 2015.

STATE/DISTRICT	NO.OF MINES	TOTAL EMPLOY- MENT (INCLU- ING CONTRACT)	CONT- RACT EMPLO- YMENT	BELOW GROUND WORKINGS				OPENCAST WORKINGS				ABOVE GROUND WORKINGS			OVERALL	
				OVERMEN & SIRDARS	MINERS & LOADERS	OTHER FACE WORKERS	TOTAL (INCLU- DING OTHERS	OVERMEN & SIRDARS	MINERS & LOADERS	OTHER FACE WORKERS	TOTAL INCLUD- ING OTHERS	CLERICAL & SUPER- VISORY STAFF	OTHERS	TOTAL	MEN	WOMEN
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2. LIGNITE																
GUJARAT																
Bharuch	2	696	485	--	--	--	--	46	41	--	534	76	86	162	690	6
Bhavanagar	2	396	313	--	--	--	--	16	--	--	182	99	115	214	394	2
Kutch	3	1545	1145	--	--	--	--	128	--	--	1013	90	442	532	1529	16
Surat	3	332	256	--	--	--	--	53	--	--	285	15	32	47	331	1
TOTAL: GUJARAT	10	2969	2199	--	--	--	--	243	41	--	2014	280	675	955	2944	25
RAJASTHAN																
Barmer	4	1042	813	--	--	--	--	23	163	74	685	79	278	357	1042	--
Bikaner	2	281	139	--	--	--	--	14	--	--	274	7	--	7	281	--
Nagaur	1	75	54	--	--	--	--	8	--	--	58	5	12	17	75	--
TOTAL: RAJASTHAN	7	1398	1006	--	--	--	--	45	163	74	1017	91	290	381	1398	--
TAMILNADU																
Cuddalore	2	7106	3495	--	--	--	--	72	--	--	6740	275	91	366	7071	35
ALL INDIA : LIGNITE	19	11473	6700	--	--	--	--	360	204	74	9771	646	1056	1702	11413	60
ALL INDIA : ALL COAL	590	340224	50445	10084	16501	36402	159040	5155	4614	24088	89502	21127	70555	91682	331185	9039

## STATEMENT NO. 1.3

## AVERAGE DAILY EMPLOYMENT IN COAL MINES DURING THE YEAR, 2015 : OWNERWISE

OWNER	NO. OF MINES	TOTAL EMPLOYMENT (INCLUDING CONTRACT)	CONTRACT EMPLOYMENT	BELOW GROUND WORKINGS				OPENCAST WORKINGS				ABOVE GROUND WORKINGS			OVERALL	
				OVERMEN & SIRDARS	MINERS & LOADERS	OTHER FACE WORKERS	TOTAL (INCLUDING OTHERS)	OVERMEN & SIRDARS	MINERS & LOADERS	OTHER FACE WORKERS	TOTAL INCLUDING OTHERS	CLERICAL & SUPERVISORY STAFF	OTHERS	TOTAL	MEN	WOMEN
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
BCCL	70	41444	1822	1143	1116	5042	20162	587	65	4984	11234	2600	7448	10048	39595	1849
CCL	64	30441	1563	373	1616	2040	6595	778	1026	4423	12358	3055	8433	11488	28694	1747
ECL	109	53950	1996	1751	1992	8672	33749	300	299	1828	5171	2701	12329	15030	51499	2451
MCL	25	21134	7703	256	208	1645	3989	597	246	945	10139	1575	5431	7006	20559	575
NCL	10	20327	7729	--	--	--	--	302	172	4942	10716	1315	8296	9611	19839	488
NEC	4	1597	--	27	204	29	274	60	121	384	612	205	506	711	1537	60
SECL	95	50317	6493	2692	2529	7627	30754	605	739	860	7643	3453	8467	11920	49532	785
WCL	83	33897	1702	1135	1373	6681	16665	595	322	2032	6144	2671	8417	11088	33209	688
CIL	460	253107	29008	7377	9038	31736	112188	3824	2990	20398	64017	17575	59327	76902	244464	8643
JSMDC	1	97	33	--	--	--	--	8	8	--	58	12	27	39	97	--
DVC	1	113	--	--	--	--	--	6	11	--	45	36	32	68	108	5
GMDC	6	2466	1759	--	--	--	--	199	41	--	1694	192	580	772	2441	25
IISCO	4	1963	707	94	38	51	1064	33	--	60	460	142	297	439	1961	2
J&K Min.	1	304	--	7	149	--	241	--	--	--	--	8	55	63	304	--
NLC	3	7286	3634	--	--	--	--	79	--	--	6913	282	91	373	7251	35
SCCL	58	51754	4385	1910	5402	4318	36835	368	1039	2164	8757	1020	5142	6162	51440	314
TISCO	8	5473	1567	252	475	297	4568	18	--	--	342	214	349	563	5469	4
RSMDC	1	55	30	--	--	--	--	6	18	7	41	9	5	14	55	--
PIL	2	261	82	--	--	--	--	14	--	--	216	28	17	45	261	--
GIPCL	3	380	332	--	--	--	--	37	--	--	313	20	47	67	380	--
GHCL	1	123	108	--	--	--	--	7	--	--	7	68	48	116	123	--
JSPL	1	545	106	--	--	--	--	31	--	--	350	72	123	195	545	--
BENGALMTA	3	557	281	--	--	--	--	39	--	--	471	22	64	86	557	--
BLAI	1	20	--	--	--	--	--	--	--	--	--	--	20	20	20	--
ICML	1	1206	1140	--	--	--	--	42	--	--	688	232	286	518	1206	--
MIL	1	1874	817	71	1283	--	1569	--	--	--	--	86	219	305	1872	2
CTL	1	45	41	--	--	--	--	2	--	--	4	5	36	41	45	--
RSMML	3	258	107	--	--	--	--	17	81	9	212	30	16	46	258	--
PCML	1	1889	1272	--	--	--	--	20	--	273	460	80	1349	1429	1889	--
JNL	1	1126	735	105	--	--	742	26	--	--	124	17	243	260	1126	--
RASL	1	139	112	--	--	--	--	14	86	--	110	7	22	29	139	--
SISCL	2	644	549	32	--	--	384	22	113	--	174	35	51	86	644	--
ELCALTD	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VSLPPL	1	101	--	--	--	--	--	7	--	--	101	--	--	--	101	--
WBMD&TCL	1	402	--	--	--	--	--	18	--	--	79	36	287	323	402	--
UML	1	392	303	--	--	--	--	21	98	--	170	45	177	222	392	--
DVC EMTA	1	331	55	--	--	--	--	20	--	243	309	22	--	22	331	--
SEML	1	59	59	--	--	--	--	4	--	--	45	2	12	14	59	--
TUML	1	69	46	--	--	--	--	7	--	--	58	11	--	11	69	--
MSMCL	2	607	114	4	--	--	108	42	--	--	275	87	137	224	607	--
SPL	1	741	--	--	--	--	--	25	65	518	694	47	--	47	737	4
BLMCL	1	804	730	--	--	--	--	8	64	58	490	45	269	314	804	--
HIL	4	2180	586	207	--	--	1117	77	--	--	138	247	678	925	2176	4
UCL	1	35	23	--	--	--	--	--	--	--	--	10	25	35	35	--
BALCO	1	268	100	--	--	--	--	14	--	--	167	13	88	101	268	--
PCL	1	106	39	15	--	--	67	--	--	--	--	9	30	39	106	--
JAL	2	150	59	7	92	--	116	--	--	--	--	5	29	34	149	1
SOVA	1	150	58	--	--	--	--	22	--	--	92	26	32	58	150	--
RRVUN Ltd.	1	464	323	--	--	--	--	15	--	--	359	52	53	105	464	--
KECML	1	413	--	--	--	--	--	17	--	358	375	32	6	38	413	--
CESC	1	1212	1145	--	--	--	--	46	--	--	694	232	286	518	1212	--
JCCL	1	55	--	3	24	--	41	--	--	--	--	14	--	14	55	--
ALL INDIA	590	340224	50445	10084	16501	36402	159040	5155	4614	24088	89502	21127	70555	91682	331185	9039

## STATEMENT NO. 1.4

## MANSHIFTS WORKED IN COAL MINES DURING THE YEAR, 2015.

STATE/DISTRICT	BELOWGROUND	OPENCAST	ABOVEGROUND	TOTAL
1	2	3	4	5
1.COAL				
ASSAM				
Tinsukia	83275	191117	220224	494616
CHHATTISGARH				
Bilaspur	153665	--	33944	187609
Raigarh	1287013	329826	453107	2069946
Surguja	1293369	639135	464405	2396909
Korea	2617805	14897	603212	3235914
Korba	1175153	1508652	1027543	3711348
Surajpur	215785	39873	21197	276855
TOTAL: CHHATTISGARH	6742790	2532383	2603408	11878581
JHARKHAND				
Deoghar	--	364651	335516	700167
Dhanbad	8403798	3728425	3450860	15583083
Giridih	--	81420	114987	196407
Godda	--	305640	384480	690120
Hazaribagh	1337239	1290785	1626489	4254513
Palamau	--	131941	187552	319493
Ranchi	68896	483137	629319	1181352
Sahebganj	--	6885	3010	9895
Bokaro	613473	1453081	1113583	3180137
Pakur	--	140074	441713	581787
Chatra	100943	663412	279177	1043532
Latehar	--	17516	11476	28992
Ramgarh	123318	227907	85478	436703
TOTAL: JHARKHAND	10647667	8894874	8663640	28206181
JAMMU & KASHMIR				
Rajauri	73264	--	19152	92416
MADHYA PRADESH				
Narsigpur	--	--	5500	5500
Betul	1348476	--	158171	1506647
Chhindwara	1379928	119950	313558	1813436
Shahdol	3758645	219242	1292572	5270459
Sidhi	--	1765967	1126554	2892521
Umaria	1684494	27407	450461	2162362
Anuppur	472974	173118	84961	731053
Singrauli	--	448256	205814	654070
TOTAL: MADHYA PRADESH	8644517	2753940	3637591	15036048
MAHARASHTRA				
Chandrapur	1336052	879080	1920594	4135726
Nagpur	1230815	415568	710387	2356770
Yavatmal	243052	777797	572888	1593737
TOTAL: MAHARASHTRA	2809919	2072445	3203869	8086233
ORISSA				

## STATEMENT NO. 1.4 (cont.)

## MANSHIFTS WORKED IN COAL MINES DURING THE YEAR, 2015.

STATE/DISTRICT	BELOWGROUND	OPENCAST	ABOVEGROUND	TOTAL
1	2	3	4	5
Angul	581269	2126640	1653885	4361794
Sambalpur	--	3367	6350	9717
Sundergarh	--	331475	70093	401568
Jharsuguda	640592	864266	515563	2020421
TOTAL: ORISSA	1221861	3325748	2245891	6793500
Telangana				
Adilabad	4034380	704933	444160	5183473
Karimnagar	4745006	637447	891367	6273820
Khammam	965011	1157506	583945	2706462
Warangal	1327640	69864	125747	1523251
TOTAL: Telangana	11072037	2569750	2045219	15687006
UTTAR PRADESH				
Sonebhadra	--	1219819	1324642	2544461
WEST BENGAL				
Bankura	131375	180505	194816	506696
Birbhum	--	50083	3107	53190
Burdwan	9690646	1282038	3954155	14926839
Purulia	301794	--	116198	417992
TOTAL: WEST BENGAL	10123815	1512626	4268276	15904717
ALL INDIA : COAL	51419145	25072702	28231912	104723759
2. LIGNITE				
GUJARAT				
Bharuch	--	173237	51763	225000
Bhavanagar	--	63576	72728	136304
Kutch	--	277692	172819	450511
Surat	--	101802	16746	118548
TOTAL: GUJARAT	--	616307	314056	930363
RAJASTHAN				
Barmer	--	229992	124106	354098
Bikaner	--	99315	2176	101491
Nagaur	--	18212	5286	23498
TOTAL: RAJASTHAN	--	347519	131568	479087
TAMILNADU				
Cuddalore	--	2018925	72722	2091647
ALL INDIA : LIGNITE	--	2982751	518346	3501097
ALL INDIA : ALL COAL	51419145	28055453	28750258	108224856

## STATEMENT NO. 1.5

MANSHIFTS WORKED IN COAL MINES DURING THE YEAR, 2015 : OWNERWISE

OWNER	BELOWGROUND	OPENCAST	ABOVEGROUND	TOTAL
1	2	3	4	5
BCCL	6123315	3548995	3109661	12781971
CCL	1946278	4123884	3742952	9813114
ECL	10984714	1729666	4810535	17524915
MCL	1221861	3322381	2239541	6783783
NCL	--	3137730	2625803	5763533
NEC	83275	191117	220224	494616
SECL	11441448	2591589	3888416	17921453
WCL	5368221	2042300	3616959	11027480
CIL	37169112	20687662	24254091	82110865
JSMDC	--	17516	11476	28992
DVC	--	14040	19968	34008
GMDC	--	500318	249024	749342
IISCO	327155	140094	136621	603870
J&K Min.	73264	--	19152	92416
NLC	--	2081940	74898	2156838
SCCL	11072037	2569750	2045219	15687006
TISCO	1390020	103753	171561	1665334
RSMDC	--	12306	4085	16391
PIL	--	62118	13770	75888
GIPCL	--	113425	24556	137981
GHCL	--	2564	40476	43040
JSPL	--	4863	31234	36097
BENGALEMTA	--	159725	29730	189455
BLAI	--	--	5500	5500
ICML	--	50912	38327	89239
MIL	572634	--	111328	683962
CTL	--	1440	14757	16197



## STATEMENT NO. 1.5(cont.)

MANSHIFTS WORKED IN COAL MINES DURING THE YEAR, 2015 : OWNERWISE

OWNER	BELOWGROUND	OPENCAST	ABOVEGROUND	TOTAL
1	2	3	4	5
RSMML	--	59543	12246	71789
PCML	--	140074	441713	581787
JNL	226310	37820	79300	343430
RASL	--	33846	6246	40092
SISCL	119051	60692	46114	225857
ELCALTD	--	--	--	--
VSLPPL	--	36300	--	36300
WBMD&TCL	--	24095	98515	122610
UML	--	51924	63419	115343
DVC EMTA	--	94322	23377	117699
SEML	--	16425	5110	21535
TUML	--	21170	4015	25185
MSMCL	34618	88054	71404	194076
SPL	--	208258	14163	222421
BLMCL	--	176355	113061	289416
HIL	380354	31465	239291	651110
UCL	--	--	2785	2785
BALCO	--	39078	23634	62712
PCL	20435	--	11895	32330
JAL	29767	--	12193	41960
SOVA	--	33120	20880	54000
RRVUN Ltd.	--	106874	32007	138881
KECML	--	112500	11400	123900
CESC	--	161112	120197	281309
JCCL	4388	--	1520	5908
ALL INDIA	51419145	28055453	28750258	108224856

STATEMENT NO.1.6  
TREND IN OUTPUT OF COAL

YEAR	MAJOR STATES (IN MILLION TONNES)								PLACE OF WORK (IN '000 TONNES)				
	ANDHRA@ PRADESH	CHHATT- ISGARH	JHAR- KHAND	MADHYA@ PRADESH	MAHA- RASHTRA	ORISSA	TAMIL- NADU	TELA- NGANA	WEST BENGAL	ALL* INDIA	BELOW- GROUND	OPEN- CAST	TOTAL
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1976	7.9	...	42.4	20.1	3.6	2.1	3.9	...	24.0	104.6	76,199	28,440	104,639
1981	11.2	...	49.6	27.4	6.8	3.2	5.6	...	20.4	127.3	76,205	51,120	127,325
1986	16.2	...	56.7	44.2	11.9	6.9	7.8	...	19.7	170.2	75,027	95,132	170,159
1991	19.6	...	68.6	70.7	18.8	19.7	12.1	...	17.4	237.8	70,731	167,026	237,757
1992	20.8	...	70.4	73.9	20.5	22.9	12.8	...	17.3	249.9	71,062	178,879	249,941
1993	24.7	...	73.7	76.0	19.8	23.8	13.5	...	16.5	260.6	73,672	186,935	260,607
1994	24.7	...	73.8	77.0	20.3	26.4	13.7	...	16.7	267.5	70,644	196,878	267,522
1995	25.6	...	72.9	82.8	22.4	31.3	17.4	...	16.5	284.6	68,512	216,074	284,586
1996	29.1	...	78.6	85.7	23.5	36.2	17.7	...	17.3	304.1	70,127	233,970	304,097
1997	28.8	...	80.7	88.8	26.1	41.0	17.9	...	17.0	316.7	69,062	247,619	316,681
1998	27.8	...	77.4	90.3	25.8	44.8	18.1	...	19.2	319.9	68,571	251,324	319,895
1999	30.0	...	74.7	84.6	26.2	42.1	17.7	...	17.9	315.2	68,101	247,088	315,198
2000	29.5	50.5	77.8	39.4	29.4	45.7	17.6	...	19.2	334.3	66,225	268,092	334,317
2001	30.8	54.2	75.2	40.6	30.8	45.6	18.6	...	20.0	341.5	64,134	277,379	341,513
2002	34.0	56.4	81.8	42.5	31.9	51.2	17.7	...	19.5	363.3	65,330	297,981	363,311
2003	33.4	59.8	78.1	51.3	30.1	56.7	20.8	...	20.9	379.2	63,632	315,556	379,188
2004	34.5	68.5	78.2	55.2	33.1	66.6	20.8	...	21.6	409.3	61,921	347,347	409,268
2005	35.6	74.8	80.4	48.9	36.4	69.9	18.2	...	24.3	420.8	64,086	356,759	420,845
2006	39.6	80.5	79.9	50.0	36.8	68.0	19.3	...	22.0	430.3	61,213	369,120	430,333
2007	45.7	86.1	88.1	52.0	35.5	84.1	22.3	...	21.5	481.1	62,302	418,821	481,123
2008	48.3	93.7	98.8	60.6	37.1	86.3	20.4	...	22.4	506.3	66,290	440,004	506,294
2009	61.4	104.3	110.1	57.7	38.8	100.2	21.5	...	23.0	558.8	66,835	491,982	558,817
2010	74.9	121.0	114.5	59.3	39.3	104.0	22.2	...	21.7	601.9	69,998	531,880	601,878
2011	78.0	123.5	113.2	58.0	42.2	100.9	23.4	...	21.9	607.3	69,031	538,240	607,272
2012	73.1	123.3	117.6	49.3	40.2	110.0	24.8	...	26.4	618.0	64,341	553,628	617,969
2013	58.7	121.1	100.1	62.0	39.8	103.4	25.3	...	27.3	589.5	64,746	524,767	589,513
2014	...	134.6	108.7	63.2	42.6	123.9	23.9	72.9	29.9	650.6	64,367	586,229	650,596
2015	...	134.8	118.7	87.1	41.4	131.4	9.9	66.2	28.6	672.7	64,910	607,827	672,737

\* -Includes others states. @ Figures of Madhya Pradesh include Chhattisgarh prior to 2000.  
@ Figures of Andhra Pradesh include Telangana prior to 2013.

## STATEMENT NO. 1.7

## RAISING, DESPATCH AND VALUE OF COAL DURING THE YEAR, 2015.

( IN TONNES )

STATE/DISTRICT	NUMBER OF MINES	OPENING STOCK *	RAISING	RECEIPT/ SURPLUS	COAL USED FOR COKE MAKING	COLLIERY CONSUMPTION	TRANSFER/ SHORTAGE/ REJECTION	DESPATCH	CLOSING STOCK	VALUE OF COAL RAISED ('000 RS.)
1	2	3	4	5	6	7	8	9	10	11
1. COAL										
ASSAM										
Tinsukia	4	74199	650080	3279	--	12	2751	574847	149948	1730425
CHHATTISGARH										
Bilaspur	2	13609	185260	--	--	57	85855	68156	44801	185260
Raigarh	12	6371498	15254025	--	--	444	--	15810074	5815005	24105173
Surguja	16	321117	10958446	1622144	--	1308	1706943	9924669	1268787	13516097
Korea	18	102561	5100975	1477700	60	223688	1017773	5204355	235360	15103370
Korba	19	4855120	102256872	1211184	--	86	770371	103203747	4348972	93741191
Surajpur	2	300182	1025741	--	--	--	--	1173059	152864	1025741
TOTAL : CHHATTISGARH	69	11964087	134781319	4311028	60	225583	3580942	135384060	11865789	147676832
JHARKHAND										
Deoghar	3	151389	3399528	499509	--	3629	499509	3137633	409655	6605999
Dhanbad	88	5883969	34964870	3255333	--	67811	3051632	36510793	4473936	52353843
Giridih	3	380886	636054	237293	--	240	237296	725518	291179	636054
Godda	1	378795	15005193	90526	--	612	--	14539145	934757	15005193
Hazaribagh	34	2973183	15852403	1544978	--	765	2462356	15502098	2405345	68294976
Palamau	4	791244	1979289	--	--	--	--	2418823	351710	2204468
Ranchi	6	745028	6037477	5075891	--	--	--	11343134	515262	16758958
Sahebganj	1	121482	--	--	--	54	90527	--	30901	--
Bokaro	21	1642986	17275024	3133460	--	734	2635409	17365987	2049340	31735902
Pakur	1	164248	381692	--	--	--	--	377327	168613	550305
Chatra	3	1421558	21754170	--	--	--	1394550	20779077	1002101	21829499
Latehar	1	377	255900	--	--	--	--	255900	377	527633
Ramgarh	3	441196	1133200	--	--	308	48363	966804	558921	4579185
TOTAL : JHARKHAND	169	15096341	118674800	13836990	--	74153	10419642	123922239	13192097	221082015
JAMMU & KASHMIR										
Rajauri	1	5497	10468	--	--	48	--	6552	9365	64535
MADHYA PRADESH										
Narsigpur	1	10	--	--	--	--	--	10	--	--
Betul	7	34773	3204883	--	--	376	--	3216563	22717	4953702
Chhindwara	24	205756	3566519	358380	--	1414	1086716	2604129	438396	3541814
Shahdol	28	729212	11339655	4060109	--	990	1206957	14120383	800646	76849326
Sidhi	4	743717	43280000	--	--	--	--	42605853	1417864	80247561
Umaria	8	62392	2295139	1668862	--	600	1007405	2873944	144444	4584176
Anuppur	3	110050	2307236	--	--	180	356726	1485696	574684	3230666
Singrauli	3	337673	21126832	--	--	--	--	20932533	531972	20754010
TOTAL : MADHYA PRADESH	78	2223583	87120264	6087351	--	3560	3657804	87839111	3930723	194161255

## STATEMENT NO. 1.7(cont.)

## RAISING, DESPATCH AND VALUE OF COAL DURING THE YEAR, 2015.

( IN TONNES )

STATE/DISTRICT	NUMBER OF MINES	OPENING STOCK *	RAISING	RECEIPT/SURPLUS	COAL USED FOR COKE MAKING	COLLIERY CONSUMPTION	TRANSFER/SHORTAGE/REJECTION	DESPATCH	CLOSING STOCK	VALUE OF COAL RAISED ('000 RS.)
1	2	3	4	5	6	7	8	9	10	11
MAHARASHTRA										
Chandrapur	30	787447	17015859	6642432	--	2860	3894235	19490456	1058187	19108551
Nagpur	15	434552	10234568	4478686	--	1372120	581138	12964924	229624	15564027
Yavatmal	14	1924463	14178996	--	--	201	--	13808210	2295048	15944428
<b>TOTAL : MAHARASHTRA</b>	<b>59</b>	<b>3146462</b>	<b>41429423</b>	<b>11121118</b>	<b>--</b>	<b>1375181</b>	<b>4475373</b>	<b>46263590</b>	<b>3582859</b>	<b>50617006</b>
ORISSA										
Angul	13	4023674	79253619	17557153	--	4646	16857750	80759786	3212264	151852700
Sambalpur	1	--	259804	--	--	--	--	198554	61250	259804
Sundergarh	2	5285580	10126448	3521175	--	--	--	16206531	2726672	6913578
Jharsuguda	10	1894249	41763770	6731204	--	--	2446390	46070623	1872210	42602703
<b>TOTAL : ORISSA</b>	<b>26</b>	<b>11203503</b>	<b>131403641</b>	<b>27809532</b>	<b>--</b>	<b>4646</b>	<b>19304140</b>	<b>143235494</b>	<b>7872396</b>	<b>201628785</b>
Telangana										
Adilabad	22	724066	16196913	--	--	--	--	15402262	1518717	29456890
Karimnagar	18	138226	19743206	1143250	--	--	--	20717374	307308	37116539
Khammam	12	559445	27409811	--	--	--	--	27623155	346101	35624069
Warangal	6	69702	2879334	--	--	72	--	2465270	483694	5287514
<b>TOTAL : Telangana</b>	<b>58</b>	<b>1491439</b>	<b>66229264</b>	<b>1143250</b>	<b>--</b>	<b>72</b>	<b>--</b>	<b>66208061</b>	<b>2655820</b>	<b>107485012</b>
UTTAR PRADESH										
Sonebhadra	5	606654	33624300	80545	--	--	3400156	28530212	2381131	33400682
WEST BENGAL										
Bankura	5	36975	2212647	--	--	78	87156	2137016	25372	5056534
Birbhum	2	16746	398006	--	--	--	--	404844	9908	913513
Burdwan	93	1838269	25879342	4375644	--	463063	4039693	25728901	1861598	39082677
Purulia	2	17304	150141	--	--	275	--	161743	5427	538810
<b>TOTAL : WEST BENGAL</b>	<b>102</b>	<b>1909294</b>	<b>28640136</b>	<b>4375644</b>	<b>--</b>	<b>463416</b>	<b>4126849</b>	<b>28432504</b>	<b>1902305</b>	<b>45591534</b>
<b>ALL INDIA : COAL</b>	<b>571</b>	<b>47721059</b>	<b>642563695</b>	<b>68768737</b>	<b>60</b>	<b>2146671</b>	<b>48967657</b>	<b>660396670</b>	<b>47542433</b>	<b>1003438081</b>
2. LIGNITE										
GUJARAT										
Bharuch	2	--	3151000	--	--	--	--	3151000	--	3967012
Bhavanagar	2	19089	1108105	--	--	--	--	1126292	902	2291238

## STATEMENT NO. 1.7(cont.)

## RAISING, DESPATCH AND VALUE OF COAL DURING THE YEAR, 2015.

( IN TONNES )

STATE/DISTRICT	NUMBER OF MINES	OPENING STOCK *	RAISING	RECEIPT/SURPLUS	COAL USED FOR COKE MAKING	COLLIERY CONSUMPTION	TRANSFER/SHORTAGE/REJECTION	DESPATCH	CLOSING STOCK	VALUE OF COAL RAISED ('000 RS.)
1	2	3	4	5	6	7	8	9	10	11
Kutch	3	--	5341073	--	--	--	--	5341073	--	6359046
Surat	3	--	1646070	--	--	--	--	1646070	--	2067884
TOTAL : GUJARAT	10	19089	11246248	--	--	--	--	11264435	902	14685180
RAJASTHAN										
Barmer	4	2598	6527676	--	--	--	--	6522106	8168	7542526
Bikaner	2	53204	2291643	--	--	--	--	2294109	50738	16819015
Nagaur	1	--	178690	--	--	--	--	178690	--	281600
TOTAL : RAJASTHAN	7	55802	8998009	--	--	--	--	8994905	58906	24643141
TAMILNADU										
Cuddalore	2	937064	9929194	246896	--	--	--	10483880	629274	25978248
ALL INDIA : LIGNITE	19	1011955	30173451	246896	--	--	--	30743220	689082	65306569
ALL INDIA : All COAL	590	48733014	672737146	69015633	60	2146671	48967657	691139890	48231515	1068744650

\* : Figures of opening stock may not tally with the figures of closing stock of last year due to subsequent revision of closing stock by some mines.□



## STATEMENT NO. 1.8

PRODUCTION OF COAL FROM BELOWGROUND WORKINGS BY MECHANISATION AND METHOD OF WORK DURING THE YEAR, 2015  
( IN TONNES )

STATE/DISTRICT	TOTAL BELOW- GROUND OUTPUT	M E C H A N I S A T I O N				M E T H O D O F W O R K			
		FULLY MECHA- NISED	SEMI MECHA- NISED	M A N U A L		B O A R D & P I L L A R			L O N G W A L L
				SOLID BLAST- ING	OTHERS	DEVELO- P M E N T	DEPILL- A R I N G, C A V I N G / S T O W I N G	S P L I T T - I N G A S F I N A L O P E R A T I O N	
1	2	3	4	5	6	7	8	9	10
ASSAM									
Tinsukia	3235	--	--	3235	--	3235	--	--	--
CHHATTISGARH									
Bilaspur	185260	--	--	185260	--	185260	--	--	--
Raigarh	1748766	--	--	1748766	--	352775	1395991	--	--
Surguja	1531128	--	--	1531128	--	749093	782035	--	--
Korea	5082702	156868	--	4925834	--	3240378	1842324	--	--
Korba	2055241	--	--	2055241	--	1270790	784451	--	--
Surajpur	202515	--	--	202515	--	85860	116655	--	--
TOTAL : CHHATTISGARH	10805612	156868	--	10648744	--	5884156	4921456	--	--
JHARKHAND									
Deoghar	--	--	--	--	--	--	--	--	--
Dhanbad	6019122	183401	371340	5464381	--	2195818	3823304	--	--
Giridih	--	--	--	--	--	--	--	--	--
Godda	--	--	--	--	--	--	--	--	--
Hazaribagh	2372981	--	--	2372981	--	210138	2162843	--	--
Palamau	--	--	--	--	--	--	--	--	--
Ranchi	27535	--	--	27535	--	27535	--	--	--
Sahebganj	--	--	--	--	--	--	--	--	--
Bokaro	298368	--	--	298368	--	162401	135967	--	--
Pakur	--	--	--	--	--	--	--	--	--
Chatra	39111	--	--	39111	--	--	39111	--	--
Latehar	--	--	--	--	--	--	--	--	--
Ramgarh	46748	--	--	46748	--	46748	--	--	--
TOTAL : JHARKHAND	8803865	183401	371340	8249124	--	2642640	6161225	--	--
JAMMU & KASHMIR									
Rajauri	10468	--	--	10468	--	10468	--	--	--
MADHYA PRADESH									
Narsigpur	--	--	--	--	--	--	--	--	--
Betul	3204883	--	--	3204883	--	127606	3077277	--	--
Chhindwara	1660266	--	--	1660266	--	877812	782454	--	--
Shahdol	6584591	--	--	6584591	--	1549491	5035100	--	--
Sidhi	--	--	--	--	--	--	--	--	--
Umaria	1556508	--	--	1556508	--	424836	1131672	--	--
Anuppur	612041	--	--	612041	--	--	612041	--	--
Singrauli	--	--	--	--	--	--	--	--	--
TOTAL : MADHYA PRADESH	13618289	--	--	13618289	--	2979745	10638544	--	--
MAHARASHTRA									
Chandrapur	1169691	140725	--	1028966	--	247851	921840	--	--
Nagpur	1613692	--	--	1613692	--	594976	1018716	--	--
Yavatmal	216080	--	--	216080	--	79821	136259	--	--
TOTAL : MAHARASHTRA	2999463	140725	--	2858738	--	922648	2076815	--	--
ORISSA									
Angul	295542	--	--	295542	--	74639	220903	--	--
Sambalpur	--	--	--	--	--	--	--	--	--
Sundergarh	--	--	--	--	--	--	--	--	--
Jharsuguda	1124603	--	31872	1092731	--	511121	613482	--	--
TOTAL : ORISSA	1420145	--	31872	1388273	--	585760	834385	--	--
Telangana									
Adilabad	3917334	210219	814085	2893030	--	917178	3000156	--	--
Karimnagar	10110453	--	979142	9131311	--	4062071	6048382	--	--
Khammam	1649908	--	--	1649908	--	1487	1648421	--	--
Warangal	1412697	--	--	1412697	--	172547	1240150	--	--

## STATEMENT NO. 1.8(cont.)

PRODUCTION OF COAL FROM BELOWGROUND WORKINGS BY MECHANISATION AND METHOD OF WORK DURING THE YEAR, 2015  
( IN TONNES )

STATE/DISTRICT	TOTAL BELOW- GROUND OUTPUT	M E C H A N I S A T I O N				M E T H O D O F W O R K			
		FULLY MECHA- NISED	SEMI MECHA- NISED	M A N U A L		B O A R D & P I L L A R			L O N G W A L L
				SOLID BLAST- I N G	O T H E R S	D E V E L O - P M E N T	D E P I L L - A R I N G, C A V I N G / S T O W I N G	S P L I T T - I N G A S F I N A L O P E R A T I O N	
1	2	3	4	5	6	7	8	9	10
TOTAL : Telangana	17090392	210219	1793227	15086946	--	5153283	11937109	--	--
UTTAR PRADESH									
Sonebhadra	--	--	--	--	--	--	--	--	--
WEST BENGAL									
Bankura	97239	--	97239	--	--	--	97239	--	--
Birbhum	--	--	--	--	--	--	--	--	--
Burdwan	9911382	1131817	305615	8376811	97139	4924124	4987258	--	--
Purulia	150141	--	--	150141	--	50218	99923	--	--
TOTAL : WEST BENGAL	10158762	1131817	402854	8526952	97139	4974342	5184420	--	--
GUJARAT									
Bharuch	--	--	--	--	--	--	--	--	--
Bhavanagar	--	--	--	--	--	--	--	--	--
Kutch	--	--	--	--	--	--	--	--	--
Surat	--	--	--	--	--	--	--	--	--
TOTAL : GUJARAT	--	--	--	--	--	--	--	--	--
RAJASTHAN									
Barmer	--	--	--	--	--	--	--	--	--
Bikaner	--	--	--	--	--	--	--	--	--
Nagaur	--	--	--	--	--	--	--	--	--
TOTAL : RAJASTHAN	--	--	--	--	--	--	--	--	--
TAMILNADU									
Cuddalore	--	--	--	--	--	--	--	--	--
ALL INDIA : COAL :	64910231	1823030	2599293	60390769	97139	23156277	41753954	0	0

## STATEMENT NO. 1.9

PRODUCTION OF COAL FROM BELOWGROUND WORKINGS BY MECHANISATION AND METHOD OF WORK DURING THE YEAR, 2015.  
(IN TONNES)

OWNER	TOTAL BELOW- GROUND OUTPUT	M E C H A N I S A T I O N				M E T H O D O F W O R K			
		FULLY MECHA- NISED	SEMI MECHA- NISED	M A N U A L		B O A R D & P I L L A R			L O N G W A L L
				SOLID BLAST- I N G	O T H E R S	D E V E L O - P M E N T	D E P I L L - A R I N G , C A V I N G / S T O W I N G	S P L I T T - I N G A S F I N A L O P E R A T I O N	
1	2	3	4	5	6	7	8	9	10
BCCCL	4073592	123521	--	3950071	--	1262619	2810973	--	--
CCL	913417	--	--	913417	--	436965	476452	--	--
ECL	10674698	1191697	471848	8914014	97139	5361013	5313685	--	--
MCL	1420145	--	31872	1388273	--	585760	834385	--	--
NCL	--	--	--	--	--	--	--	--	--
NEC	3235	--	--	3235	--	3235	--	--	--
SECL	17950536	156868	--	17793668	--	7646258	10304278	--	--
WCL	7673389	140725	--	7532664	--	1896266	5777123	--	--
CTIL	42709012	1612811	503720	40495342	97139	17192116	25516896	--	--
JSMDC	--	--	--	--	--	--	--	--	--
DVC	--	--	--	--	--	--	--	--	--
GMDC	--	--	--	--	--	--	--	--	--
IISCO	261507	--	--	261507	--	254039	7468	--	--
J&K Min.	10468	--	--	10468	--	10468	--	--	--
NLC	--	--	--	--	--	--	--	--	--
SCCL	17090392	210219	1793227	15086946	--	5153283	11937109	--	--
TISCO	3039413	--	302346	2737067	--	302346	2737067	--	--
RSMDC	--	--	--	--	--	--	--	--	--
PIL	--	--	--	--	--	--	--	--	--
GIPCL	--	--	--	--	--	--	--	--	--
GHCL	--	--	--	--	--	--	--	--	--
JSPL	--	--	--	--	--	--	--	--	--
BECML	--	--	--	--	--	--	--	--	--
BLAI	--	--	--	--	--	--	--	--	--
ICML	--	--	--	--	--	--	--	--	--
MIL	1068361	--	--	1068361	--	--	1068361	--	--
RSMML	--	--	--	--	--	--	--	--	--
PCML	--	--	--	--	--	--	--	--	--
JNL	327630	--	--	327630	--	--	327630	--	--
RASL	--	--	--	--	--	--	--	--	--
SISCL	159423	--	--	159423	--	--	159423	--	--
ELCALTD	--	--	--	--	--	--	--	--	--
VSLPPL	--	--	--	--	--	--	--	--	--
WBMD&TCL	--	--	--	--	--	--	--	--	--
DVC EMTA	--	--	--	--	--	--	--	--	--
TUML	--	--	--	--	--	--	--	--	--
MSMCL	--	--	--	--	--	--	--	--	--
SPL	--	--	--	--	--	--	--	--	--
BLMCL	--	--	--	--	--	--	--	--	--
HIL	212225	--	--	212225	--	212225	--	--	--
UCL	--	--	--	--	--	--	--	--	--
BALCO	--	--	--	--	--	--	--	--	--
PCL	31800	--	--	31800	--	31800	--	--	--
JAL	--	--	--	--	--	--	--	--	--
SOVA	--	--	--	--	--	--	--	--	--
RRVUN Ltd.	--	--	--	--	--	--	--	--	--
KECML	--	--	--	--	--	--	--	--	--
CESC	--	--	--	--	--	--	--	--	--
JCCL	--	--	--	--	--	--	--	--	--
ALL INDIA : COAL	64910231	1823030	2599293	60390769	97139	23156277	41753954	0	0

## STATEMENT NO. 1.10

PRODUCTION OF COAL FROM OPENCAST WORKINGS BY MECHANISATION  
AND OVERBURDEN REMOVED DURING THE YEAR, 2015

( IN TONNES )

STATE/DISTRICT	TOTAL OPENCAST OUTPUT	M E C H A N I S A T I O N			OVERBURDEN REMOVED (IN '000 CUBIC METRES)
		FULLY MECHANISED	SEMI MECHANISED	MANUAL	
1	2	3	4	5	6
1. COAL					
ASSAM					
Tinsukia	646845	646845	--	--	7631
CHHATTISGARH					
Bilaspur	--	--	--	--	--
Raigarh	13505259	13505259	--	--	30177
Surguja	9427318	9427318	--	--	10633
Korea	18273	18273	--	--	--
Korba	100201631	100201631	--	--	81771
Surajpur	823226	823226	--	--	6180
TOTAL : CHHATTISGARH	123975707	123975707	--	--	128761
JHARKHAND					
Deoghar	3399528	3399528	--	--	--
Dhanbad	28945748	28945748	--	--	39539
Giridih	636054	636054	--	--	1646
Godda	15005193	15005193	--	--	--
Hazaribagh	13479422	13479422	--	--	24358
Palamau	1979289	1979289	--	--	--
Ranchi	6009942	6009942	--	--	15982
Sahebganj	--	--	--	--	--
Bokaro	16976656	16976656	--	--	11453
Pakur	381692	381692	--	--	--
Chatra	217150159	217150159	--	--	6159
Latehar	255900	255900	--	--	5635
Ramgarh	1086452	1086452	--	--	4931
TOTAL : JHARKHAND	109870935	109870935	--	--	109703
MADHYA PRADESH					
Narsigpur	--	--	--	--	--
Betul	--	--	--	--	--
Chhindwara	1906253	1906253	--	--	5190
Shahdol	4755064	4755064	--	--	9316
Sidhi	43280000	43280000	--	--	159567
Umaria	738631	738631	--	--	--
Anuppur	1695195	1695195	--	--	--
Singrauli	21126832	21126832	--	--	70620
TOTAL : MADHYA PRADESH	73501975	73501975	--	--	244693
MAHARASHTRA					
Chandrapur	15846168	15846168	--	--	43454
Nagpur	8620876	8620876	--	--	11640
Yavatmal	13962916	13962916	--	--	35391
TOTAL : MAHARASHTRA	38429960	38429960	--	--	90485
ORISSA					
Angul	78958077	78958077	--	--	28549
Sambalpur	259804	259804	--	--	5660
Sundergarh	10126448	10126448	--	--	--
Jharsuguda	40639167	40639167	--	--	7660
TOTAL : ORISSA	129983496	129983496	--	--	41869

## STATEMENT NO. 1.10

PRODUCTION OF COAL FROM OPENCAST WORKINGS BY MECHANISATION  
AND OVERBURDEN REMOVED DURING THE YEAR, 2015

( IN TONNES )

STATE/DISTRICT	TOTAL OPENCAST OUTPUT	M E C H A N I S A T I O N			OVERBURDEN REMOVED (IN '000 CUBIC METRES)
		FULLY MECHANISED	SEMI MECHANISED	MANUAL	
1	2	3	4	5	6
Telangana					
Adilabad	12279579	12279579	--	--	52108
Karimnagar	9632753	9632753	--	--	--
Khammam	25759903	25759903	--	--	3041
Warangal	1466637	1466637	--	--	--
TOTAL : Telangana	49138872	49138872	--	--	55149
UTTAR PRADESH					
Sonebhadra	33624300	33624300	--	--	35062
WEST BENGAL					
Bankura	2115408	2115408	--	--	--
Birbhum	398006	398006	--	--	--
Burdwan	15967960	15967960	--	--	89844
Purulia	--	--	--	--	--
TOTAL : WEST BENGAL	18481374	18481374	--	--	89844
ALL INDIA : COAL	577653464	577653464	--	--	803197
2. LIGNITE					
GUJARAT					
Bharuch	3151000	3151000	--	--	--
Bhavanagar	1108105	1108105	--	--	7570
Kutch	5341073	5341073	--	--	16157
Surat	1646070	1646070	--	--	--
TOTAL : GUJARAT	11246248	11246248	--	--	23727
RAJASTHAN					
Barmer	6527676	6527676	--	--	7558
Bikaner	2291643	2291643	--	--	--
Nagaur	178690	178690	--	--	3106
TOTAL : RAJASTHAN	8998009	8998009	--	--	10664
TAMILNADU					
Cuddalore	9929194	9929194	--	--	86560
ALL INDIA : LIGNITE	30173451	30173451	--	--	120951
ALL INDIA : ALL COAL	607826915	607826915	0	0	924148

STATEMENT NO. 1.11  
 PRODUCTION OF COAL FROM OPENCAST WORKINGS BY MECHANISATION  
 AND OVERBURDEN REMOVED DURING THE YEAR, 2015

(IN TONNES )

OWNER	TOTAL OPENCAST OUTPUT	M E C H A N I S A T I O N			OVERBURDEN REMOVED (IN '000 CUBIC METRES)
		FULLY MECHANISED	SEMI MECHANISED	MANUAL	
1	2	3	4	5	6
BCCL	28542167	28542167	--	--	31996
CCL	58178887	58178887	--	--	63634
ECL	30387462	30387462	--	--	80373
MCL	129723692	129723692	--	--	36209
NCL	80581300	80581300	--	--	211581
NEC	646845	646845	--	--	7631
SECL	120912542	120912542	--	--	120190
WCL	36964258	36964258	--	--	95675
CIL	485807363	485807363	--	--	647289
JSMDC	255900	255900	--	--	5635
DVC	371309	371309	--	--	419
GMDC	7804941	7804941	--	--	23727
IISCO	386323	386323	--	--	10065
NLC	11457658	11457658	--	--	86560
SCCL	49138872	49138872	--	--	55149
TISCO	2574101	2574101	--	--	--
RSMDC	262178	262178	--	--	--
PIL	1084390	1084390	--	--	--
GIPCL	3312474	3312474	--	--	--
GHCL	128833	128833	--	--	--
JSPL	1540035	1540035	--	--	17887
BENGALMTA	2339634	2339634	--	--	--
BLAI	--	--	--	--	--
ICML	735003	735003	--	--	1996
RSMML	820456	820456	--	--	10664
PCML	381692	381692	--	--	--
JNL	312400	312400	--	--	--
RASL	1089547	1089547	--	--	--
SISCL	1322740	1322740	--	--	--
ELCALTD	--	--	--	--	--
VSLPPL	763179	763179	--	--	--
WBMD&TCL	497137	497137	--	--	--
UML	728292	728292	--	--	--
DVC EMTA	1307330	1307330	--	--	--
SEML	18896	18896	--	--	--
TUML	262631	262631	--	--	--
MSMCL	2750794	2750794	--	--	--
SPL	14699038	14699038	--	--	53668
BLMCL	5623732	5623732	--	--	--
HIL	268329	268329	--	--	5660
UCL	--	--	--	--	--
BALCO	17595	17595	--	--	--
PCL	--	--	--	--	--
JAL	--	--	--	--	--
SOVA	42500	42500	--	--	--
RRVUN Ltd.	4876823	4876823	--	--	--
KECML	3090428	3090428	--	--	--
CESC	1754362	1754362	--	--	5429
JCCL	--	--	--	--	--
ALL INDIA : All COAL	607826915	607826915	0	0	924148

STATEMENT NO. 1.12  
AVERAGE DAILY EMPLOYMENT AND OUTPUT BY TYPE OF MINE WORKINGS DURING THE YEAR, 2015.

STATE/DISTRICT	TYPE OF MINE	NUMBER OF MINES	E M P L O Y M E N T				O U T P U T ( I N T O N N E S )		
			BELOWGROUND	OPENCAST	ABOVEGROUND	TOTAL	BELOWGROUND	OPENCAST	TOTAL
1	2	3	4	5	6	7	8	9	10
<b>ASSAM</b>									
Tinsukia	B	1	274	--	182	456	3235	--	3235
	O	3	--	612	529	1141	--	646845	646845
<b>CHHATTISGARH</b>									
Bilaspur	B	2	423	--	93	516	185260	--	185260
	B	3	2782	--	610	3392	1421136	--	1421136
Raigarh	O	5	--	996	262	1258	--	10754894	10754894
	BO	4	954	410	620	1984	327630	2750365	3077995
Surguja	B	8	3255	--	448	3703	1192313	--	1192313
	O	7	--	1718	673	2391	--	9355514	9355514
Korea	BO	1	652	198	180	1030	338815	71804	410619
	B	15	7235	--	1550	8785	5082702	--	5082702
Korba	O	3	--	42	180	222	--	18273	18273
	B	11	3301	--	578	3879	2055241	--	2055241
Surajpur	O	8	--	4546	3092	7638	--	100201631	100201631
	B	1	591	--	50	641	202515	--	202515
	O	1	--	109	8	117	--	823226	823226
	<b>TOTAL : CHHATTISGARH</b>								
	B	40	17587	--	3329	20916	10139167	--	10139167
	O	24	--	7411	4215	11626	--	121153538	121153538
	BO	5	1606	608	800	3014	666445	2822169	3488614
<b>GUJARAT</b>									
Bharuch	O	2	--	534	162	696	--	3151000	3151000
Bhavanagar	O	2	--	182	214	396	--	1108105	1108105
Kutch	O	3	--	1013	532	1545	--	5341073	5341073
Surat	O	3	--	285	47	332	--	1646070	1646070
<b>TOTAL : GUJARAT</b>									
	O	10	--	2014	955	2969	--	11246248	11246248
<b>JHARKHAND</b>									
Deoghar	O	3	--	1006	1026	2032	--	3399528	3399528
Dhanbad	B	47	17910	--	5165	23075	4200714	--	4200714
	O	16	--	4868	2096	6964	--	14960474	14960474
	BO	25	9754	6891	3883	20528	1818408	13985274	15803682
Giridih	O	3	--	245	343	588	--	636054	636054
Godda	O	1	--	849	1068	1917	--	15005193	15005193
Hazaribagh	B	12	3554	--	885	4439	2319020	--	2319020
	O	19	--	3364	3715	7079	--	11294072	11294072

STATEMENT NO. 1.12 (cont...)  
AVERAGE DAILY EMPLOYMENT AND OUTPUT BY TYPE OF MINE WORKINGS DURING THE YEAR, 2015.

STATE/DISTRICT	TYPE OF MINE	NUMBER OF MINES	E M P L O Y M E N T				O U T P U T ( I N T O N N E S )		
			BELOWGROUND	OPENCAST	ABOVEGROUND	TOTAL	BELOWGROUND	OPENCAST	TOTAL
1	2	3	4	5	6	7	8	9	10
	BO	3	864	668	416	1948	53961	2185350	2239311
Palamau	O	4	--	443	710	1153	--	1979289	1979289
Ranchi	B	1	223	--	129	352	27535	--	27535
	O	5	--	1257	1665	2922	--	6009942	6009942
Sahebganj	O	1	--	22	10	32	--	--	--
Bokaro	B	6	2000	--	571	2571	288511	--	288511
	O	13	--	4491	2936	7427	--	16946371	16946371
	BO	2	207	79	122	408	9857	30285	40142
Pakur	O	1	--	460	1429	1889	--	381692	381692
Chatra	B	1	331	--	145	476	39111	--	39111
	O	2	--	1817	645	2462	--	21715059	21715059
Latehar	O	1	--	58	39	97	--	255900	255900
Ramgarh	B	1	403	--	140	543	46748	--	46748
	O	2	--	681	124	805	--	1086452	1086452
TOTAL : JHARKHAND	B	68	24421	--	7035	31456	6921639	--	6921639
	O	71	--	19561	15806	35367	--	93670026	93670026
	BO	30	10825	7638	4421	22884	1882226	16200909	18083135
JAMMU & KASHMIR									
Rajauri	B	1	241	--	63	304	10468	--	10468
MADHYA PRADESH									
Narsigpur	O	1	--	--	20	20	--	--	--
Betul	B	7	3866	--	459	4325	3204883	--	3204883
Chhindwara	B	17	4240	--	702	4942	1451806	--	1451806
	O	6	--	293	143	436	--	1906253	1906253
	BO	1	302	12	117	431	208460	--	208460
Shahdol	B	22	9319	--	2468	11787	6584591	--	6584591
	O	6	--	637	1405	2042	--	4755064	4755064
Sidhi	O	4	--	6146	3776	9922	--	43280000	43280000
Umaria	B	7	4483	--	1293	5776	1556508	--	1556508
	O	1	--	84	8	92	--	738631	738631
Anuppur	B	2	1305	--	236	1541	612041	--	612041
	O	1	--	474	--	474	--	1695195	1695195
Singrauli	O	3	--	1745	676	2421	--	21126832	21126832
TOTAL : MADHYA PRADESH	B	55	23213	--	5158	28371	13409829	--	13409829
	O	22	--	9379	6028	15407	--	73501975	73501975
	BO	1	302	12	117	431	208460	--	208460



STATEMENT NO. 1.12 (cont...)  
AVERAGE DAILY EMPLOYMENT AND OUTPUT BY TYPE OF MINE WORKINGS DURING THE YEAR, 2015.

STATE/DISTRICT	TYPE OF MINE	NUMBER OF MINES	E M P L O Y M E N T				O U T P U T ( I N T O N N E S )		
			BELOWGROUND	OPENCAST	ABOVEGROUND	TOTAL	BELOWGROUND	OPENCAST	TOTAL
1	2	3	4	5	6	7	8	9	10
<b>MAHARASHTRA</b>									
Chandrapur	B	12	3988	--	1588	5576	1169691	--	1169691
	O	18	--	2665	4260	6925	--	15846168	15846168
Nagpur	B	8	3814	--	763	4577	1613692	--	1613692
	O	7	--	1368	1424	2792	--	8620876	8620876
Yavatmal	B	2	1053	--	256	1309	216080	--	216080
	O	12	--	2284	1566	3850	--	13962916	13962916
<b>TOTAL : MAHARASHTRA</b>	B	22	8855	--	2607	11462	2999463	--	2999463
	O	37	--	6317	7250	13567	--	38429960	38429960
<b>ORISSA</b>									
Angul	B	4	1880	--	696	2576	295542	--	295542
	O	9	--	6454	4514	10968	--	78958077	78958077
Sambalpur	O	1	--	20	41	61	--	259804	259804
Sundergarh	O	2	--	910	219	1129	--	10126448	10126448
Jharsuguda	B	5	2109	--	498	2607	1124603	--	1124603
	O	5	--	2775	1079	3854	--	40639167	40639167
<b>TOTAL : ORISSA</b>	B	9	3989	--	1194	5183	1420145	--	1420145
	O	17	--	10159	5853	16012	--	129983496	129983496
<b>RAJASTHAN</b>									
Barmer	O	4	--	685	357	1042	--	6527676	6527676
Bikaner	O	2	--	274	7	281	--	2291643	2291643
Nagaur	O	1	--	58	17	75	--	178690	178690
<b>TOTAL : RAJASTHAN</b>	O	7	--	1017	381	1398	--	8998009	8998009
<b>Telangana</b>									
Adilabad	B	15	13320	--	992	14312	3917334	--	3917334
	O	7	--	3087	165	3252	--	12279579	12279579
Karimnagar	B	15	15988	--	1352	17340	10110453	--	10110453
	O	3	--	1896	1340	3236	--	9632753	9632753
Khammam	B	6	3173	--	337	3510	1649908	--	1649908
	O	6	--	3544	1559	5103	--	25759903	25759903
Warangal	B	5	4354	--	408	4762	1412697	--	1412697
	O	1	--	230	9	239	--	1466637	1466637

STATEMENT NO. 1.12 (cont...)  
AVERAGE DAILY EMPLOYMENT AND OUTPUT BY TYPE OF MINE WORKINGS DURING THE YEAR, 2015.

STATE/DISTRICT	TYPE OF MINE	NUMBER OF MINES	E M P L O Y M E N T				O U T P U T ( I N T O N N E S )		
			BELOWGROUND	OPENCAST	ABOVEGROUND	TOTAL	BELOWGROUND	OPENCAST	TOTAL
1	2	3	4	5	6	7	8	9	10
TOTAL : Telangana	B	41	36835	--	3089	39924	17090392	--	17090392
	O	17	--	8757	3073	11830	--	49138872	49138872
TAMILNADU									
Cuddalore	O	2	--	6740	366	7106	--	9929194	9929194
UTTAR PRADESH									
Sonebhadra	O	5	--	3794	5259	9053	--	33624300	33624300
WEST BENGAL									
Bankura	B	1	487	--	127	614	97239	--	97239
	O	4	--	563	419	982	--	2115408	2115408
Birbhum	O	2	--	165	12	177	--	398006	398006
Burdwan	B	69	26303	--	8881	35184	7134656	--	7134656
	O	16	--	3526	2744	6270	--	14261589	14261589
	BO	8	3112	1229	1408	5749	2776726	1706371	4483097
Purulia	B	2	990	--	381	1371	150141	--	150141
TOTAL : WEST BENGAL	B	72	27780	--	9389	37169	7382036	--	7382036
	O	22	--	4254	3175	7429	--	16775003	16775003
	BO	8	3112	1229	1408	5749	2776726	1706371	4483097
ALL INDIA : ALL COAL									
	B	309	143195	--	32046	175241	59376374	--	59376374
	O	237	--	80015	52890	132905	--	587097466	587097466
	BO	44	15845	9487	6746	32078	5533857	20729449	26263306
ALL INDIA :	ALL	590	159040	89502	91682	340224	64910231	607826915	672737146

B : Mines having belowground workings only  
O : Mines having opencast workings only  
BO : Mines having both belowground & opencast workings

STATEMENT NO. 1.13  
PRODUCTIVITY IN COAL MINES DURING THE YEAR, 2015.

( IN TONNES )

STATE/DISTRICT	OUTPUT PER MAN YEAR			OUTPUT PER MANSHIFTS		
	BELOWGROUND	OPENCAST	OVERALL	BELOWGROUND	OPENCAST	OVERALL
1	2	3	4	5	6	7
<b>1. COAL</b>						
<b>ASSAM</b>						
Tinsukia	12	1057	407	0.04	3.38	1.31
<b>CHHATTISGARH</b>						
Bilaspur	438	--	359	1.21	--	0.99
Raigarh	468	9605	2299	1.36	40.95	7.37
Surguja	392	4920	1538	1.18	14.75	4.57
Korea	703	435	566	1.94	1.23	1.58
Korba	623	22042	8879	1.75	66.42	27.55
Surajpur	343	7553	1353	0.94	20.65	3.70
<b>TOTAL : CHHATTISGARH</b>	<b>563</b>	<b>15460</b>	<b>3791</b>	<b>1.60</b>	<b>48.96</b>	<b>11.35</b>
<b>JHARKHAND</b>						
Deoghar	--	3379	1673	--	9.32	4.86
Dhanbad	218	2462	691	0.72	7.76	2.24
Giridih	--	2596	1082	--	7.81	3.24
Godda	--	17674	7827	--	49.09	21.74
Hazaribagh	537	3343	1177	1.77	10.44	3.73
Palamau	--	4468	1717	--	15.00	6.20
Ranchi	123	4781	1844	0.40	12.44	5.11
Sahebganj	--	0	0	--	0.00	0.00
Bokaro	135	3715	1660	0.49	11.68	5.43
Pakur	--	830	202	--	2.72	0.66
Chatra	118	11951	7404	0.39	32.73	20.85
Latehar	--	4412	2638	--	14.61	8.83
Ramgarh	116	1595	841	0.38	4.77	2.59
<b>TOTAL : JHARKHAND</b>	<b>250</b>	<b>4040</b>	<b>1323</b>	<b>0.83</b>	<b>12.35</b>	<b>4.21</b>
<b>JAMMU &amp; KASHMIR</b>						
Rajauri	43	--	34	0.14	--	0.11
<b>MADHYA PRADESH</b>						
Narsigpur	--	--	0	--	--	0.00
Betul	829	--	741	2.38	--	2.13
Chhindwara	366	6250	614	1.20	15.89	1.97
Shahdol	707	7465	820	1.75	21.69	2.15
Sidhi	--	7042	4362	--	24.51	14.96
Umaria	347	8793	391	0.92	26.95	1.06
Anuppur	469	3576	1145	1.29	9.79	3.16
Singrauli	--	12107	8726	--	47.13	32.30
<b>TOTAL : MADHYA PRADESH</b>	<b>579</b>	<b>7827</b>	<b>1971</b>	<b>1.58</b>	<b>26.69</b>	<b>5.79</b>
<b>MAHARASHTRA</b>						
Chandrapur	293	5946	1361	0.88	18.03	4.11
Nagpur	423	6302	1389	1.31	20.74	4.34
Yavatmal	205	6113	2748	0.89	17.95	8.90
<b>TOTAL : MAHARASHTRA</b>	<b>339</b>	<b>6084</b>	<b>1655</b>	<b>1.07</b>	<b>18.54</b>	<b>5.12</b>
<b>ORISSA</b>						
Angul	157	12234	5852	0.51	37.13	18.17
Sambalpur	--	12990	4259	--	77.16	26.74
Sundergarh	--	11128	8969	--	30.55	25.22
Jharsuguda	533	14645	6464	1.76	47.02	20.67
<b>TOTAL : ORISSA</b>	<b>356</b>	<b>12795</b>	<b>6200</b>	<b>1.16</b>	<b>39.08</b>	<b>19.34</b>
<b>Telangana</b>						
Adilabad	294	3978	922	0.97	17.42	3.12
Karimnagar	632	5081	960	2.13	15.11	3.15
Khammam	520	7269	3182	1.71	22.25	10.13
Warangal	324	6377	576	1.06	20.99	1.89
<b>TOTAL : Telangana</b>	<b>464</b>	<b>5611</b>	<b>1280</b>	<b>1.54</b>	<b>19.12</b>	<b>4.22</b>

STATEMENT NO. 1.13(cont.)  
PRODUCTIVITY IN COAL MINES DURING THE YEAR, 2015.

( IN TONNES )						
STATE/DISTRICT	OUTPUT PER MAN YEAR			OUTPUT PER MANSHIFTS		
	BELOWGROUND	OPENCAST	OVERALL	BELOWGROUND	OPENCAST	OVERALL
1	2	3	4	5	6	7
-----						
UTTAR PRADESH						
Sonebhadra	--	8862	3714	--	27.56	13.21
WEST BENGAL						
Bankura	200	3757	1386	0.74	11.72	4.37
Birbhum	--	2412	2249	--	7.95	7.48
Burdwan	337	3358	548	1.02	12.46	1.73
Purulia	152	--	110	0.50	--	0.36
-----						
TOTAL : WEST BENGAL	329	3371	569	1.00	12.22	1.80
-----						
ALL INDIA : COAL	408	7245	1955	1.26	23.04	6.14
-----						
2. LIGNITE						
GUJARAT						
Bharuch	--	5901	4527	--	18.19	14.00
Bhavanagar	--	6088	2798	--	17.43	8.13
Kutch	--	5273	3457	--	19.23	11.86
Surat	--	5776	4958	--	16.17	13.89
-----						
TOTAL : GUJARAT	--	5584	3788	--	18.25	12.09
-----						
RAJASTHAN						
Barmer	--	9529	6265	--	28.38	18.43
Bikaner	--	8364	8155	--	23.07	22.58
Nagaur	--	3081	2383	--	9.81	7.60
-----						
TOTAL : RAJASTHAN	--	8848	6436	--	25.89	18.78
-----						
TAMILNADU						
Cuddalore	--	1473	1397	--	4.92	4.75
-----						
ALL INDIA : LIGNITE	--	3088	2630	--	10.12	8.62
-----						
ALL INDIA : COAL & LIGNITE	408	6791	1977	1.26	21.67	6.22
-----						

## STATEMENT NO. 1.14

## PRODUCTIVITY IN COAL MINES DURING THE YEAR, 2015 : OWNERWISE

( IN TONNES )

OWNER	OUTPUT PER MAN YEAR			OUTPUT PER MANSHIFTS		
	BELOWGROUND	OPENCAST	OVERALL	BELOWGROUND	OPENCAST	OVERALL
1	2	3	4	5	6	7
BCCL	202	2529	784	0.67	8.01	2.54
CCL	139	4708	1941	0.47	14.11	6.02
ECL	316	5877	761	0.97	17.57	2.34
MCL	356	12795	6205	1.16	39.05	19.33
NCL	--	7520	3964	--	25.68	13.98
NEC	12	1057	407	0.04	3.38	1.31
SECL	584	15820	2760	1.57	46.66	7.75
WCL	460	6016	1317	1.43	18.10	4.05
CIL	381	7589	2088	1.15	23.48	6.44
JSMDC	--	4412	2638	--	14.61	8.83
DVC	--	8251	3286	--	26.45	10.92
GMDC	--	4607	3165	--	15.60	10.42
IISCO	246	840	330	0.80	2.76	1.07
J&K Min.	43	--	34	0.14	--	0.11
NLC	--	1657	1573	--	5.50	5.31
SCCL	464	5611	1280	1.54	19.12	4.22
TISCO	665	7527	1026	2.19	24.81	3.37
RSMDL	--	6395	4767	--	21.30	16.00
PIL	--	5020	4155	--	17.46	14.29
GIPCL	--	10583	8717	--	29.20	24.01
GHCL	--	18405	1047	--	50.25	2.99
JSPL	--	4400	2826	--	316.68	42.66
BECL	--	5299	4390	--	15.78	13.01
BENGALMTA	--	2898	2812	--	8.05	7.81
BLAI	--	--	0	--	--	0.00
ICML	--	1068	609	--	14.44	8.24
MIL	681	--	570	1.87	--	1.56
CTL	--	0	0	--	0.00	0.00
RSMLL	--	3870	3180	--	13.78	11.43
PCML	--	830	202	--	2.72	0.66
JNL	442	2519	568	1.45	8.26	1.86
RASL	--	9905	7838	--	32.19	27.18
SISCL	415	7602	2301	1.34	21.79	6.56

## STATEMENT NO. 1.14(cont.)

## PRODUCTIVITY IN COAL MINES DURING THE YEAR, 2015 : OWNERWISE

OWNER	( IN TONNES )					
	OUTPUT PER MAN YEAR			OUTPUT PER MANSHIFTS		
	BELOWGROUND	OPENCAST	OVERALL	BELOWGROUND	OPENCAST	OVERALL
1	2	3	4	5	6	7
ELCALTD	--	--	--	--	--	--
VSLPPL	--	7556	7556	--	21.02	21.02
WBMD&TCL	--	6293	1237	--	20.63	4.05
UML	--	4284	1858	--	14.03	6.31
DVC EMTA	--	4231	3950	--	13.86	11.11
BSIL	--	420	320	--	1.15	0.88
TUML	--	4528	3806	--	12.41	10.43
MSMCL	0	10003	4532	0.00	31.24	14.17
SPL	--	21180	19837	--	70.58	66.09
BLMCL	--	11477	6995	--	31.89	19.43
HIL	190	72	104	0.56	0.30	0.34
GMR	--	12990	4259	--	77.16	26.74
UCL	--	--	0	--	--	0.00
BALCO	--	105	66	--	0.45	0.28
PCL	475	--	300	1.56	--	0.98
JAL	0	--	0	0.00	--	0.00
NTPC	--	--	--	--	--	--
SOVA	--	462	283	--	1.28	0.79
RRVUN Ltd.	--	13584	10510	--	45.63	35.12
KECML	--	8241	7483	--	27.47	24.94
CESC	--	2528	1447	--	10.89	6.24
JCCL	0	--	0	0.00	--	0.00
ALL INDIA	408	6791	1977	1.26	21.67	6.22

STATEMENT NO.1.15  
TREND IN PRODUCTIVITY IN COAL MINES

(IN TONNES)

YEAR	OUTPUT PER MANSHIFT				OUTPUT PER MAN YEAR			
	BELOW GOUND	OPEN- CAST	BELOWGR- OUND & OPENCAST	ALL IN THE MINE	BELOW- GOUND	OPEN- CAST	BELOWGR- OUND & OPENCAST	ALL IN THE MINE
1	2	3	4	5	6	7	8	9
1981	0.82	3.02	1.09	0.81	252	927	336	248
1986	0.77	4.89	1.47	1.01	240	1518	454	313
1991	0.73	8.05	2.03	1.40	224	2497	621	429
1992	0.75	8.30	2.15	1.47	228	2672	660	453
1993	0.77	8.75	2.23	1.53	239	2736	692	477
1994	0.77	9.22	2.37	1.63	241	2925	743	511
1995	0.78	10.07	2.61	1.80	239	3182	801	554
1996	0.80	10.69	2.77	1.91	249	3422	869	601
1997	0.80	11.27	2.92	2.01	248	3602	911	629
1998	0.83	11.39	3.04	2.09	254	3665	944	651
1999	0.85	10.77	3.06	2.12	264	3454	958	663
2000	0.87	12.10	3.39	2.34	266	3894	1052	729
2001	0.87	12.60	3.58	2.51	268	4019	1107	779
2002	0.94	13.56	3.97	2.75	291	4339	1238	860
2003	0.95	14.24	4.27	2.91	295	4565	1332	910
2004	0.94	15.10	4.61	3.19	294	4943	1455	1010
2005	1.00	15.92	4.87	3.35	312	5125	1532	1055
2006	1.00	14.80	4.99	3.50	313	4865	1584	1116
2007	1.05	15.77	5.59	3.95	331	5213	1792	1268
2008	1.12	17.14	5.89	4.25	355	5700	1918	1371
2009	1.15	18.65	6.60	4.66	359	6150	2101	1494
2010	1.21	19.58	7.09	5.05	384	6434	2273	1626
2011	1.23	19.03	7.18	5.15	388	6273	2302	1659
2012	1.18	19.02	7.39	5.35	374	6283	2374	1724
2013	1.21	18.67	7.24	5.15	386	6034	2314	1647
2014	1.23	19.86	7.94	5.72	391	6230	2515	1828
2015	1.26	21.67	8.46	6.22	408	6791	2757	1977

**SECTION – II**

**GASSINESS**



**STATEMENT NO. 2.1**  
**TREND IN EMPLOYMENT AND OUTPUT FROM GASSY COAL MINES HAVING DEGREE II OR III SEAMS**

Year	Gassy Coal Mines			Percentage of		
	No. of mines having Degree II or III or both II & III gassy seams	Employment in Gassy seams ( in '000 )	Output from Gassy seams (in million tonnes)	No. of mines having Gassy seams to total No. of Mines having UG workings	Employment in Gassy seams to total UG Employment	Output from Gassy seams to total UG output
1	2	3	4	5	6	7
1986	156	123.5	26.25	35.94	39.52	34.99
1991	160	120.5	25.81	36.87	38.14	36.50
1992	155	114.6	25.29	35.55	36.79	35.58
1993	142	107.8	24.05	32.95	34.99	32.65
1994	140	102.8	22.23	32.48	35.12	31.47
1995	150	100.3	21.92	34.40	38.40	31.99
1996	145	95.1	21.21	33.41	33.78	30.24
1997	145	95.9	20.53	33.33	34.39	29.72
1998	149	94.5	20.57	33.94	34.98	30.00
1999	145	92.9	20.88	32.87	36.06	30.65
2000	139	85.5	20.05	31.81	34.36	30.27
2001	133	80.3	18.16	32.20	33.53	28.32
2002	140	76.4	18.67	34.65	34.02	28.58
2003	132	73.2	18.00	33.50	32.44	28.29
2004	126	69.8	17.46	31.66	33.09	28.21
2005	135	72.3	20.06	33.75	35.24	31.30
2006	130	64.6	17.65	33.25	32.96	28.84
2007	124	59.9	14.79	32.20	31.81	23.74
2008	126	58.9	16.51	33.60	31.50	24.60
2009	123	51.9	13.07	32.97	27.93	19.55
2010	126	54.8	14.68	34.33	30.11	20.97
2011	112	51.0	13.62	30.27	28.63	19.74
2012	116	47.9	13.00	32.86	27.84	20.16
2013	116	46.5	12.60	31.52	27.68	19.41
2014	95	39.2	11.66	27.78	23.83	18.12
2015	77	32.4	10.01	22.78	20.38	15.41

STATEMENT NO. 2.2  
CLASSIFICATION OF BELOWGROUND MINES BY DEGREE OF GASSY SEAMS DURING THE YEAR, 2015.

STATE/DISTRICT	NUMBER OF MINES HAVING GASSY SEAMS OF DEGREE							TOTAL
	I ONLY	II ONLY	III ONLY	I & II	I & III	II & III	I, II & III	
1	2	3	4	5	6	7	8	9
<b>ASSAM</b>								
Tinsukia	--	--	1	--	--	--	--	1
<b>CHHATTISGARH</b>								
Bilaspur	2	--	--	--	--	--	--	2
Raigarh	7	--	--	--	--	--	--	7
Surguja	9	--	--	--	--	--	--	9
Korea	15	--	--	--	--	--	--	15
Korba	11	--	--	--	--	--	--	11
Surajpur	1	--	--	--	--	--	--	1
<b>TOTAL : CHHATTISGARH</b>	<b>45</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>45</b>
<b>JHARKHAND</b>								
Dhanbad	56	7	3	--	--	--	--	66
Hazaribagh	7	6	--	--	--	--	--	13
Ranchi	1	--	--	--	--	--	--	1
Bokaro	1	5	--	1	--	--	--	7
Chatra	1	--	--	--	--	--	--	1
Ramgarh	--	1	--	--	--	--	--	1
<b>TOTAL : JHARKHAND</b>	<b>66</b>	<b>19</b>	<b>3</b>	<b>1</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>89</b>
<b>JAMMU &amp; KASHMIR</b>								
Rajauri	--	1	--	--	--	--	--	1
<b>MADHYA PRADESH</b>								
Betul	2	5	--	--	--	--	--	7
Chhindwara	12	4	--	--	--	--	--	16
Shahdol	20	--	--	--	--	--	--	20
Umaria	7	--	--	--	--	--	--	7
Anuppur	2	--	--	--	--	--	--	2
<b>TOTAL : MADHYA PRADESH</b>	<b>43</b>	<b>9</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>52</b>
<b>MAHARASHTRA</b>								
Chandrapur	12	--	--	--	--	--	--	12
Nagpur	8	--	--	--	--	--	--	8
Yavatmal	2	--	--	--	--	--	--	2
<b>TOTAL : MAHARASHTRA</b>	<b>22</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>22</b>
<b>ORISSA</b>								

STATEMENT NO. 2.2  
CLASSIFICATION OF BELOWGROUND MINES BY DEGREE OF GASSY SEAMS DURING THE YEAR, 2015.

STATE/DISTRICT	NUMBER OF MINES HAVING GASSY SEAMS OF DEGREE							TOTAL
	I ONLY	II ONLY	III ONLY	I & II	I & III	II & III	I, II & III	
1	2	3	4	5	6	7	8	9
Angul	4	--	--	--	--	--	--	4
Jharsuguda	3	2	--	--	--	--	--	5
TOTAL : ORISSA	7	2	--	--	--	--	--	9
Telangana								
Adilabad	15	--	--	--	--	--	--	15
Karimnagar	14	--	--	--	--	--	--	14
Khammam	6	--	--	--	--	--	--	6
Warangal	5	--	--	--	--	--	--	5
TOTAL : Telangana	40	--	--	--	--	--	--	40
WEST BENGAL								
Bankura	--	--	1	--	--	--	--	1
Burdwan	35	39	2	--	--	--	--	76
Purulia	2	--	--	--	--	--	--	2
TOTAL : WEST BENGAL	37	39	3	--	--	--	--	79
ALL INDIA : HARD COAL	260	70	7	1	--	--	--	338

STATEMENT NO. 2.3  
BELOWGROUND EMPLOYMENT AND OUTPUT IN COAL MINES BY DEGREE OF GASSY SEAMS DURING THE YEAR, 2015.

STATE/DISTRICT	DEGREE - I		DEGREE - II		DEGREE - III	
	EMPLOYMENT	OUTPUT ( IN TONNES )	EMPLOYMENT	OUTPUT ( IN TONNES )	EMPLOYMENT	OUTPUT ( IN TONNES )
1	2	3	4	5	6	7
ASSAM						
Tinsukia	--	--	--	--	274	3235
CHHATTISGARH						
Bilaspur	423	185260	--	--	--	--
Raigarh	3736	1748766	--	--	--	--
Surguja	3907	1531128	--	--	--	--
Korea	7235	5082702	--	--	--	--
Korba	3301	2055241	--	--	--	--
Surajpur	591	202515	--	--	--	--
TOTAL : CHHATTISGARH	19193	10805612	--	--	--	--
JHARKHAND						
Dhanbad	23050	5568355	2955	252567	1659	198200
Hazaribagh	2235	2081482	2183	291499	--	--
Ranchi	223	27535	--	--	--	--
Bokaro	626	123607	1581	174761	--	--
Chatra	331	39111	--	--	--	--
Ramgarh	--	--	403	46748	--	--
TOTAL : JHARKHAND	26465	7840090	7122	765575	1659	198200
JAMMU & KASHMIR						
Rajauri	--	--	241	10468	--	--
MADHYA PRADESH						
Betul	977	649840	2889	2555043	--	--
Chhindwara	2594	954244	1948	706022	--	--
Shahdol	9319	6584591	--	--	--	--
Umaria	4483	1556508	--	--	--	--
Anuppur	1305	612041	--	--	--	--
TOTAL : MADHYA PRADESH	18678	10357224	4837	3261065	--	--
MAHARASHTRA						
Chandrapur	3988	1169691	--	--	--	--
Nagpur	3814	1613692	--	--	--	--
Yavatmal	1053	216080	--	--	--	--
TOTAL : MAHARASHTRA	8855	2999463	--	--	--	--

STATEMENT NO. 2.3  
BELOWGROUND EMPLOYMENT AND OUTPUT IN COAL MINES BY DEGREE OF GASSY SEAMS DURING THE YEAR, 2015.

STATE/DISTRICT	DEGREE - I		DEGREE - II		DEGREE - III	
	EMPLOYMENT	OUTPUT ( IN TONNES )	EMPLOYMENT	OUTPUT ( IN TONNES )	EMPLOYMENT	OUTPUT ( IN TONNES )
1	2	3	4	5	6	7
ORISSA						
Angul	1880	295542	--	--	--	--
Jharsuguda	1167	606011	942	518592	--	--
TOTAL : ORISSA	3047	901553	942	518592	--	--
Telangana						
Adilabad	13320	3917334	--	--	--	--
Karimnagar	15988	10110453	--	--	--	--
Khammam	3173	1649908	--	--	--	--
Warangal	4354	1412697	--	--	--	--
TOTAL : Telangana	36835	17090392	--	--	--	--
WEST BENGAL						
Bankura	--	--	--	--	487	97239
Burdwan	12566	4760685	15981	5058941	868	91756
Purulia	990	150141	--	--	--	--
TOTAL : WEST BENGAL	13556	4910826	15981	5058941	1355	188995
ALL INDIA : HARD COAL	126629	54905160	29123	9614641	3288	390430

**SECTION – III**

**EXPLOSIVES**

<b>STATEMENT NO. 3.1</b>			
<b>TREND IN CONSUMPTION OF EXPLOSIVES(IN TONNES)</b>			
<b>YEAR</b>	<b>PERMITTED EXPLOSIVES</b>	<b>NON PERMITTED EXPLOSIVES</b>	<b>GRAND TOTAL</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
1976	21670	6701	28371
1981	25886	20381	46267
1982	26111	26492	52603
1983	25947	28998	54945
1984	26342	37941	64283
1985	26489	41095	67584
1986	27140	49394	76534
1987	28203	65372	93575
1988	26823	67795	94618
1989	26937	86881	113818
1990	26731	87923	114654
1991	26182	98049	124231
1992	26146	114274	140420
1993	28670	126969	155639
1994	27398	129473	156871
1995	26343	163288	189631
1996	26320	181461	207781
1997	31731	201004	232735
1998	26471	220559	247030
1999	27217	240400	267617
2000	26755	263758	290513
2001	26254	266323	292577
2002	25737	289580	315317
2003	26912	282913	309825
2004	26651	307395	334046
2005	25678	271416	297094
2006	25060	320227	345287
2007	28843	323872	352715
2008	29251	366030	395281
2009	41522	419576	461098
2010	40073	453077	493150
2011	37217	466301	503518
2012	34674	439853	474527
2013	40062	483574	523636
2014	32804	557984	590788
2015	24581	566518	591099

STATEMENT NO. 3.2  
EXPLOSIVES USED IN COAL MINES DURING THE YEAR, 2015. (IN KILOGRAM)

STATE/DISTRICT	NO.OF MINES USING	EXPLOSIVES USED (IN KILOGRAMS)			NO.OF DETONATORS USED
		PERMITTED	NON PERMITTED	TOTAL	
1	2	3	4	5	6
<b>1. COAL</b>					
<b>ASSAM</b>					
Tinsukia	4	58	2070052	2070110	110109
<b>CHHATTISGARH</b>					
Bilaspur	2	111074	--	111074	210602
Raigarh	13	801534	10232441	11033975	1961973
Surguja	16	707799	6505922	7213721	1825711
Korea	17	1542539	146861	1689400	3503298
Korba	20	978776	64314993	65293769	2048641
Surajpur	2	94160	3617448	3711608	642
<b>TOTAL : CHHATTISGARH</b>	<b>70</b>	<b>4235882</b>	<b>84817665</b>	<b>89053547</b>	<b>9550867</b>
<b>JHARKHAND</b>					
Deochar	3	--	3438649	3438649	128754
Dhanbad	84	1559092	33998448	35557540	3489512
Giridih	2	--	1026547	1026547	58644
Godda	1	--	9022182	9022182	253340
Hazaribagh	35	3817415	19933421	23750836	1471975
Palamau	4	--	395700	395700	36813
Ranchi	6	13021	4185620	4198641	1064537
Sahebganj	1	--	--	--	--
Bokaro	21	263307	9008185	9271492	928459
Pakur	1	--	2449823	2449823	57051
Chatra	3	20807	3725480	3746287	46380
Latehar	1	--	130025	130025	4944
Ramgarh	3	18451	3322301	3340752	109706
<b>TOTAL : JHARKHAND</b>	<b>165</b>	<b>5692093</b>	<b>90636381</b>	<b>96328474</b>	<b>7650115</b>
<b>JAMMU &amp; KASHMIR</b>					
Rajauri	1	--	--	--	--
<b>MADHYA PRADESH</b>					
Narsigpur	1	--	--	--	--
Betul	7	1483208	--	1483208	3370999
Chhindwara	24	686252	3682851	4369103	982780
Shahdol	27	1531809	2155505	3687314	3665339
Sidhi	4	--	106091727	106091727	4880167
Umaria	8	538194	1203031	1741225	1036576
Anuppur	3	369372	--	369372	446798
Singrauli	3	--	40570720	40570720	2552
<b>TOTAL : MADHYA PRADESH</b>	<b>77</b>	<b>4608835</b>	<b>153703834</b>	<b>158312669</b>	<b>14385211</b>
<b>MAHARASHTRA</b>					
Chandrapur	30	369213	14200929	14570142	858797
Nagpur	15	851339	4824702	5676041	2121160
Yavatmal	14	127075	22802556	22929631	11707023
<b>TOTAL : MAHARASHTRA</b>	<b>59</b>	<b>1347627</b>	<b>41828187</b>	<b>43175814</b>	<b>14686980</b>
<b>ORISSA</b>					
Angul	12	178392	14711988	14890380	741197
Sambalpur	1	--	--	--	--
Sundergarh	2	--	--	--	--
Jharsuguda	10	551333	7788171	8339504	1447951
<b>TOTAL : ORISSA</b>	<b>25</b>	<b>729725</b>	<b>22500159</b>	<b>23229884</b>	<b>2189148</b>



STATEMENT NO. 3.2 (Cont..)  
EXPLOSIVES USED IN COAL MINES DURING THE YEAR, 2015. (IN KILOGRAM)

STATE/DISTRICT	NO.OF MINES USING	EXPLOSIVES USED (IN KILOGRAMS)			NO.OF DETONATORS USED
		PERMITTED	NON PERMITTED	TOTAL	
1	2	3	4	5	6
-----					
Telangana					
Adilabad	22	1875459	17006752	18882211	5696991
Karimnagar	18	1455140	29304626	30759766	2044187
Khammam	12	816194	17683537	18499731	16385260
Warangal	6	456678	3871395	4328073	969540
-----					
TOTAL : Telangana	58	4603471	67866310	72469781	25095978
-----					
UTTAR PRADESH					
Sonebhadra	5	--	58423568	58423568	9930
-----					
WEST BENGAL					
Bankura	5	49850	2819933	2869783	256316
Birbhum	2	--	312260	312260	5489
Burdwan	98	3286267	34897649	38183916	6750578
Purulia	2	27007	--	27007	75201
-----					
TOTAL : WEST BENGAL	107	3363124	38029842	41392966	7087584
-----					
ALL INDIA : COAL	571	24580815	559875998	584456813	80765922
-----					
2. LIGNITE					
GUJARAT					
Bharuch	2	--	--	--	--
Bhavanagar	2	--	--	--	--
Kutch	3	--	--	--	--
Surat	3	--	--	--	--
-----					
TOTAL : GUJARAT	10	--	--	--	--
-----					
RAJASTHAN					
Barmer	4	--	--	--	--
Bikaner	2	--	--	--	--
Nagaur	1	--	--	--	--
-----					
TOTAL : RAJASTHAN	7	--	--	--	--
-----					
TAMILNADU					
Cuddalore	2	--	6642224	6642224	4814
-----					
ALL INDIA : LIGNITE	19	--	6642224	6642224	4814
-----					
ALL INDIA: COAL & LIGNITE	590	24580815	566518222	591099037	80770736
-----					

**SECTION – IV**

**MACHINERY**

**STATEMENT NO.4.1**  
**TREND IN USAGE OF MACHINERIES IN BELOWGROUND WORKINGS**

Year	Coal cutting Machine		Mechanical cutter/ Loader		Mechanical Loader		Drills		Rope-haulage		Locomotives		Shuttle Car		Conveyors		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	No.	H.P
1997	130	8220	51	12501	703	43607	3737	5655	3228	170392	62	4738	-	-	1154	85400	137	3472	9202	333985
1998	100	6330	50	12685	758	48165	3947	6013	3205	170449	49	3712	-	-	1289	96038	82	3005	9480	346407
1999	75	4896	48	12932	792	50203	3844	5828	3072	163442	54	4516	-	-	1298	94802	72	3239	9255	339858
2000	69	4366	46	11929	816	51997	3850	5885	3089	170656	49	3828	-	-	1156	88510	109	4938	9184	342109
2001	34	2210	51	11976	807	51799	3541	5368	2828	160220	43	3260	-	-	1163	79921	139	6919	8606	321673
2002	29	1755	39	10845	880	55067	3243	4891	2691	148830	46	3119	-	-	1218	94828	152	7579	8298	326914
2003	25	1716	33	10303	930	59241	3346	5013	2706	150085	44	2399	2	320	1306	101716	143	9115	8535	339908
2004	15	1056	41	11382	964	62683	3624	5494	2680	154005	36	1367	3	300	1192	95602	108	5361	8663	337250
2005	10	700	35	14418	895	61278	3326	5021	2552	145971	20	1000	2	220	1196	90599	114	8310	8150	327517
2006	12	1355	72	14061	977	61523	3304	5118	2382	132474	37	1455	5	370	1392	110500	96	6459	8277	333315
2007	15	1365	49	11534	999	68914	3559	5450	2698	151038	29	1149	5	472	1286	106957	198	15978	8853	362857
2008	26	1590	27	8992	1091	69761	3563	5440	2605	149039	30	2730	8	1056	1462	130895	198	14573	9010	384036
2009	55	3692	44	9517	987	73290	3155	4953	2356	139978	26	1811	-	-	1287	118848	128	12189	8038	364278
2010	57	7028	35	8713	1028	72373	3269	5523	2247	128797	35	2509	15	1682	1340	119973	301	23608	8423	370206
2011	196	14413	116	7635	1012	70053	3221	6880	2281	136378	67	3631	7	1275	1504	146969	517	39826	8921	427060
2012	174	10951	58	5395	1029	68834	2902	7975	2142	126589	63	3993	9	1127	1535	137807	467	34901	8379	397572
2013	142	13642	80	9060	1059	79353	3022	9314	2153	131269	18	2257	25	2547	1764	161971	552	40095	8815	449508
2014	60	4984	20	2778	903	59751	2133	7103	1578	95680	39	1870	7	291	1295	114808	614	43511	6649	330776
2015	33	2740	18	1110	891	59842	2303	8336	1975	119911	57	2835	10	755	1585	132190	699	53438	7571	381157

• Excluding underground pumps and ventilators.

STATEMENT NO. 4.2  
MACHINERIES USED IN BELOWGROUND WORKINGS IN COAL MINES DURING THE YEAR, 2015.

STATE/DISTRICT	COAL CUTTING MACHINES			MECHANICAL LOADERS			MECH. CUTTER/LOADERS			ROPE HAULAGES		
	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>ASSAM</b>												
Tinsukia	--	--	--	--	--	--	--	--	--	1	5	425
<b>CHHATTISGARH</b>												
Bilaspur	--	--	--	1	4	250	--	--	--	1	4	230
Raigarh	--	--	--	4	52	2700	--	--	--	4	24	1390
Surguja	--	--	--	8	37	2131	--	--	--	7	68	3859
Korea	--	--	--	5	30	1711	1	2	130	8	119	8498
Korba	--	--	--	8	36	2226	--	--	--	10	60	2934
Surajpur	--	--	--	1	2	50	--	--	--	1	5	250
<b>TOTAL:CHHATTISGARH</b>	--	--	--	27	161	9068	1	2	130	31	280	17161
<b>JHARKHAND</b>												
Deochar	--	--	--	--	--	--	--	--	--	--	--	--
Dhanbad	2	12	1090	29	108	7710	--	--	--	37	235	15567
Giridih	--	--	--	--	--	--	--	--	--	--	--	--
Godda	--	--	--	--	--	--	--	--	--	--	--	--
Hazaribagh	--	--	--	7	25	1555	--	--	--	11	40	2533
Palamau	--	--	--	--	--	--	--	--	--	--	--	--
Ranchi	--	--	--	1	2	150	--	--	--	1	1	60
Sahebganj	--	--	--	--	--	--	--	--	--	--	--	--
Bokaro	--	--	--	2	4	190	--	--	--	7	34	1865
Chatra	--	--	--	1	1	50	--	--	--	1	3	190
Latehar	--	--	--	--	--	--	--	--	--	--	--	--
Ramgarh	--	--	--	1	4	260	--	--	--	1	2	200
<b>TOTAL:JHARKHAND</b>	2	12	1090	41	144	9915	--	--	--	58	315	20415
<b>JAMMU &amp; KASHMIR</b>												
Rajauri	--	--	--	--	--	--	--	--	--	1	1	50
<b>MADHYA PRADESH</b>												
Narsigpur	--	--	--	--	--	--	--	--	--	--	--	--
Betul	--	--	--	4	34	1795	--	--	--	6	54	3067
Chhindwara	--	--	--	12	55	2855	--	--	--	12	65	2914
Shahdol	--	--	--	10	60	6205	--	--	--	13	63	3571
Sidhi	--	--	--	--	--	--	--	--	--	--	--	--
Umaria	--	--	--	4	23	1495	--	--	--	7	52	2919
Anuppur	--	--	--	1	8	450	--	--	--	2	11	460
Singrauli	--	--	--	--	--	--	--	--	--	--	--	--
<b>TOTAL:MADHYA PRADESH</b>	--	--	--	31	180	12800	--	--	--	40	245	12931
<b>MAHARASHTRA</b>												
Chandrapur	--	--	--	7	28	1935	1	6	330	10	84	5050
Nagpur	--	--	--	7	32	2078	--	--	--	8	73	4434
Yavatmal	--	--	--	2	7	705	--	--	--	2	23	1940
<b>TOTAL:MAHARASHTRA</b>	--	--	--	16	67	4718	1	6	330	20	180	11424
<b>ORISSA</b>												
Angul	--	--	--	1	10	500	--	--	--	--	--	--
Sambalpur	--	--	--	--	--	--	--	--	--	--	--	--
Sundergarh	--	--	--	--	--	--	--	--	--	--	--	--
Jharsuguda	1	1	100	1	9	446	--	--	--	4	32	2226

STATEMENT NO. 4.2  
MACHINERIES USED IN BELOWGROUND WORKINGS IN COAL MINES DURING THE YEAR, 2015.

STATE/DISTRICT	COAL CUTTING MACHINES			MECHANICAL LOADERS			MECH. CUTTER/LOADERS			ROPE HAULAGES		
	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13
TOTAL:ORISSA	1	1	100	2	19	946	--	--	--	4	32	2226
Telangana												
Adilabad	2	9	960	11	67	4735	1	6	390	12	257	15322
Karimnagar	--	--	--	7	38	2420	--	--	--	8	129	9712
Khammam	--	--	--	3	20	1300	--	--	--	4	93	5458
Warangal	--	--	--	3	20	1222	--	--	--	3	58	3682
TOTAL:Telangana	2	9	960	24	145	9677	1	6	390	27	537	34174
UTTAR PRADESH												
Sonebhadra	--	--	--	--	--	--	--	--	--	--	--	--
WEST BENGAL												
Bankura	1	2	130	1	6	390	--	--	--	1	9	450
Birbhum	--	--	--	--	--	--	--	--	--	--	--	--
Burdwan	3	9	460	43	162	11878	1	4	260	62	364	20235
Purulia	--	--	--	1	7	450	--	--	--	1	7	420
TOTAL:WEST BENGAL	4	11	590	45	175	12718	1	4	260	64	380	21105
GUJARAT												
Bharuch	--	--	--	--	--	--	--	--	--	--	--	--
Bhavanagar	--	--	--	--	--	--	--	--	--	--	--	--
Kutch	--	--	--	--	--	--	--	--	--	--	--	--
Surat	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL:GUJARAT	--	--	--	--	--	--	--	--	--	--	--	--
RAJASTHAN												
Barmer	--	--	--	--	--	--	--	--	--	--	--	--
Bikaner	--	--	--	--	--	--	--	--	--	--	--	--
Nagaur	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL:RAJASTHAN	--	--	--	--	--	--	--	--	--	--	--	--
TAMILNADU												
Cuddalore	--	--	--	--	--	--	--	--	--	--	--	--
ALL INDIA :	9	33	2740	186	891	59842	4	18	1110	246	1975	119911

STATEMENT NO. 4.2 (Cont...)  
MACHINERIES USED IN BELOWGROUND WORKINGS IN COAL MINES DURING THE YEAR, 2015.

STATE/DISTRICT	CONVEYORS			DRILLS			SHUTTLE CARS			LOCOMOTIVES			OTHERS		
	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.
1	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
<b>ASSAM</b>															
Tinsukia	1	1	100	1	11	16	--	--	--	1	1	20	1	20	120
<b>CHATTISGARH</b>															
Bilaspur	1	10	750	1	2	3	--	--	--	--	--	--	1	7	308
Raigarh	4	59	3234	4	87	979	--	--	--	--	--	--	3	44	1610
Surguja	8	111	7173	8	114	191	--	--	--	--	--	--	5	29	2922
Korea	8	141	5951	8	78	168	--	--	--	--	--	--	3	9	395
Korba	9	78	6525	9	97	900	--	--	--	--	--	--	6	23	3814
Surajpur	1	6	360	1	15	22	--	--	--	--	--	--	--	--	--
<b>TOTAL:CHATTISGARH</b>	<b>31</b>	<b>405</b>	<b>23993</b>	<b>31</b>	<b>393</b>	<b>2263</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>18</b>	<b>112</b>	<b>9049</b>
<b>JHARKHAND</b>															
Deoghar	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dhanbad	18	245	16969	33	234	548	1	1	--	3	46	2143	17	90	4544
Giridih	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Godda	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hazaribagh	2	5	330	11	54	237	--	--	--	--	--	--	2	10	480
Palamau	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ranchi	1	4	400	1	4	6	--	--	--	--	--	--	1	2	85
Sahebganj	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bokaro	3	20	1140	7	22	35	--	--	--	--	--	--	2	17	1020
Chatra	1	13	705	1	5	8	--	--	--	--	--	--	1	11	1120
Latehar	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ramgarh	--	--	--	1	7	11	--	--	--	--	--	--	--	--	--
<b>TOTAL:JHARKHAND</b>	<b>25</b>	<b>287</b>	<b>19544</b>	<b>54</b>	<b>326</b>	<b>845</b>	<b>1</b>	<b>1</b>	<b>--</b>	<b>3</b>	<b>46</b>	<b>2143</b>	<b>23</b>	<b>130</b>	<b>7249</b>
<b>JAMMU &amp; KASHMIR</b>															
Rajauri	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>MADHYA PRADESH</b>															
Narsigpur	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Betul	4	54	4490	5	88	561	--	--	--	--	--	--	3	37	2490
Chhindwara	7	72	7203	14	143	485	1	2	200	--	--	--	5	33	1501
Shahdol	12	92	8035	13	123	245	--	--	--	1	9	450	5	24	2885
Sidhi	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Umaria	5	48	2845	5	45	72	--	--	--	--	--	--	3	11	235
Anuppur	2	24	2095	2	24	37	--	--	--	--	--	--	2	12	550
Singrauli	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>TOTAL:MADHYA PRADESH</b>	<b>30</b>	<b>290</b>	<b>24668</b>	<b>39</b>	<b>423</b>	<b>1400</b>	<b>1</b>	<b>2</b>	<b>200</b>	<b>1</b>	<b>9</b>	<b>450</b>	<b>18</b>	<b>117</b>	<b>7661</b>
<b>MAHARASHTRA</b>															
Chandrapur	5	73	5417	9	103	156	--	--	--	--	--	--	4	36	3838
Nagpur	8	73	6646	8	91	487	--	--	--	--	--	--	5	23	823
Yavatmal	1	11	960	1	10	150	--	--	--	--	--	--	--	--	--
<b>TOTAL:MAHARASHTRA</b>	<b>14</b>	<b>157</b>	<b>13023</b>	<b>18</b>	<b>204</b>	<b>793</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>9</b>	<b>59</b>	<b>4661</b>
<b>ORISSA</b>															
Angul	1	9	450	1	14	21	--	--	--	--	--	--	1	2	40
Sambalpur	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sundergarh	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jharsuguda	4	31	3260	3	23	230	--	--	--	--	--	--	2	21	1332
<b>TOTAL:ORISSA</b>	<b>5</b>	<b>40</b>	<b>3710</b>	<b>4</b>	<b>37</b>	<b>251</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>3</b>	<b>23</b>	<b>1372</b>
<b>Telangana</b>															
Adilabad	4	37	5234	11	282	617	1	2	180	1	1	222	4	29	1504
Karimnagar	5	115	14076	8	180	368	--	--	--	--	--	--	3	81	8256
Khammam	4	71	7354	4	65	109	1	3	55	--	--	--	3	13	784
Warangal	2	22	1314	3	71	107	--	--	--	--	--	--	2	23	4587
<b>TOTAL:Telangana</b>	<b>15</b>	<b>245</b>	<b>27978</b>	<b>26</b>	<b>598</b>	<b>1201</b>	<b>2</b>	<b>5</b>	<b>235</b>	<b>1</b>	<b>1</b>	<b>222</b>	<b>12</b>	<b>146</b>	<b>15131</b>

STATEMENT NO. 4.2 (Cont...)  
MACHINERIES USED IN BELOWGROUND WORKINGS IN COAL MINES DURING THE YEAR, 2015.

STATE/DISTRICT	CONVEYORS			DRILLS			SHUTTLE CARS			LOCOMOTIVES			OTHERS		
	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.
1	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
-----															
UTTAR PRADESH															
Sonebhadra	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
-----															
WEST BENGAL															
Bankura	--	--	--	1	5	6	--	--	--	--	--	--	1	2	65
Birbhum	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Burdwan	20	160	19174	59	303	1556	1	2	320	--	--	--	25	87	7955
Purulia	--	--	--	1	3	5	--	--	--	--	--	--	2	3	175
TOTAL:WEST BENGAL	20	160	19174	61	311	1567	1	2	320	--	--	--	28	92	8195
-----															
GUJARAT															
Bharuch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bhavanagar	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Kutch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Surat	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL:GUJARAT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
-----															
RAJASTHAN															
Barmer	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bikaner	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nagaur	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL:RAJASTHAN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
-----															
TAMILNADU															
Cuddalore	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ALL INDIA :	141	1585	132190	234	2303	8336	5	10	755	6	57	2835	112	699	53438
-----															

**STATEMENT No. 4.3**

**TREND IN USAGE OF MACHINERIES IN OPENCAST WORKINGS**

Machineries	2006		2007		2008		2009		2010		2011		2012		2013		2014		2015	
	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.	No.	H.P.
1	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Shovel	1088	448264	1188	511520	1247	548029	1320	557498	1499	567145	1576	656597	1610	645791	1644	690372	1320	548005	<b>1357</b>	<b>544291</b>
Drill	861	303143	1023	397481	1018	349428	920	326280	980	322643	914	338198	952	328475	950	354168	745	264843	<b>836</b>	<b>289712</b>
Dragline	28	76853	33	77022	48	113359	40	99700	42	97924	46	105391	43	99177	41	103637	28	54183	<b>21</b>	<b>83222</b>
Dozer	1151	418210	1382	495484	1411	501190	1410	523998	1437	487252	1570	521331	1488	521347	1606	548184	1361	457289	<b>1205</b>	<b>412871</b>
Dumper	4391	2363973	4634	2506481	4994	2685842	5324	2827622	5455	2693218	6286	3141190	5850	3203992	6339	3498081	5299	2798461	<b>5137</b>	<b>2692250</b>
Scraper	1	147	4	1107	5	1410	3	960	6	1469	18	2749	8	1067	23	2562	2	100	<b>4</b>	<b>380</b>
Grader	237	50511	276	64320	276	58515	359	63527	388	67079	416	74295	404	70618	433	79487	283	61756	<b>308</b>	<b>62789</b>
Loader	78	22481	126	36253	156	36673	134	3425	142	28922	147	30939	169	40173	165	46247	203	45866	<b>169</b>	<b>50581</b>
Crane	249	34086	368	48659	399	52317	426	49472	431	46558	440	41616	463	48959	468	47386	379	41955	<b>364</b>	<b>57425</b>
Others	290	80591	413	111542	532	132206	418	105412	472	125650	504	97258	405	92799	662	168840	278	82747	<b>555</b>	<b>102107</b>
<b>Total</b>	<b>8374</b>	<b>3798259</b>	<b>9447</b>	<b>4249869</b>	<b>10086</b>	<b>4478969</b>	<b>10354</b>	<b>4557894</b>	<b>10852</b>	<b>4437860</b>	<b>11917</b>	<b>5009564</b>	<b>11392</b>	<b>5052398</b>	<b>12331</b>	<b>5538964</b>	<b>9898</b>	<b>4355205</b>	<b>9958</b>	<b>4295628</b>



## STATEMENT NO. 4.4

## MACHINERIES USED IN OPENCAST WORKINGS IN COAL MINES DURING THE YEAR, 2015.

STATE/DISTRICT	SHOVELS			DUMPERS			DRILLS			DOZERS			CRANES		
	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
ASSAM															
Tinsukia	3	33	10065	2	136	53590	3	17	2929	2	19	3692	--	--	--
CHHATTISGARH															
Bilaspur	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Raigarh	9	43	12084	8	217	78900	8	18	4797	9	28	7209	2	2	380
Surguja	7	35	19063	7	117	34810	8	21	6460	7	42	13396	2	4	878
Korea	--	--	--	--	--	--	2	13	3419	--	--	--	1	1	100
Korba	7	50	17364	4	144	119253	4	50	14643	3	57	20180	3	29	6096
Surajpur	1	6	1920	1	25	1000	1	2	230	1	4	1226	--	--	--
TOTAL:CHHATTISGARH	24	134	50431	20	503	233963	23	104	29549	20	131	42011	8	36	7454
JHARKHAND															
Deoghar	3	19	5870	3	57	21660	3	10	3700	3	15	5220	--	--	--
Dhanbad	25	123	38111	23	407	174329	23	76	23151	21	100	34903	9	12	2368
Giridih	2	15	4520	2	37	9020	2	14	8570	2	25	8330	2	2	370
Godda	1	4	1742	1	47	3780	1	4	1520	1	19	7790	1	4	920
Hazaribagh	15	53	16784	14	155	74933	15	44	14368	12	32	11414	5	10	1543
Palamau	--	--	--	1	4	1280	1	1	380	--	--	--	--	--	--
Ranchi	5	23	6625	5	95	24175	5	14	4840	5	40	8440	3	14	2060
Sahebganj	--	--	--	--	--	--	1	1	75	1	1	400	--	--	--
Bokaro	11	38	16829	13	158	86934	11	32	11096	9	40	14850	4	10	1061
Chatra	1	7	2660	1	32	12160	1	10	3800	1	8	3040	1	1	100
Latehar	1	2	660	1	17	712	1	2	640	1	2	370	--	--	--
Ramgarh	2	10	3556	2	26	7832	2	6	2280	2	10	3200	--	--	--
TOTAL:JHARKHAND	66	294	97357	66	1035	416815	66	214	74420	58	292	97957	25	53	8422
JAMMU & KASHMIR															
Rajauri	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MADHYA PRADESH															
Narsigpur	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Betul	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chhindwara	5	17	4900	5	57	18088	5	17	5200	3	8	2200	2	5	1306
Shahdol	4	32	9320	4	65	20956	4	18	6237	1	4	1440	1	3	294
Sidhi	3	35	29407	4	216	221328	2	15	6497	4	64	26530	3	15	1742
Umaria	1	3	990	1	20	6140	1	6	450	--	--	--	--	--	--
Anuppur	1	4	1120	1	12	3360	1	4	1100	1	2	560	1	1	265
Singrauli	3	19	38515	3	92	157834	3	23	11020	3	37	17720	2	9	2081
TOTAL:MADHYA PRADESH	17	110	84252	18	462	427706	16	83	30504	12	115	48450	9	33	5688
MAHARASHTRA															
Chandrapur	14	108	43241	14	322	197216	14	63	21081	12	79	27399	11	35	4147
Nagpur	7	52	20077	6	153	88668	6	31	9684	7	33	12555	5	12	1407
Yavatmal	11	74	27280	8	222	132607	9	38	12605	11	54	16949	7	24	1883
TOTAL:MAHARASHTRA	32	234	90598	28	697	418491	29	132	43370	30	166	56903	23	71	7437
ORISSA															
Angul	8	53	21978	7	179	114169	8	47	15865	6	66	23550	6	24	2352
Sambalpur	1	6	826	1	29	4865	1	1	450	1	3	1050	1	1	32
Sundergarh	2	8	2360	2	25	8360	2	7	2160	2	5	1600	2	4	800
Jharsuguda	5	29	9067	5	119	86958	5	29	19699	5	35	13051	3	17	1965
TOTAL:ORISSA	16	96	34231	15	352	214352	16	84	38174	14	109	39251	12	46	5149
Telangana															
Adilabad	6	19	5117	5	53	20500	5	8	2690	5	20	5716	3	5	427
Karimnagar	3	27	19008	3	156	120390	3	22	8070	3	38	14860	1	4	100
Khammam	6	49	21246	6	309	136126	5	26	10875	5	45	17720	4	28	6283
Warangal	1	3	725	1	7	2660	1	1	300	1	2	300	1	1	50

## STATEMENT NO. 4.4(Cont..)

## MACHINERIES USED IN OPENCAST WORKINGS IN COAL MINES DURING THE YEAR, 2015.

STATE/DISTRICT	SHOVELS			DUMPERS			DRILLS			DOZERS			CRANES		
	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
TOTAL:Telangana	16	98	46096	15	525	279676	14	57	21935	14	105	38596	9	38	6860
UTTAR PRADESH															
Sonebhadra	5	40	21260	5	132	135846	5	43	17400	4	50	20870	3	13	1694
WEST BENGAL															
Bankura	1	9	7149	2	22	23542	2	6	1680	1	5	2175	1	1	825
Birbhum	2	6	3944	2	18	9600	--	--	--	2	6	1560	--	--	--
Burdwan	20	93	41924	17	404	186503	17	59	20555	17	83	26575	4	10	2637
Purulia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL:WEST BENGAL	23	108	53017	21	444	219645	19	65	22235	20	94	30310	5	11	3462
GUJARAT															
Bharuch	2	24	6930	2	80	31546	1	2	286	2	11	957	--	--	--
Bhavanagar	2	36	9153	2	67	27746	--	--	--	2	8	1128	--	--	--
Kutch	3	23	6407	3	96	34852	2	9	2130	3	14	2610	1	2	260
Surat	2	20	2685	2	103	9385	1	9	2880	2	9	1855	1	3	640
TOTAL:GUJARAT	9	103	25175	9	346	103529	4	20	5296	9	42	6550	2	5	900
RAJASTHAN															
Barmer	3	77	23468	3	374	141405	--	--	--	3	22	4166	--	--	--
Bikaner	2	12	3634	1	55	19520	--	--	--	1	6	1200	--	--	--
Nagaur	1	13	2711	1	52	19060	--	--	--	1	4	840	--	--	--
TOTAL:RAJASTHAN	6	102	29813	5	481	179985	--	--	--	5	32	6206	--	--	--
TAMILNADU															
Cuddalore	2	5	1996	2	24	8652	2	17	3900	2	50	22075	2	58	10359
ALL INDIA :	219	1357	544291	206	5137	2692250	197	836	289712	190	1205	412871	98	364	57425

## STATEMENT NO. 4.4 (Cont...)

## MACHINERIES USED IN OPENCAST WORKINGS IN COAL MINES DURING THE YEAR, 2015.

STATE/DISTRICT	SCRAPERS			DRAGLINES			LOADERS			GRADERS			OTHERS		
	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.
1	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
ASSAM															
Tinsukia	--	--	--	--	--	--	--	--	--	2	4	682	1	4	440
CHATTISGARH															
Bilaspur	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Raigarh	--	--	--	--	--	--	5	11	1710	4	6	1029	3	4	1710
Surguja	--	--	--	1	1	3000	3	10	1348	5	6	1480	4	25	4396
Korea	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Korba	--	--	--	--	--	--	3	13	2765	3	25	4792	3	70	7317
Surajpur	--	--	--	--	--	--	1	4	460	1	1	190	1	10	1600
TOTAL:CHATTISGARH	--	--	--	1	1	3000	12	38	6283	13	38	7491	11	109	15023
JHARKHAND															
Deoghar	--	--	--	--	--	--	1	1	40	1	1	120	--	--	--
Dhanbad	--	--	--	2	5	1660	1	1	350	7	8	1991	2	12	630
Giridih	--	--	--	--	--	--	2	2	1080	--	--	--	--	--	--
Godda	--	--	--	--	--	--	1	3	2461	1	6	1680	--	--	--
Hazaribagh	--	--	--	--	--	--	3	5	2910	9	11	2426	4	11	3491
Palamau	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ranchi	--	--	--	--	--	--	3	9	1552	5	9	2455	3	13	2010
Sahebganj	--	--	--	--	--	--	--	--	--	--	--	--	1	1	34
Bokaro	--	--	--	1	1	1000	2	4	1927	5	7	1487	4	9	2517
Chatra	--	--	--	--	--	--	1	3	300	1	1	90	--	--	--
Latehar	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ramgarh	--	--	--	--	--	--	1	1	430	2	4	1065	2	8	2274
TOTAL:JHARKHAND	--	--	--	3	6	2660	15	29	11050	31	47	11314	16	54	10956
JAMMU & KASHMIR															
Rajauri	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MADHYA PRADESH															
Narsigpur	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Betul	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chhindwara	--	--	--	--	--	--	--	--	--	2	3	824	1	3	400
Shahdol	--	--	--	1	1	1676	1	2	258	1	6	1698	--	--	--
Sidhi	--	--	--	1	2	7000	2	2	980	3	15	4065	--	--	--
Umaria	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anuppur	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Singrauli	--	--	--	1	2	46200	3	4	5526	3	11	2900	2	31	3676
TOTAL:MADHYA PRADESH	--	--	--	3	5	54876	6	8	6764	9	35	9487	3	34	4076
MAHARASHTRA															
Chandrapur	--	--	--	1	1	3591	3	4	830	9	17	3440	6	20	6638
Nagpur	--	--	--	--	--	--	--	--	--	3	4	710	4	54	4485
Yavatmal	1	4	380	--	--	--	1	1	218	8	12	3142	3	5	1240
TOTAL:MAHARASHTRA	1	4	380	1	1	3591	4	5	1048	20	33	7292	13	79	12363
ORISSA															
Angul	--	--	--	1	1	3015	3	18	6570	5	12	2785	2	32	4840
Sambalpur	--	--	--	--	--	--	1	8	852	1	3	317	1	7	5840
Sundergarh	--	--	--	--	--	--	1	1	150	1	1	100	--	--	--
Jharsuguda	--	--	--	--	--	--	2	4	312	4	7	1708	1	1	140
TOTAL:ORISSA	--	--	--	1	1	3015	7	31	7884	11	23	4910	4	40	10820
Telangana															
Adilabad	--	--	--	--	--	--	--	--	--	4	7	1155	4	9	2437
Karimnagar	--	--	--	1	1	3500	2	5	902	3	13	3310	1	18	11633
Khammam	--	--	--	--	--	--	5	15	3082	5	16	3670	6	77	8474
Warangal	--	--	--	--	--	--	--	--	--	1	1	145	--	--	--
TOTAL:Telangana	--	--	--	1	1	3500	7	20	3984	13	37	8280	11	104	22544

## MACHINERIES USED IN OPENCAST WORKINGS IN COAL MINES DURING THE YEAR, 2015.

STATE/DISTRICT	SCRAPERS			DRAGLINES			LOADERS			GRADERS			OTHERS		
	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.
1	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
-----															
UTTAR PRADESH															
Sonebhadra	--	--	--	2	6	12580	3	8	2112	4	15	3334	3	6	2626
-----															
WEST BENGAL															
Bankura	--	--	--	--	--	--	--	--	--	1	1	203	--	--	--
Birbhum	--	--	--	--	--	--	2	2	6106	--	--	--	1	1	160
Burdwan	--	--	--	--	--	--	3	4	900	6	12	2393	6	49	8948
Purulia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
-----															
TOTAL:WEST BENGAL	--	--	--	--	--	--	5	6	7006	7	13	2596	7	50	9108
-----															
GUJARAT															
Bharuch	--	--	--	--	--	--	--	--	--	1	2	362	1	8	2465
Bhavanagar	--	--	--	--	--	--	--	--	--	2	5	671	2	6	1585
Kutch	--	--	--	--	--	--	1	3	380	1	4	640	1	18	3708
Surat	--	--	--	--	--	--	--	--	--	2	4	447	--	--	--
-----															
TOTAL:GUJARAT	--	--	--	--	--	--	1	3	380	6	15	2120	4	32	7758
-----															
RAJASTHAN															
Barmer	--	--	--	--	--	--	1	9	1720	3	10	1836	2	13	280
Bikaner	--	--	--	--	--	--	1	1	180	1	4	586	1	8	1200
Nagaur	--	--	--	--	--	--	--	--	--	1	2	558	1	2	275
-----															
TOTAL:RAJASTHAN	--	--	--	--	--	--	2	10	1900	5	16	2980	4	23	1755
-----															
TAMILNADU															
Cuddalore	--	--	--	--	--	--	2	11	2170	2	32	2303	1	20	4638
-----															
ALL INDIA :	1	4	380	12	21	83222	64	169	50581	123	308	62789	78	555	102107
-----															

STATEMENT NO. 4.5  
MACHINERIES USED IN ABOVEGROUND WORKINGS IN COAL MINES DURING THE YEAR, 2015.

STATE/DISTRICT	HAULAGE			DUMMOERS			CONVEYORS			LOCOMOTIVES			LOADERS			OTHERS		
	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1. COAL																		
ASSAM																		
Tinsukia	1	3	320	1	2	70	1	1	30	1	3	215	--	--	--	--	--	--
CHHATTISGARH																		
Bilaspur	1	1	50	--	--	--	1	1	145	--	--	--	--	--	--	--	--	--
Raigarh	5	9	979	1	2	320	4	10	930	--	--	--	--	--	--	1	1	280
Surguja	8	19	1897	1	70	15100	7	17	2312	--	--	--	1	4	500	--	--	--
Korea	9	13	1121	1	4	840	8	48	3008	--	--	--	--	--	--	2	2	40
Korba	8	10	818	1	1	251	10	93	16303	--	--	--	--	--	--	--	--	--
Surajpur	1	1	150	1	10	1600	1	1	90	--	--	--	1	4	460	--	--	--
TOTAL : CHHATTISGARH	32	53	5015	5	87	18111	31	170	22788	--	--	--	2	8	960	3	3	320
JHARKHAND																		
Deoghar	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dhanbad	17	37	3163	7	84	3016	9	35	1577	3	11	453	--	--	--	1	2	160
Giridih	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Godda	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hazaribagh	13	29	2673	1	8	739	6	23	1680	1	1	120	--	--	--	2	25	2159
Palamau	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ranchi	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sahebganj	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bokaro	6	18	2711	1	12	7200	1	6	550	--	--	--	--	--	--	--	--	--
Chatra	1	2	190	1	1	35	1	1	200	--	--	--	--	--	--	--	--	--
Latehar	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ramgarh	--	--	--	1	10	6596	1	3	325	--	--	--	--	--	--	--	--	--
TOTAL : JHARKHAND	37	86	8737	11	115	17586	18	68	4332	4	12	573	--	--	--	3	27	2319
JAMMU & KASHMIR																		
Rajauri	1	2	300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MADHYA PRADESH																		
Narsigpur	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Betul	6	6	503	1	1	32	4	10	569	--	--	--	--	--	--	3	6	428
Chhindwara	13	18	2021	2	3	340	9	12	1500	--	--	--	1	1	200	4	24	345
Shahdol	14	19	1795	--	--	--	10	24	3900	--	--	--	--	--	--	4	19	387
Sidhi	--	--	--	1	8	2576	3	56	16500	--	--	--	--	--	--	--	--	--
Umaria	5	11	845	1	1	80	4	12	670	--	--	--	--	--	--	--	--	--
Anuppur	2	4	500	--	--	--	2	4	500	--	--	--	--	--	--	--	--	--
Singrauli	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL : MADHYA PRADESH	40	58	5664	5	13	3028	32	118	23639	--	--	--	1	1	200	11	49	1160
MAHARASHTRA																		
Chandrapur	11	15	1435	3	9	940	13	43	4142	--	--	--	1	1	250	4	12	1417
Nagpur	7	7	597	--	--	--	6	14	1506	--	--	--	--	--	--	2	11	129
Yavatmal	1	2	100	--	--	--	2	2	195	--	--	--	--	--	--	--	--	--
TOTAL : MAHARASHTRA	19	24	2132	3	9	940	21	59	5843	--	--	--	1	1	250	6	23	1546
ORISSA																		
Angul	--	--	--	2	49	31108	4	50	4600	--	--	--	--	--	--	2	18	3315
Sambalpur	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sundergarh	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

STATEMENT NO. 4.5  
MACHINERIES USED IN ABOVEGROUND WORKINGS IN COAL MINES DURING THE YEAR, 2015.

STATE/DISTRICT	HAULAGE			DUMMOERS			CONVEYORS			LOCOMOTIVES			LOADERS			OTHERS		
	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.	NO.OF MINES USING	NUMBER IN USE	TOTAL H.P.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Jharsuguda	4	10	801	1	5	560	2	2	271	--	--	--	1	5	1125	1	5	140
<b>TOTAL : ORISSA</b>	<b>4</b>	<b>10</b>	<b>801</b>	<b>3</b>	<b>54</b>	<b>31668</b>	<b>6</b>	<b>52</b>	<b>4871</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1</b>	<b>5</b>	<b>1125</b>	<b>3</b>	<b>23</b>	<b>3455</b>
Telangana																		
Adilabad	11	19	2740	2	5	1590	11	25	3550	1	2	96	--	--	--	3	8	1462
Karimnagar	7	14	2100	1	5	150	5	32	6457	--	--	--	1	1	100	3	14	1905
Khammam	4	8	917	--	--	--	6	16	2266	--	--	--	--	--	--	2	8	320
Warangal	3	8	1200	--	--	--	3	7	640	--	--	--	--	--	--	1	1	100
<b>TOTAL : Telangana</b>	<b>25</b>	<b>49</b>	<b>6957</b>	<b>3</b>	<b>10</b>	<b>1740</b>	<b>25</b>	<b>80</b>	<b>12913</b>	<b>1</b>	<b>2</b>	<b>96</b>	<b>1</b>	<b>1</b>	<b>100</b>	<b>9</b>	<b>31</b>	<b>3787</b>
UTTAR PRADESH																		
Sonebhadra	--	--	--	--	--	--	1	8	2576	--	--	--	--	--	--	--	--	--
WEST BENGAL																		
Bankura	1	1	100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Birbhum	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Burdwan	28	38	4452	28	75	10600	20	41	4878	1	2	150	--	--	--	7	26	4271
Purulia	2	4	395	--	--	--	--	--	--	--	--	--	--	--	--	2	4	91
<b>TOTAL : WEST BENGAL</b>	<b>31</b>	<b>43</b>	<b>4947</b>	<b>28</b>	<b>75</b>	<b>10600</b>	<b>20</b>	<b>41</b>	<b>4878</b>	<b>1</b>	<b>2</b>	<b>150</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>9</b>	<b>30</b>	<b>4362</b>
<b>ALL INDIA : COAL</b>	<b>190</b>	<b>328</b>	<b>34873</b>	<b>59</b>	<b>365</b>	<b>83743</b>	<b>155</b>	<b>597</b>	<b>81870</b>	<b>7</b>	<b>19</b>	<b>1034</b>	<b>6</b>	<b>16</b>	<b>2635</b>	<b>44</b>	<b>186</b>	<b>16949</b>
2. LIGNITE																		
GUJARAT																		
Bharuch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bhavanagar	--	--	--	1	3	375	1	1	180	--	--	--	--	--	--	1	2	165
Kutch	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Surat	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>TOTAL : GUJARAT</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1</b>	<b>3</b>	<b>375</b>	<b>1</b>	<b>1</b>	<b>180</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1</b>	<b>2</b>	<b>165</b>
RAJASTHAN																		
Barmer	1	1	125	--	--	--	1	3	375	--	--	--	--	--	--	1	1	135
Bikaner	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nagaur	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>TOTAL : RAJASTHAN</b>	<b>1</b>	<b>1</b>	<b>125</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1</b>	<b>3</b>	<b>375</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1</b>	<b>1</b>	<b>135</b>
TAMILNADU																		
Cuddalore	--	--	--	--	--	--	2	4	1253	--	--	--	--	--	--	--	--	--
<b>ALL INDIA : LIGNITE</b>	<b>1</b>	<b>1</b>	<b>125</b>	<b>1</b>	<b>3</b>	<b>375</b>	<b>4</b>	<b>8</b>	<b>1808</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>2</b>	<b>3</b>	<b>300</b>
<b>ALL INDIA: COAL &amp; LIGNITE</b>	<b>191</b>	<b>329</b>	<b>34998</b>	<b>60</b>	<b>368</b>	<b>84118</b>	<b>159</b>	<b>605</b>	<b>83678</b>	<b>7</b>	<b>19</b>	<b>1034</b>	<b>6</b>	<b>16</b>	<b>2635</b>	<b>46</b>	<b>189</b>	<b>17249</b>

STATEMENT NO. 4.6  
VENTILATORS, WINDING ENGINES, PUMPS, C.H.P. & WORKSHOP MACHINERIES USED DURING THE YEAR, 2015.

STATE/DISTRICT	VENTILATOR				WINDING ENGINES				PUMPS						COAL HANDLING PLANTS		WORKSHOP MACHINERIES ELECTRICAL	
	MAIN		BELOWGROUND		ELECTRICAL		STEAM		BELOWGROUND		OPENCASE		ABOVE GROUND		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. COAL																		
ARUNACHAL PRADESH																		
Chaglong	--	--	--	--	--	--	--	--	--	--	2	300	--	--	--	--	3	10
ASSAM																		
Tinsukia	2	70	2	40	--	--	--	--	7	950	8	1550	5	1411	--	--	9	32
CHHATTISGARH																		
Bilaspur	1	200	--	--	--	--	--	--	6	1550	--	--	2	140	--	--	9	135
Raigarh	5	970	17	640	--	--	--	--	53	2163	38	4234	36	2413	1	1000	10	50
Surguja	6	780	6	122	--	--	--	--	48	5295	28	4693	32	3206	--	--	33	209
Korea	14	3016	10	542	--	--	2	800	91	8850	--	--	77	24690	1	80	62	480
Korba	9	1771	1	15	2	536	--	--	48	8960	93	8278	64	9194	3	24161	80	794
Surajpur	1	300	1	30	--	--	--	--	5	750	4	640	4	380	--	--	--	--
TOTAL : CHHATTISGARH	36	7037	35	1349	2	536	2	800	251	27568	163	17845	215	40023	5	25241	194	1668
JHARKHAND																		
Deoghar	--	--	--	--	--	--	--	--	--	--	8	1877	2	356	--	--	4	10
Dhanbad	84	17863	84	2480	48	25844	16	1470	415	70830	80	15551	203	18264	8	4858	169	1450
Giridih	--	--	--	--	--	--	--	--	--	--	6	1328	4	206	--	--	--	--
Godda	--	--	--	--	--	--	--	--	--	--	8	579	7	507	--	--	--	--
Hazaribagh	25	2425	17	1180	--	--	--	--	61	8571	35	7296	232	25797	--	--	98	529
Palamau	--	--	--	--	--	--	--	--	--	--	18	1942	6	1541	--	--	5	11
Ranchi	1	120	--	--	--	--	--	--	3	360	18	3570	8	582	--	--	17	320
Sahebganj	--	--	--	--	--	--	--	--	--	--	1	25	1	50	--	--	--	--
Bokaro	14	1424	2	353	1	100	--	--	40	3625	33	6404	25	4203	1	2144	24	123
Pakur	--	--	--	--	--	--	--	--	--	--	8	2120	1	124	--	--	--	--
Chatra	2	300	--	--	--	--	--	--	2	200	8	2192	5	251	--	--	9	35
Latehar	--	--	--	--	--	--	--	--	--	--	1	350	2	70	--	--	--	--
Ramgarh	4	600	1	20	--	--	--	--	10	1615	6	1832	3	490	--	--	7	56
TOTAL : JHARKHAND	130	22732	104	4033	49	25944	16	1470	531	85201	230	45066	499	52441	9	7002	333	2534
JAMMU & KASHMIR																		
Rajauri	3	185	--	--	--	--	--	--	7	220	--	--	3	80	--	--	--	--
Udhampur	1	30	--	--	--	--	--	--	1	20	--	--	--	--	--	--	--	--
TOTAL : JAMMU & KASHMIR	4	215	--	--	--	--	--	--	8	240	--	--	3	80	--	--	--	--
MADHYA PRADESH																		
Narsigpur	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Betul	10	2864	17	551	--	--	--	--	20	2378	--	--	7	416	1	140	40	227
Chhindwara	15	2482	9	430	--	--	--	--	54	4925	6	1105	18	563	2	360	75	522
Shahdol	19	2980	23	476	--	--	--	--	126	11187	4	259	45	3411	4	40	60	1423
Sidhi	--	--	--	--	1	600	--	--	--	--	11	3500	13	1725	--	--	37	224
Umaria	8	1474	1	20	1	150	--	--	30	3701	2	120	19	1266	--	--	15	62
Anuppur	--	--	--	--	--	--	--	--	11	1533	--	--	1	100	--	--	6	70
Singrauli	--	--	--	--	--	--	--	--	--	--	3	1355	5	757	1	3270	5	623
TOTAL : MADHYA PRADESH	52	9800	50	1477	2	750	--	--	241	23724	26	6339	108	8238	8	3810	238	3151
MAHARASHTRA																		
Chandrapur	13	1948	7	160	2	127	1	225	70	12953	52	14371	51	7037	8	5814	118	543
Nagpur	10	2016	21	433	--	--	--	--	74	10982	26	10535	28	2012	3	454	51	439
Yavatmal	4	480	1	20	--	--	--	--	12	1597	26	5790	25	4248	2	2960	50	240

STATEMENT NO. 4.6  
VENTILATORS, WINDING ENGINES, PUMPS, C.H.P. & WORKSHOP MACHINERIES USED DURING THE YEAR, 2015.

STATE/DISTRICT	VENTILATOR				WINDING ENGINES				PUMPS						COAL HANDLING PLANTS		WORKSHOP MACHINERIES ELECTRICAL	
	MAIN		BELOWGROUND		ELECTRICAL		STEAM		BELOWGROUND		OPENCAST		ABOVE GROUND		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
TOTAL : MAHARASHTRA	27	4444	29	613	2	127	1	225	156	25532	104	30696	104	13297	13	9228	219	1222
ORISSA																		
Angul	6	1325	5	146	1	160	4	250	20	3400	28	3210	36	3293	--	--	31	232
Sambalpur	--	--	--	--	--	--	--	--	--	--	8	602	--	--	--	--	--	--
Sundergarh	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jharsuguda	8	2040	5	320	--	--	--	--	31	6225	8	2978	17	2690	4	3444	27	211
TOTAL : ORISSA	14	3365	10	466	1	160	4	250	51	9625	44	6790	53	5983	4	3444	58	443
Telangana																		
Adilabad	25	6225	24	730	--	--	--	--	106	18260	28	4358	80	3856	--	--	1	5
Karimnagar	21	5340	24	1275	1	350	--	--	167	23675	24	4005	68	7150	2	290	27	265
Khammam	16	3160	2	200	2	945	--	--	79	12294	46	4120	49	1836	4	7298	56	365
Warangal	9	2100	2	260	--	--	--	--	35	5080	11	1320	18	1525	1	540	--	--
TOTAL : Telangana	71	16825	52	2465	3	1295	--	--	387	59309	109	13803	215	14367	7	8128	84	635
UTTAR PRADESH																		
Sonebhadra	--	--	--	--	--	--	--	--	--	--	33	11953	2	562	3	14873	18	454
WEST BENGAL																		
Bankura	1	175	4	80	--	--	--	--	3	377	5	820	6	89	--	--	--	--
Birbhum	--	--	--	--	--	--	--	--	--	--	7	795	--	--	--	--	--	--
Burdwan	113	16368	5	919	33	6741	82	8942	362	42127	64	13330	228	17309	2	430	146	1099
Purulia	2	340	1	20	--	--	--	--	7	1171	--	--	3	176	--	--	--	--
TOTAL : WEST BENGAL	116	16883	10	1019	33	6741	82	8942	372	43675	76	14945	237	17574	2	430	146	1099
ALL INDIA : COAL	452	81371	292	11462	92	35553	105	11687	2004	275824	795	149287	1441	153976	51	72156	1302	11248
2. LIGNITE																		
GUJARAT																		
Bharuch	--	--	--	--	--	--	--	--	--	--	8	595	5	245	--	--	7	26
Bhavanagar	--	--	--	--	--	--	--	--	--	--	4	277	3	20	--	--	6	15
Kutch	--	--	--	--	--	--	--	--	--	--	16	2430	5	310	--	--	3	23
Surat	--	--	--	--	--	--	--	--	--	--	2	150	1	40	--	--	--	--
TOTAL : GUJARAT	--	--	--	--	--	--	--	--	--	--	30	3452	14	615	--	--	16	64
RAJASTHAN																		
Barmer	--	--	--	--	--	--	--	--	--	--	15	1678	10	1445	--	--	31	70
Bikaner	--	--	--	--	--	--	--	--	--	--	--	--	6	349	--	--	--	--
Nagaur	--	--	--	--	--	--	--	--	--	--	11	1100	--	--	--	--	--	--
TOTAL : RAJASTHAN	--	--	--	--	--	--	--	--	--	--	26	2778	16	1794	--	--	31	70
TAMILNADU																		
Cuddalore	--	--	--	--	--	--	--	--	--	--	66	21920	63	5591	--	--	24	906
ALL INDIA : LIGNITE	--	--	--	--	--	--	--	--	--	--	122	28150	93	8000	--	--	71	1040
ALL INDIA: COAL & LIGNITE	452	81371	292	11462	92	35553	105	11687	2004	275824	917	177437	1534	161976	51	72156	1373	12288



**SECTION – V**

**ACCIDENT**

## STATEMENT NO. 5.0

### Codes for classification of accidents by cause and place of occurrence

Code	Cause of Accident	Code	Cause of Accident
<b>Ground movement</b>		<b>Explosives</b>	
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
<b>Transportation machinery(winding)</b>		<b>Electricity</b>	
0221	Overwinding of cages/skip, etc. (upgoing)	0661	Overhead lines
0222	Breakage of rope, chain, draw/susp. 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	<b>Dust, gas &amp; other combustible material</b>	
<b>Transportation machinery(non winding)</b>		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
<b>Machinery other than transp. machinery</b>		<b>Falls(other than fall of ground)</b>	
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	<b>Other causes</b>	
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 5.0 (continued)**

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

## STATEMENT NO. 5.1

### Trend in number of accidents in coal mines, resultant casualties/seriously injured persons and their rates

Year	Fatal Accidents			Serious Accidents		Rates per thousand Persons Employed		Rates per lakh Manshifts worked		Rates per million Tonnes of Coal raised	
	Number of Accidents	Number of Persons		Number of Accidents	Number of Persons Seriously Injured	Death	Serious Injury	Death	Serious Injury	Death	Serious Injury
		Killed	Seriously Injured								
1	2	3	4	5	6	7	8	9	10	11	12
1992	165	183	60	810	834	0.33	1.62	0.11	0.53	0.73	3.58
1993	156	176	22	854	881	0.32	1.65	0.10	0.53	0.68	3.46
1994	156	241	40	717	735	0.46	1.48	0.15	0.47	0.90	2.90
1995	137	219	23	757	790	0.43	1.58	0.14	0.51	0.77	2.86
1996	131	146	20	677	703	0.29	1.43	0.09	0.45	0.48	2.38
1997	143	165	22	678	704	0.33	1.44	0.10	0.46	0.52	2.29
1998	128	146	18	523	542	0.30	1.14	0.10	0.37	0.46	1.75
1999	127	138	21	595	629	0.29	1.37	0.09	0.44	0.44	2.06
2000	117	144	28	661	679	0.31	1.54	0.10	0.49	0.43	2.11
2001	105	141	14	667	706	0.32	1.64	0.10	0.53	0.41	2.10
2002	81	97	15	629	650	0.23	1.57	0.07	0.50	0.27	1.83
2003	83	113	12	563	578	0.27	1.42	0.09	0.45	0.30	1.56
2004	87	96	14	962	977	0.24	2.45	0.07	0.77	0.23	2.42
2005	96	117	19	1106	1119	0.29	2.85	0.09	0.91	0.28	2.70
2006	78	137	15	861	876	0.36	2.31	0.11	0.73	0.32	2.07
2007	76	78	11	923	940	0.21	2.51	0.06	0.78	0.16	1.98
2008	80	93	16	686	693	0.25	1.92	0.08	0.59	0.18	1.40
2009	83	93	14	636	646	0.25	1.76	0.08	0.55	0.17	1.18
2010	97	118	23	480	488	0.32	1.38	0.10	0.43	0.20	0.85
2011	65	67	10	533	546	0.18	1.52	0.06	0.47	0.11	0.92
2012	79	83	6	536	542	0.23	1.53	0.07	0.47	0.13	0.89
2013	77	82	11	456	457	0.23	1.31	0.07	0.41	0.13	0.74
2014	59	62	3	379	391	0.17	1.11	0.05	0.35	0.10	0.61
2015	54	55	9	302	307	0.16	0.93	0.05	0.29	0.08	0.47

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

## STATEMENT NO. 5.2

### Trend in accident rates and placewise casualty rates in coal mines

Year	Fatal accident rate per 1000 persons employed	Death rate per 1000 persons employed				Serious accident rate per 1000 persons employed	S/Injury rate per 1000 persons employed			
		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
1990	0.27	0.33	0.42	0.20	0.30	1.63	2.38	1.16	0.96	1.79
1991	0.25	0.26	0.39	0.20	0.26	1.45	1.96	1.00	0.98	1.54
1992	0.30	0.39	0.52	0.16	0.33	1.46	2.14	0.79	1.01	1.62
1993	0.29	0.39	0.37	0.19	0.32	1.56	2.19	0.83	1.01	1.65
1994	0.30	0.59	0.64	0.15	0.46	1.37	2.08	0.86	0.67	1.48
1995	0.27	0.60	0.38	0.13	0.43	1.47	2.07	1.05	0.93	1.58
1996	0.26	0.31	0.42	0.19	0.29	1.34	1.83	1.10	0.86	1.43
1997	0.28	0.41	0.42	0.14	0.33	1.35	1.71	1.25	1.05	1.44
1998	0.26	0.36	0.35	0.16	0.30	1.06	1.41	1.06	0.70	1.14
1999	0.27	0.33	0.43	0.16	0.29	1.25	1.73	1.19	0.81	1.37
2000	0.26	0.30	0.74	0.13	0.31	1.44	1.92	1.67	0.82	1.54
2001	0.24	0.43	0.38	0.10	0.32	1.52	2.10	1.12	1.07	1.64
2002	0.19	0.27	0.32	0.11	0.23	1.49	2.07	1.43	0.80	1.57
2003	0.20	0.33	0.35	0.13	0.27	1.35	1.85	1.30	0.77	1.42
2004	0.21	0.27	0.47	0.05	0.24	2.37	3.69	1.24	1.02	2.45
2005	0.20	0.34	0.42	0.15	0.29	2.27	4.23	1.45	1.37	2.85
2006	0.20	0.52	0.33	0.09	0.36	2.23	3.40	1.30	1.11	2.31
2007	0.20	0.13	0.46	0.14	0.21	2.43	3.91	1.10	1.15	2.51
2008	0.22	0.21	0.45	0.18	0.25	1.86	2.87	0.98	0.92	1.92
2009	0.22	0.25	0.40	0.14	0.25	1.70	2.72	0.67	0.93	1.76
2010	0.26	0.33	0.51	0.15	0.32	1.30	2.03	0.83	0.68	1.38
2011	0.17	0.13	0.35	0.13	0.18	1.25	2.23	0.91	0.79	1.52
2012	0.22	0.16	0.43	0.17	0.23	1.49	2.22	0.74	1.03	1.53
2013	0.22	0.14	0.46	0.17	0.23	1.27	2.04	0.67	0.66	1.31
2014	0.16	0.13	0.35	0.08	0.17	1.06	1.60	0.70	0.67	1.11
2015	0.16	0.13	0.29	0.09	0.16	0.89	1.19	0.82	0.58	0.93

## STATEMENT NO. 5.3

### Causewise Trend of Fatal Accidents in Coal Mines

Cause / Year	2010	2011	2012	2013	2014	2015
<b>1. GROUND MOVEMENT</b>						
Fall of Roof	15 (18)	11 (12)	5 (6)	8 (13)	10 (11)	4 (4)
Fall of Side	6 (7)	2 (2)	6 (6)	2 (2)	2 (2)	5 (5)
Other Ground Movement	1 (1)	2 (2)	--	2 (2)	1 (2)	--
<b>2. TRANSPORTATION MACHINERY (WINDING IN SHAFT)</b>	--	1 (1)	--	--	--	--
<b>3. TRANSPORTATION MACHINERY (OTHER THAN WINDING IN SHAFT)</b>						
Rope Haulage	3 (4)	3 (3)	2 (2)	3 (3)	1 (1)	3 (3)
Wheeled Trackless Transp.	34 (36)	23 (24)	27 (27)	29 (29)	17 (18)	16 (17)
Other Transp. Machinery	4 (4)	2 (2)	3 (3)	1 (1)	1 (1)	--
<b>4. MACHINERY OTHER THAN TRANSPORTATION MACHINERY</b>	7 (7)	6 (6)	14 (14)	12 (12)	15 (15)	11 (11)
<b>5. EXPLOSIVES</b>	2 (16)	1 (1)	3 (3)	--	2 (2)	--
<b>6. ELECTRICITY</b>	8 (8)	5 (5)	3 (3)	7 (7)	2 (2)	4 (4)
<b>7. GAS, DUST &amp; OTHER COMBUSTIBLE MATERIAL</b>	1 (1)	--	3 (5)	--	1 (1)	--
<b>8. FALL (OTHER THAN FALLS OF GROUND)</b>						
Fall of Persons	6 (6)	1 (1)	8 (8)	8 (8)	2 (2)	4 (4)
Fall of Objects	4 (4)	4 (4)	1 (1)	3 (3)	2 (2)	2 (2)
Other Falls	--	--	--	2 (2)	--	--
<b>9. OTHER CAUSES</b>						
Irruption of Water	--	--	2 (2)	--	--	1 (1)
Flying Pieces	--	--	--	--	--	--
Miscellaneous	6 (6)	4 (4)	2 (3)	--	3 (3)	4 (4)
<b>T O T A L</b>	<b>97 (118)</b>	<b>65 (67)</b>	<b>79 (83)</b>	<b>77 (82)</b>	<b>59 (62)</b>	<b>54 (55)</b>
<b>BELOW GROUND :</b>	<b>41 (60)</b>	<b>23 (24)</b>	<b>25 (28)</b>	<b>19 (24)</b>	<b>20 (21)</b>	<b>21 (21)</b>
<b>OPENCAST :</b>	<b>40 (42)</b>	<b>29 (30)</b>	<b>37 (38)</b>	<b>40 (40)</b>	<b>31 (33)</b>	<b>25 (26)</b>
<b>ABOVE GROUND :</b>	<b>16 (16)</b>	<b>13 (13)</b>	<b>17 (17)</b>	<b>18 (18)</b>	<b>8 (8)</b>	<b>8 (8)</b>

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

## STATEMENT NO. 5.4

### Causewise Trend of Serious Accidents in Coal Mines

Cause / Year	2010	2011	2012	2013	2014	2015
<b>1. GROUND MOVEMENT</b>						
Fall of Roof	17 (24)	16 (24)	21 (24)	17 (21)	18 (20)	9 (11)
Fall of Side	36 (37)	23 (25)	20 (22)	19 (20)	17 (18)	11 (11)
Other Ground Movement	0 (1)	0 (1)	1 (1)	0 (1)	--	1 (1)
<b>2. TRANSPORTATION MACHINERY (WINDING IN SHAFT)</b>						
	--	14 (19)	4 (5)	3 (3)	5 (5)	3 (3)
<b>3. TRANSPORTATION MACHINERY (OTHER THAN WINDING IN SHAFT)</b>						
Rope Haulage	37 (44)	54 (54)	48 (49)	42 (42)	33 (42)	28 (28)
Wheeled Trackless Transp.	22 (27)	24 (27)	20 (21)	22 (24)	15 (16)	14 (20)
Other Transp. Machinery	13 (13)	11 (12)	8 (8)	9 (9)	2 (2)	4 (4)
<b>4. MACHINERY OTHER THAN TRANSPORTATION MACHINERY</b>						
	24 (24)	33 (34)	23 (23)	27 (27)	25 (26)	18 (18)
<b>5. EXPLOSIVES</b>						
	5 (11)	3 (4)	0 (1)	1 (1)	3 (3)	5 (8)
<b>6. ELECTRICITY</b>						
	3 (3)	1 (1)	3 (3)	2 (6)	3 (3)	3 (5)
<b>7. GAS, DUST &amp; OTHER COMBUSTIBLE MATERIAL</b>						
	--	--	1 (3)	--	2 (2)	1 (1)
<b>8. FALL (OTHER THAN FALLS OF GROUND)</b>						
Fall of Persons	133 (133)	167 (168)	168 (168)	135 (135)	129 (130)	105 (106)
Fall of Objects	84 (86)	74 (74)	87 (87)	88 (88)	59 (59)	46 (46)
Other Falls	4 (4)	6 (6)	9 (9)	6 (6)	7 (7)	2 (2)
<b>9. OTHER CAUSES</b>						
Irruption of Water	--	--	--	--	--	--
Flying Pieces	--	1 (1)	--	--	--	1 (1)
Miscellaneous	102 (104)	106 (106)	123 (124)	85 (85)	61 (61)	51 (51)
<b>T O T A L</b>	<b>480 (511)</b>	<b>533 (556)</b>	<b>536 (548)</b>	<b>456 (468)</b>	<b>379 (394)</b>	<b>302 (316)</b>
<b>BELOW GROUND :</b>	<b>348 (370)</b>	<b>379 (397)</b>	<b>374 (382)</b>	<b>336 (341)</b>	<b>250 (263)</b>	<b>185 (190)</b>
<b>OPENCAST :</b>	<b>62 (69)</b>	<b>73 (78)</b>	<b>61 (65)</b>	<b>56 (59)</b>	<b>64 (66)</b>	<b>67 (73)</b>
<b>ABOVE GROUND :</b>	<b>70 (72)</b>	<b>81 (81)</b>	<b>101 (101)</b>	<b>64 (68)</b>	<b>65 (65)</b>	<b>50 (53)</b>

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

## STATEMENT NO. 5.5

### Causewise trend in dangerous occurrences in coal mines

Sl.	Cause	2009	2010	2011	2012	2013	2014	2015
1	Overwinding of cages, skip or bucket	5	2	1	3	1	2	-
2	Spontaneous heating of coal in underground	-	5	6	6	4	2	-
3	Spontaneous heating of coal on surface	-	-	-	2	3	-	7
4	Spontaneous heating of coal in opencast	3	-	-	1	2	-	-
5	Outbreak of fire underground from spontaneous heating	-	1	-	-	1	-	-
6	Outbreak of fire underground from causes other than spontaneous heating	2	-	-	1	-	-	-
7	Outbreak of fire in quarry from causes other than spontaneous heating	-	-	-	-	1	-	1
8	Outbreak of fire on surface from causes other than spontaneous heating	-	1	-	1	2	2	2
9	Premature collapse of workings or failure of pillars	2	2	-	-	1	-	1
10	Influx of noxious gases	3	2	3	-	2	-	-
11	Breakege of winding rope	1	1	-	-	1	-	-
12	Breakdown of winding engine, crank shaft, bearing etc.	-	-	1	4	1	1	-
13	Ignition or occurence of inflammable gas	-	-	-	-	-	1	-
14	Breakage, fracture or failure of essential parts of machinery or apparatus whereby safety of persons was endangered	-	-	1	-	-	1	6
15	Irruption of water	-	1	1	2	1	4	1
16	Subsidence	-	-	-	-	-	-	-
17	Explosives	-	-	-	-	-	1	-
18	Others	12	10	10	9	27	41	13
<b>Total</b>		<b>28</b>	<b>25</b>	<b>23</b>	<b>29</b>	<b>47</b>	<b>55</b>	<b>31</b>



## STATEMENT NO. 5.6a

### Number of accidents and placewise casualties/seriously injured persons in coal mines by state and district during the year 2015

Sl. No.	Mineral/State/ District	Number of Accidents		No. of Persons Killed						No. of Persons Seriously Injured					
				Below Ground		Opencast		Above Ground		Below Ground			Above Ground		
		Fatal	Serious	M	M	F	M	F	M	M	F	M	F		
		3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>1. COAL</b>															
<b>CHHATTISGARH</b>															
	BILASPUR	0	1	0	0	0	0	0	0	1	0	0	0	0	1
	RAIGARH	0	3	0	0	0	0	0	0	3	0	0	0	0	3
	SURGUJA	0	1	0	0	0	0	0	0	1	0	0	0	0	1
	KOREA	3	4	2	1	0	0	0	3	3	1	0	0	0	4
	KORBA	3	10	1	2	0	0	0	3	2	6	0	2	0	10
	SURAJPUR	2	4	0	1	0	1	0	2	1	0	0	5	0	6
<b>TOTAL : CHHATTISGARH</b>		<b>8</b>	<b>23</b>	<b>3</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>8</b>	<b>11</b>	<b>7</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>25</b>
<b>JHARKHAND</b>															
	DHANBAD	8	15	3	5	0	0	0	8	10	7	0	1	0	18
	HAZARIBAGH	1	5	0	0	0	1	0	1	2	1	0	2	0	5
	BOKARO	2	3	0	1	0	1	0	2	1	1	0	1	0	3
	RAMGARH	0	2	0	0	0	0	0	0	1	1	0	0	0	2
<b>TOTAL : JHARKHAND</b>		<b>11</b>	<b>25</b>	<b>3</b>	<b>6</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>11</b>	<b>14</b>	<b>10</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>28</b>
<b>MADHYA PRADESH</b>															
	BETUL	1	1	1	0	0	0	0	1	0	0	0	1	0	1
	CHHINDWARA	2	3	2	0	0	0	0	2	3	1	0	0	0	4
	SHAHDOL	1	4	1	0	0	0	0	1	3	1	0	0	0	4
	UMARIA	0	3	0	0	0	0	0	0	3	0	0	0	0	3
	ANUPPUR	1	4	1	0	0	0	0	1	5	0	0	0	0	5
	SINGRAULI	2	12	0	3	0	0	0	3	0	10	0	4	0	14
<b>TOTAL : MADHYA PRADESH</b>		<b>7</b>	<b>27</b>	<b>5</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>14</b>	<b>12</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>31</b>
<b>MAHARASHTRA</b>															
	CHANDRAPUR	5	8	2	1	0	2	0	5	2	7	0	2	0	11
	YAVATMAL	0	5	0	0	0	0	0	0	0	4	0	1	0	5
<b>TOTAL : MAHARASHTRA</b>		<b>5</b>	<b>13</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>5</b>	<b>2</b>	<b>11</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>16</b>

**Statement 5.6a (Coninued...)**

Sl. No.	Mineral/State/ District	Number of Accidents		No. of Persons Killed						No. of Persons Seriously Injured					
		Fatal Serious		Below Ground	Opencast			Above Ground	Total	Below Ground	Opencast			Above Ground	Total
		M	F	M	M	F	M	F	M	M	F	M	F	M	F
		5	6	7	8	9	10	11	12	13	14	15	16		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	ORISSA														
	ANGUL	2	2	0	2	0	0	0	2	1	1	0	0	0	2
	JHARSUGUDA	1	2	0	1	0	0	0	1	0	2	0	0	0	2
	TOTAL : ORISSA	3	4	0	3	0	0	0	3	1	3	0	0	0	4
	TELANGANA														
	ADILABAD	3	77	2	0	0	1	0	3	64	3	0	10	0	77
	KARIMNAGAR	1	63	1	0	0	0	0	1	42	16	0	5	0	63
	KHAMMAM	3	16	1	2	0	0	0	3	2	9	0	5	0	16
	WARANGAL	0	31	0	0	0	0	0	0	24	1	0	6	0	31
	TOTAL : TELANGANA	7	187	4	2	0	1	0	7	132	29	0	26	0	187
	WEST BENGAL														
	BANKURA	1	0	0	1	0	0	0	1	0	0	0	0	0	0
	BURDWAN	7	20	4	2	0	1	0	7	16	0	0	5	0	21
	TOTAL : WEST BENGAL	8	20	4	3	0	1	0	8	16	0	0	5	0	21
	ALL INDIA : COAL	49	299	21	22	0	7	0	50	190	72	0	50	0	312
	2. LIGNITE														
	GUJARAT														
	BHAVANAGAR	1	0	0	1	0	0	0	1	0	0	0	0	0	0
	Kutch	1	0	0	1	0	0	0	1	0	0	0	0	0	0
	SURAT	1	0	0	0	0	1	0	1	0	0	0	1	0	1
	TOTAL : GUJARAT	3	0	0	2	0	1	0	3	0	0	0	1	0	1
	RAJASTHAN														
	BIKANER	1	0	0	1	0	0	0	1	0	0	0	0	0	0
	TOTAL : RAJASTHAN	1	0	0	1	0	0	0	1	0	0	0	0	0	0

**Statement 5.6a (Coninued...)**

Sl. No.	Mineral/State/ District	Number of Accidents		No. of Persons Killed						No. of Persons Seriously Injured					
		Fatal Serious		Below Ground	Opencast			Above Ground	Total	Below Ground	Opencast			Above Ground	Total
					M	M	F	M	F		M	M	F	M	F
		3	4	5	6	7	8	9	10	11	12	13	14	15	16
	TAMILNADU														
	CUDDALORE	1	3	0	1	0	0	0	1	0	1	0	2	0	3
	TOTAL : TAMILNADU	1	3	0	1	0	0	0	1	0	1	0	2	0	3
	ALL INDIA : LIGNITE	5	3	0	4	0	1	0	5	0	1	0	3	0	4
	ALL INDIA : ALL COAL	54	302	21	26	0	8	0	55	190	73	0	53	0	316

Note 1 : M:Male, F:Female

Note 2 : Fatal as well as serious accidents are considered in computing the figures of number of persons seriously injured in this statement.

## STATEMENT NO. 5.6b

### Casualty/serious injury rates in coal mines by state and district during the year 2015

Sl. No.	Mineral/State/ District	Death Rate per Thousand Persons Employed				Serious Injury Rate per Thousand Persons Employed				Rate per Lakh Manshift		Rate per Million Tonnes	
		B. G.	O. C.	A. G.	Overall	B. G.	O. C.	A. G.	Overall	Death	S/Inj.	Death	S/Inj.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. COAL													
CHHATTISGARH													
	BILASPUR	...	...	...	...	2.36	...	...	1.94	...	0.53	...	5.40
	RAIGARH	...	...	...	...	0.80	...	...	0.45	...	0.14	...	0.20
	SURGUJA	...	...	...	...	0.26	...	...	0.14	...	0.04	...	0.09
	KOREA	0.28	23.81	...	0.33	0.41	23.81	...	0.44	0.09	0.12	0.59	0.78
	KORBA	0.30	0.44	...	0.26	0.61	1.32	0.54	0.87	0.08	0.27	0.03	0.10
	SURAJPUR	...	9.17	17.24	2.64	1.69	...	86.21	7.92	0.72	2.17	1.95	5.85
TOTAL : CHHATTISGARH		0.16	0.50	0.12	0.22	0.57	0.87	0.84	0.70	0.07	0.21	0.06	0.19
JHARKHAND													
	DHANBAD	0.11	0.43	...	0.16	0.36	0.60	0.09	0.36	0.05	0.12	0.23	0.51
	HAZARIBAGH	...	...	0.20	0.07	0.45	0.25	0.40	0.37	0.02	0.12	0.06	0.32
	BOKARO	...	0.22	0.28	0.19	0.45	0.22	0.28	0.29	0.06	0.09	0.12	0.17
	RAMGARH	...	...	...	...	2.48	1.47	...	1.48	...	0.46	...	1.76
TOTAL : JHARKHAND		0.09	0.22	0.07	0.12	0.40	0.37	0.15	0.31	0.04	0.10	0.09	0.24
MADHYA PRADESH													
	BETUL	0.26	...	...	0.23	...	...	2.18	0.23	0.07	0.07	0.31	0.31
	CHHINDWARA	0.44	...	...	0.34	0.66	3.28	...	0.69	0.11	0.22	0.56	1.12
	SHAHDOL	0.11	...	...	0.07	0.32	1.57	...	0.29	0.02	0.08	0.09	0.35
	UMARIA	...	...	...	...	0.67	...	...	0.51	...	0.14	...	1.31
	ANUPPUR	0.77	...	...	0.50	3.83	...	...	2.48	0.14	0.68	0.43	2.17
	SINGRAULI	...	1.72	...	1.24	...	5.73	5.92	5.78	0.46	2.14	0.14	0.66
TOTAL : MADHYA PRADESH		0.21	0.32	...	0.18	0.60	1.28	0.44	0.70	0.05	0.21	0.09	0.36
MAHARASHTRA													
	CHANDRAPUR	0.50	0.38	0.34	0.40	0.50	2.63	0.34	0.88	0.12	0.27	0.29	0.65
	YAVATMAL	...	...	...	...	...	1.75	0.55	0.97	...	0.31	...	0.35
TOTAL : MAHARASHTRA		0.23	0.16	0.20	0.20	0.23	1.74	0.30	0.64	0.06	0.20	0.12	0.39
ORISSA													
	ANGUL	...	0.31	...	0.15	0.53	0.15	...	0.15	0.05	0.05	0.03	0.03
	JHARSUGUDA	...	0.36	...	0.15	...	0.72	...	0.31	0.05	0.10	0.02	0.05
TOTAL : ORISSA		...	0.30	...	0.14	0.25	0.30	...	0.19	0.04	0.06	0.02	0.03

## Statement 5.6b (Coninued...)

Sl. No.	Mineral/State/ District	Death Rate per Thousand Persons Employed				Serious Injury Rate per Thousand Persons Employed				Rate per Lakh Manshift		Rate per Million Tonnes	
		B. G.	O. C.	A. G.	Overall	B. G.	O. C.	A. G.	Overall	Death	S/Inj.	Death	S/Inj.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
TELANGANA													
	ADILABAD	0.15	...	0.86	0.17	4.80	0.97	8.64	4.38	0.06	1.49	0.19	4.75
	KARIMNAGAR	0.06	...	...	0.05	2.63	8.44	1.86	3.06	0.02	1.00	0.05	3.19
	KHAMMAM	0.32	0.56	...	0.35	0.63	2.54	2.64	1.86	0.11	0.59	0.11	0.58
	WARANGAL	...	...	...	...	5.51	4.35	14.39	6.20	...	2.04	...	10.77
TOTAL : TELANGANA		0.11	0.23	0.16	0.14	3.58	3.31	4.22	3.61	0.04	1.19	0.11	2.82
WEST BENGAL													
	BANKURA	...	1.78	...	0.63	...	...	...	...	0.20	...	0.45	...
	BURDWAN	0.14	0.42	0.08	0.15	0.54	...	0.38	0.44	0.05	0.14	0.27	0.81
TOTAL : WEST BENGAL		0.13	0.55	0.07	0.16	0.52	...	0.36	0.42	0.05	0.13	0.28	0.73
ALL INDIA : COAL		0.13	0.28	0.08	0.15	1.19	0.90	0.56	0.95	0.05	0.30	0.08	0.49
2. LIGNITE													
GUJARAT													
	BHAVANAGAR	...	5.49	...	2.53	...	...	...	...	0.73	...	0.90	...
	Kutch	...	0.99	...	0.65	...	...	...	...	0.22	...	0.19	...
	SURAT	...	...	21.28	3.01	...	...	21.28	3.01	0.84	0.84	0.61	0.61
TOTAL : GUJARAT		...	0.99	1.05	1.01	...	...	1.05	0.34	0.32	0.11	0.27	0.09
RAJASTHAN													
	BIKANER	...	3.65	...	3.56	...	...	...	...	0.99	...	0.44	...
TOTAL : RAJASTHAN		...	0.98	...	0.72	...	...	...	...	0.21	...	0.11	...
TAMILNADU													
	CUDDALORE	...	0.15	...	0.14	...	0.15	5.46	0.42	0.05	0.14	0.10	0.30
TOTAL : TAMILNADU		...	0.15	...	0.14	...	0.15	5.46	0.42	0.05	0.14	0.10	0.30
ALL INDIA : LIGNITE		...	0.41	0.59	0.44	...	0.10	1.76	0.35	0.14	0.11	0.17	0.13
ALL INDIA : ALL COAL		0.13	0.29	0.09	0.16	1.19	0.82	0.58	0.93	0.05	0.29	0.08	0.47

**STATEMENT NO. 5.7a**  
**Casualty/serious injury rates in coal mines for different companies in 2015**

Company	Number of Accidents		Number of Persons Killed					Number of Persons Seriously Injured						
			Below Ground	Opencast		Above Ground		Total	Below Ground	Opencast		Above Ground		Total
	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
BCCL	7	12	2	5	0	0	0	7	7	7	0	1	0	15
CCL	3	9	0	1	0	2	0	3	3	3	0	3	0	9
ECL	8	21	5	2	0	1	0	8	17	0	0	5	0	22
MCL	3	4	0	3	0	0	0	3	1	3	0	0	0	4
NCL	1	12	0	1	0	0	0	1	0	9	0	4	0	13
SECL	10	33	5	4	0	1	0	10	21	8	0	7	0	36
WCL	7	17	4	1	0	2	0	7	4	12	0	4	0	20
TOTAL : C. I. L.	39	108	16	17	0	6	0	39	53	42	0	24	0	119
GMDC	3	0	0	2	0	1	0	3	0	0	0	1	0	1
NLC	1	3	0	1	0	0	0	1	0	1	0	2	0	3
SCCL	7	187	4	2	0	1	0	7	132	29	0	26	0	187
TISCO	0	3	0	0	0	0	0	0	3	0	0	0	0	3
VSLPL	1	0	0	1	0	0	0	1	0	0	0	0	0	0
SPL	1	0	0	2	0	0	0	2	0	1	0	0	0	1
HINDALCO	0	1	0	0	0	0	0	0	1	0	0	0	0	1
PRISM	1	0	1	0	0	0	0	1	1	0	0	0	0	1
SOVA	1	0	0	1	0	0	0	1	0	0	0	0	0	0
TOTAL : NON-C. I. L.	15	194	5	9	0	2	0	16	137	31	0	29	0	197
TOTAL : ALL INDIA	54	302	21	26	0	8	0	55	190	73	0	53	0	316

## STATEMENT NO. 5.7b

### Casualty/serious injury rates in coal mines for different companies in 2015

Company	Death Rate per Thousand Persons Employed				Serious Injury Rate per Thousand Persons Employed				Rate per Lakh Manshift		Rate per Million Tonnes of Coal	
	B. G.	O. C.	A. G.	Overall	B. G.	O. C.	A. G.	Overall	Death	S/Inj.	Death	S/Inj.
	2	3	4	5	6	7	8	9	10	11	12	13
BCCL	0.10	0.45	...	0.17	0.35	0.62	0.10	0.36	0.05	0.12	0.22	0.46
CCL	...	0.08	0.17	0.10	0.45	0.24	0.26	0.30	0.03	0.09	0.05	0.15
ECL	0.15	0.39	0.07	0.15	0.50	...	0.33	0.41	0.05	0.13	0.19	0.54
MCL	...	0.30	...	0.14	0.25	0.30	...	0.19	0.04	0.06	0.02	0.03
NCL	...	0.09	...	0.05	...	0.84	0.42	0.64	0.02	0.23	0.01	0.16
SECL	0.16	0.52	0.08	0.20	0.68	1.05	0.59	0.72	0.06	0.20	0.07	0.26
WCL	0.24	0.16	0.18	0.21	0.24	1.95	0.36	0.59	0.06	0.18	0.16	0.45
<b>TOTAL : C. I. L.</b>	<b>0.14</b>	<b>0.27</b>	<b>0.08</b>	<b>0.15</b>	<b>0.47</b>	<b>0.66</b>	<b>0.31</b>	<b>0.47</b>	<b>0.05</b>	<b>0.14</b>	<b>0.07</b>	<b>0.23</b>
GMDC	...	1.18	1.30	1.22	...	...	1.30	0.41	0.40	0.13	0.38	0.13
NLC	...	0.14	...	0.14	...	0.14	5.36	0.41	0.05	0.14	0.09	0.26
SCCL	0.11	0.23	0.16	0.14	3.58	3.31	4.22	3.61	0.04	1.19	0.11	2.82
TISCO	...	...	...	...	0.66	...	...	0.55	...	0.18	...	0.53
VSLPL	...	9.90	...	9.90	...	...	...	...	2.75	...	1.31	...
SPL	...	2.88	...	2.70	...	1.44	...	1.35	0.90	0.45	0.14	0.07
HINDALCO	...	...	...	...	0.90	...	...	0.46	...	0.15	...	2.08
PRISM	14.93	...	...	9.43	14.93	...	...	9.43	3.09	3.09	31.45	31.45
SOVA	...	10.87	...	6.67	...	...	...	...	1.85	...	23.53	...
<b>TOTAL : NON-C. I. L.</b>	<b>0.11</b>	<b>0.35</b>	<b>0.14</b>	<b>0.18</b>	<b>2.92</b>	<b>1.22</b>	<b>1.96</b>	<b>2.26</b>	<b>0.06</b>	<b>0.75</b>	<b>0.11</b>	<b>1.37</b>
<b>TOTAL : ALL INDIA</b>	<b>0.13</b>	<b>0.29</b>	<b>0.09</b>	<b>0.16</b>	<b>1.19</b>	<b>0.82</b>	<b>0.58</b>	<b>0.93</b>	<b>0.05</b>	<b>0.29</b>	<b>0.08</b>	<b>0.47</b>

## STATEMENT NO. 5.8

### Number of accidents and casualties/seriously injured persons in 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
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Fall of Roof	4	4	1	9	10	0	0	0	0	0	0	0	0	0	0	4	4	1	9	10
Fall of Sides (Other than Overhangs)	2	2	0	11	11	0	0	0	0	0	0	0	0	0	0	2	2	0	11	11
Fall of Overhangs	2	2	0	0	0	1	1	0	0	0	0	0	0	0	0	3	3	0	0	0
Premature Collapse of Workings/Pillars	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
TOTAL : GROUND MOVEMENT	8	8	1	21	22	1	1	0	0	0	0	0	0	0	0	9	9	1	21	22
Hit by Cages, Skip etc.	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	0	0	0	3	3
TOTAL : TRANSPORTATION MACHINERY (WINDING)	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	0	0	0	3	3
Rope Haulage	3	3	0	27	27	0	0	0	0	0	0	0	0	1	1	3	3	0	28	28
Conveyors	0	0	0	1	1	0	0	0	1	1	0	0	0	2	2	0	0	0	4	4
Dumpers	0	0	0	0	0	11	12	2	12	12	2	2	1	0	0	13	14	3	12	12
Wheeled Trackless (Truck, Tanker, etc.)	0	0	0	1	1	3	3	3	1	1	0	0	0	0	0	3	3	3	2	2
TOTAL : TRANSPORTATION MACHINERY (NON-WINDING)	3	3	0	29	29	14	15	5	14	14	2	2	1	3	3	19	20	6	46	46
Drilling Machines	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	1	0	1	1
Loading Machines	3	3	0	0	0	1	1	0	0	0	0	0	0	0	0	4	4	0	0	0
Other Heavy Earth Moving Machinery	0	0	0	0	0	3	3	0	4	4	1	1	0	3	3	4	4	0	7	7
Other Non-Transportation Machinery	1	1	0	6	6	0	0	0	2	2	1	1	0	2	2	2	2	0	10	10
TOTAL : MACHINERY OTHER THAN TRANSP. MACHINERY	4	4	0	7	7	5	5	0	6	6	2	2	0	5	5	11	11	0	18	18
Solid Blasting Projectiles	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Deep Hole Blasting Projectiles	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3
Misfires/Sockets (While Drilling into)	0	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3



Statement 5.8 (Coninued...)

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
Other Explosive Accidents	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1
<b>TOTAL : EXPLOSIVES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>8</b>	
Overhead Lines	0	0	0	1	1	2	2	0	0	0	1	1	2	0	0	3	3	2	1	1	
Switch Gears, Gate End Boxes, Pommel, etc.	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	
Other Electrical Accidents	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	2	2	
<b>TOTAL : ELECTRICITY</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>3</b>	<b>3</b>	
Other Accidents due to Dust/Gas/Fire	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	
<b>TOTAL : DUST, GAS &amp; OTHER COMBUSTIBLE MATERIAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	
Fall of Person from Height/into Depth	1	1	0	54	54	0	0	0	22	23	2	2	0	11	11	3	3	0	87	88	
Fall of Persons on the Same Level	1	1	0	11	11	0	0	0	5	5	0	0	0	2	2	1	1	0	18	18	
Fall of Objects incl. Rolling Objects	2	2	0	28	28	0	0	0	9	9	0	0	0	9	9	2	2	0	46	46	
Other Accidents due to Falls	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
<b>TOTAL : FALLS (OTHER THAN FALL OF GROUND)</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>95</b>	<b>95</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>36</b>	<b>37</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>22</b>	<b>22</b>	<b>6</b>	<b>6</b>	<b>0</b>	<b>153</b>	<b>154</b>	
Irruption of Water	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	
Flying Pieces(Except due to Explosives)	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	
Drowning in Water	1	1	0	0	0	2	2	0	0	0	0	0	0	0	0	3	3	0	0	0	
Buried in Sands, etc.	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	
Unclassified	0	0	0	26	26	0	0	0	8	8	0	0	0	17	17	0	0	0	51	51	
<b>TOTAL : OTHER CAUSES</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>26</b>	<b>26</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>8</b>	<b>8</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>18</b>	<b>18</b>	<b>5</b>	<b>5</b>	<b>0</b>	<b>52</b>	<b>52</b>	
<b>ALL INDIA : ALL COAL</b>	<b>21</b>	<b>21</b>	<b>1</b>	<b>185</b>	<b>189</b>	<b>25</b>	<b>26</b>	<b>5</b>	<b>67</b>	<b>68</b>	<b>8</b>	<b>8</b>	<b>3</b>	<b>50</b>	<b>50</b>	<b>54</b>	<b>55</b>	<b>9</b>	<b>302</b>	<b>307</b>	

□

## STATEMENT NO. 5.9

### Number of fatal accidents in coal mines by major cause and responsibility during the year 2015

Responsibility / Major Cause Group	1	2	3	4	5	6	7	8	9	Total
Misadventure	-	-	-	-	-	1	-	1	-	2
Management	2	-	-	-	-	-	-	2	1	5
Management & Sub. Sup. Staff (SSS)	4	-	2	2	-	1	-	-	2	11
Management, SSS & Coworker	1	-	1	3	-	1	-	-	-	6
Management, SSS & Deceased	-	-	-	2	-	-	-	-	-	2
Management & Coworker	-	-	4	1	-	-	-	1	-	6
Management, Coworker & Deceased	-	-	1	-	-	-	-	-	-	1
Management & Deceased	-	-	1	-	-	-	-	-	-	1
Subordinate Supervisory Staff (SSS)	1	-	-	-	-	1	-	-	-	2
Sub. Sup. Staff, Coworker & Deceased	-	-	-	1	-	-	-	1	-	2
Coworker	-	-	4	-	-	-	-	-	-	4
Coworker & Deceased	-	-	3	1	-	-	-	-	-	4
Deceased	1	-	3	1	-	-	-	1	2	8
<b>Total</b>	<b>9</b>	<b>0</b>	<b>19</b>	<b>11</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>6</b>	<b>5</b>	<b>54</b>

## STATEMENT NO. 5.10

### Causewise number of fatal accidents in coal mines for different companies in 2015

Cause/Company	BCCL	CCL	ECL	MCL	NCL	NEC	SECL	WCL	GIL	SCCL	IISCO	NLC	TISCO	OTHERS	TOTAL
Fall of Roof	--	--	1	--	--	--	1	--	2	1	--	--	--	1	4
Killed-S/Injured :	--	--	1- 0	--	--	--	1- 0	--	2- 0	1- 0	--	--	--	1- 1	4- 1
Fall of Sides	1	--	1	--	--	--	2	--	4	1	--	--	--	--	5
Killed-S/Injured :	1- 0	--	1- 0	--	--	--	2- 0	--	4- 0	1- 0	--	--	--	--	5- 0
Rope Haulage	--	--	2	--	--	--	--	1	3	--	--	--	--	--	3
Killed-S/Injured :	--	--	2- 0	--	--	--	--	1- 0	3- 0	--	--	--	--	--	3- 0
Dumpers	2	1	1	1	1	--	2	--	8	2	--	--	--	3	13
Killed-S/Injured :	2- 1	1- 0	1- 0	1- 0	1- 0	--	2- 0	--	8- 1	2- 0	--	--	--	4- 2	14- 3
Trucks	--	--	1	--	--	--	--	1	2	--	--	--	--	1	3
Killed-S/Injured :	--	--	1- 0	--	--	--	--	1- 3	2- 3	--	--	--	--	1- 0	3- 3
Other Machinery	1	1	1	2	--	--	3	3	11	--	--	--	--	--	11
Killed-S/Injured :	1- 0	1- 0	1- 0	2- 0	--	--	3- 0	3- 0	11- 0	--	--	--	--	--	11- 0
Fall of Persons	--	1	1	--	--	--	1	1	4	--	--	--	--	--	4
Killed-S/Injured :	--	1- 0	1- 0	--	--	--	1- 0	1- 0	4- 0	--	--	--	--	--	4- 0
Fall of Objects	1	--	--	--	--	--	--	--	1	1	--	--	--	--	2
Killed-S/Injured :	1- 0	--	--	--	--	--	--	--	1- 0	1- 0	--	--	--	--	2- 0
Other Causes	2	--	--	--	--	--	1	1	4	2	--	1	--	2	9
Killed-S/Injured :	2- 0	--	--	--	--	--	1- 2	1- 0	4- 2	2- 0	--	1- 0	--	2- 0	9- 2
Below Ground	2	--	5	--	--	--	5	4	16	4	--	--	--	1	21
Killed-S/Injured :	2- 0	--	5- 0	--	--	--	5- 0	4- 0	16- 0	4- 0	--	--	--	1- 1	21- 1
Opencast	5	1	2	3	1	--	4	1	17	2	--	1	--	5	25
Killed-S/Injured :	5- 1	1- 0	2- 0	3- 0	1- 0	--	4- 0	1- 3	17- 4	2- 0	--	1- 0	--	6- 1	26- 5
Above Ground	--	2	1	--	--	--	1	2	6	1	--	--	--	1	8
Killed-S/Injured :	--	2- 0	1- 0	--	--	--	1- 2	2- 0	6- 2	1- 0	--	--	--	1- 1	8- 3
<b>TOTAL</b>	<b>7</b>	<b>3</b>	<b>8</b>	<b>3</b>	<b>1</b>	<b>--</b>	<b>10</b>	<b>7</b>	<b>39</b>	<b>7</b>	<b>--</b>	<b>1</b>	<b>--</b>	<b>7</b>	<b>54</b>
<b>Killed-S/Injured :</b>	<b>7- 1</b>	<b>3- 0</b>	<b>8- 0</b>	<b>3- 0</b>	<b>1- 0</b>	<b>--</b>	<b>10- 2</b>	<b>7- 3</b>	<b>39- 6</b>	<b>7- 0</b>	<b>--</b>	<b>1- 0</b>	<b>--</b>	<b>8- 3</b>	<b>55- 9</b>

## STATEMENT NO. 5.11

### Causewise number of serious accidents in coal mines for different companies in 2015

Cause/Company	BCCL	CCL	ECL	MCL	NCL	NEC	SECL	WCL	GIL	SCCL	IISCO	NLC	TISCO	OTHERS	TOTAL
Fall of Roof	--	--	1	--	--	--	2	--	3	4	--	--	1	1	9
S/Injured :	--	--	2	--	--	--	2	--	4	4	--	--	1	1	10
Fall of Sides	1	--	1	--	--	--	1	1	4	6	--	--	1	--	11
S/Injured :	1	--	1	--	--	--	1	1	4	6	--	--	1	--	11
Rope Haulage	1	1	1	--	--	--	4	1	8	20	--	--	--	--	28
S/Injured :	1	1	1	--	--	--	4	1	8	20	--	--	--	--	28
Dumpers	1	--	--	1	5	--	2	2	11	1	--	--	--	--	12
S/Injured :	1	--	--	1	5	--	2	2	11	1	--	--	--	--	12
Trucks	--	--	--	--	--	--	--	1	1	1	--	--	--	--	2
S/Injured :	--	--	--	--	--	--	--	1	1	1	--	--	--	--	2
Other Machinery	--	2	3	--	--	--	6	1	12	11	--	2	--	--	25
S/Injured :	--	2	3	--	--	--	6	1	12	11	--	2	--	--	25
Explosives	1	--	--	1	--	--	2	--	4	1	--	--	--	--	5
S/Injured :	3	--	--	1	--	--	3	--	7	1	--	--	--	--	8
Fall of Persons	5	2	8	2	6	--	7	6	36	68	--	1	--	--	105
S/Injured :	5	2	8	2	7	--	7	6	37	68	--	1	--	--	106
Fall of Objects	2	1	2	--	--	--	2	3	10	36	--	--	--	--	46
S/Injured :	2	1	2	--	--	--	2	3	10	36	--	--	--	--	46
Other Causes	1	3	5	--	1	--	7	2	19	39	--	--	1	--	59
S/Injured :	1	3	5	--	1	--	7	2	19	39	--	--	1	--	59
Below Ground	5	3	16	1	--	--	20	4	49	132	--	--	3	1	185
S/Injured :	7	3	17	1	--	--	21	4	53	132	--	--	3	1	189
Opencast	6	3	--	3	8	--	8	9	37	29	--	1	--	--	67
S/Injured :	6	3	--	3	9	--	8	9	38	29	--	1	--	--	68
Above Ground	1	3	5	--	4	--	5	4	22	26	--	2	--	--	50
S/Injured :	1	3	5	--	4	--	5	4	22	26	--	2	--	--	50
<b>TOTAL</b>	<b>12</b>	<b>9</b>	<b>21</b>	<b>4</b>	<b>12</b>	<b>--</b>	<b>33</b>	<b>17</b>	<b>108</b>	<b>187</b>	<b>--</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>302</b>
<b>S/Injured :</b>	<b>14</b>	<b>9</b>	<b>22</b>	<b>4</b>	<b>13</b>	<b>--</b>	<b>34</b>	<b>17</b>	<b>113</b>	<b>187</b>	<b>--</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>307</b>

□  
□□

**STATEMENT NO. 5.12**  
**Regionwise/zonewise number of accidents and resultant casualties/seriously injured persons in coal mines in 2015**

Region / Zone	Fatal Accidents			Serious Accidents	
	2015			2015	
	No. of Accident	Killed	S/Injured	No. of Accident	S/Injured
Dhanbad I	3	3	1	3	3
Dhanbad II	4	4	--	4	4
Dhanbad III	1	1	--	8	10
Koderma	2	2	--	3	3
Central Zone	10	10	1	18	20
Sitarampur I	1	1	--	7	7
Sitarampur II	6	6	--	9	9
Sitarampur III	1	1	--	4	5
Eastern Zone	8	8	--	20	21
Ahmedabad	2	2	--	--	--
Udaipur	1	1	1	--	--
North-Western Zone	3	3	1	--	--
Ajmer	1	1	--	--	--
Varanasi	2	3	1	12	13
Northern Zone	3	4	1	12	13
Hyderabad I	4	4	--	110	110
Hyderabad II	3	3	--	77	77
South-Central Zone	7	7	--	187	187
Bhubaneswar	3	3	--	4	4
Raigarh	1	1	--	1	1
Ranchi	1	1	--	7	7
South-Eastern Zone	5	5	--	12	12
Chennai	1	1	--	3	3
Southern Zone	1	1	--	3	3
Bilaspur	7	7	2	22	22
Jabalpur	2	2	--	11	12
Nagpur I	3	3	1	4	4
Nagpur II	5	5	3	13	13
Western Zone	17	17	6	50	51
ALL INDIA	54	55	9	302	307

## STATEMENT NO. 5.13

### Summary of Findings of Fatal Accidents during the year, 2015

-----  
**Code : 0100      Ground Movement**  
-----

-----  
**Code : 0111      Fall of Roof  
( 4 Deaths)**  
-----

1. Date - 05/03/15      Mine - PRISM COAL MINE  
Time - 15.15      Owner - M/S PRISM CEMENT LIMITED  
Dist. - Chhindwara, State - Madhya Pradesh  
Person(s) Killed :  
1. Jagdish Pawar, Contractor Worker, Male, 34 Years

While a crew of 6 contractor workers were engaged in installation of cross steel girders for support work in an incline roadway in coal of an underground coal mine, suddenly a mass of sandstone roof, measuring about 1.2m x 1.9m x 0.25m (thick) in size, parted from the roof and fell from a height of about 8.5m over two of the contractor workers inflicting serious bodily injuries to which one of them succumbed within an hour.

Had

i) the roof and sides of the working place in the roadway been made and kept secure and supported as required under the provisions of Regulation 102(1) of the Coal Mines Regulations, 1957,

ii) the systematic support plans for the development working of coal seam been framed on the basis of physico-mechanical properties of strata, local geological condition or determination of RMR of the development workings in coal, and the same been enforced before commencement of operation as required under the provisions of Regulation 108 of the coal mines Regulations, 1957,

iii) the work persons not been negligently deployed below the unsecured, high and loose roof thereby not endangering the life or limb in the mine as required under the provisions of Regulation 190 of the Coal Mines Regulations, 1957, and

iv) sufficient supply of required suitable support material been made readily available for use in mines so that the roof could have been made & kept secure in time for complying the provisions of Regulations 102(1) & 108 of the Coal Mines Regulations, 1957 as required under section 18(1) & (4) of the mines Act, 1952 read with Regulation 41(3) of the Coal Mines Regulations, 1957,

this accident could have been averted.

2. Date - 20/06/15      Mine - DAMNI UG MINE  
Time - 5.15      Owner - South Eastern Coalfields Ltd.  
Dist. - Shahdol, State - Madhya Pradesh  
Person(s) Killed :  
1. Horilal Kewat, Blasting Crewman, Male, 35 Years

While a blasting crewman was standing beneath an unsupported ledge of a development face in a belowground coal mine, a piece of carbonaceous shale measuring 1.7m (length) X 0.38m to 0.90m (width) X 0.30m (thick) parted off from a height of 2.4m and fell on him, inflicting serious bodily injuries, which proved fatal instantaneously.

Had temporary support been erected to protect the blasting crew members before allowing them for charging shot holes in the ledge of the roof and no person been deployed under unsupported roof, as required under condition No. 5.2 of the Systematic Support Rules framed and enforced by mine manager at the mine vide letter No. SECL/MANAGER/DAMNI/2015/45 dated 07.04.2015, under Regulation 108 (1) (bb) of the Coal Mines Regulations, 1957,

this accident could have been averted.

3. Date - 25/08/15                      Mine - GODAVARI KHANI NO.1  
Time - 21.45                              Owner - Singareni Collieries Company Ltd.  
Dist. - Karimnagar, State - Telangana  
Person(s) Killed :  
1. Kannuri Rajam, General Mazdoor, Male, 51 Years

While two persons were fixing bamboo mats on a barricade for sandstowing in a depillaring district in underground coal mine, a coal layer measuring about 4.3m (length) x 0.5m (width) x 2.3 (thickness) fell from roof from a height of about 0.9m on one of them causing serious injury to which he succumbed and the other escaped unhurt.

Had the roof of the working place been made secured by proper dressing, before engaging persons to work and the work been done under proper supervision by following Safe Operating Procedure, as stipulated in Regulations 109(8)(a), 102(1), 44(3)(a), 43(1)(e) and 42(1) of the Coal Mines Regulations, 1957

this accident could have been averted.

4. Date - 12/11/15                      Mine - KHAS KAJORA  
Time - 20.45                              Owner - Eastern Coalfields Ltd.  
Dist. - Burdwan, State - West Bengal  
Person(s) Killed :  
1. Ramadhar Bhar, UG Spray Mazdoor, Male, 47 Years

While a SDL operator assisted by two cable man and a spray majdoor was working at an unsupported junction in a depillaring district, a coal roof measuring of 8m (length)x 0.5m(thick) parted off and fell from a height of 4.3m, burying the spray majdoor present at the junction and crushed him to death instantly. The SDL operator and one of the cableman received minor injuries, while the other cableman escaped unhurt

Had

i) the roof of the junction been supported and kept secured as per approved Systematic Support Rules (SSR) and mine was worked with effective compliance with the provisions of SSR as required under Reg. 108(5) of the Coal Mines Regulations, 1957

ii) the working place not been heightened to more than 3.0m, as per the Clause no. 4.I of the permission letter no. 85, dated 16.01.2015 and as required under the Regulations 41 & 42(1) of the Coal Mines Regulations, 1957 read with Section 18(4) of the Mines Act, 1952.

iii) the loading operation not been undertaken in the working place wherein roof coal was taken, till the exposed roof in the vicinity thereof been examined and made safe as required under Regulation 109(8) (b) read with Reg. 43(1) (e) & Reg.44(3) (a) of the Coal Mines Regulations, 1957

this accident could have been averted.

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

5. Date - 28/02/15                      Mine - VENKATESH KHANI NO.7  
Time - 19.30                              Owner - Singareni Collieries Company Ltd.  
    Dist. - Khammam, State - Telangana  
    Person(s) Killed :  
    1. Narayandas Harinath Babu, Shotfirer, Male, 57 Years

While a shotfirer was collecting his cable after blasting in a developement face in underground, a piece of shale measuring about 20cm X 10cm X 7cm fell from side on back of his head from a height of about 3m causing serious injuries, to which he succumbed within few minutes.

Had he not entered a freshly blasted area before carefully examining the roof and sides for ensuring the place safe, thus not negligently endangered his own life, as stipulated in Regulations 176 and 190 of the Coal Mines Regulations, 1957,

this accident could have been averted.

6. Date - 26/11/15                      Mine - CHURCHA WEST  
Time - 12.30                              Owner - South Eastern Coalfields Ltd.  
    Dist. - Korea, State - Chhattisgarh  
    Person(s) Killed :  
    1. Suresh Kr.Singh, Technician, Male, 30 Years

While a contractor employee deployed as technician was about to move away after parking ram car and closing the cap of water cans kept over it in a depillaring panel of an underground coal mine worked by continuous miner, a mass of coal measuring 2.8m long x 1.3m wide x 0.75m thick (max.) fell from the side of the pillar in pieces from a height of about 2.7m over him as a result he fell over the body of ram car causing serious bodily injuries to which he succumbed after one hour and ten minutes on the way to hospital.

Had

the sides of the gallery been made and kept secured by proper dressing and supporting as required under Regulation 102(1) read with Systematic Support Rule framed under Reg. 108 (2) enclosed with



permission letter no. BSP/010566/Reg.100(1)/17/13/3692 dated 04.09.13 issued under Reg. 100(1), Regulations 44(3) (a), 43(1) (e), 42(1) and 41(9) of the Coal Mines Regulations, 1957.

this accident could have been averted.

-----  
**Code : 0113      Fall of Overhangs**  
**( 3 Deaths)**  
-----

7. Date - 24/03/15                      Mine - NCPH/NCPH(R-6)  
Time - 13.00                              Owner - South Eastern Coalfields Ltd.  
    Dist. - korea, State - Chhattisgarh  
    Person(s) Killed :  
    1. Bipro, Support Mistry, Male, 59 Years

While a helper of an Universal Drilling Machine was enquiring from operator the status of shot holes being drilled by the machine in a face of development district of an underground coal mine, suddenly a stone piece measuring about 3.03 m long X 1.03 m high X 0.28 m thick parted from overhanging side and fell over him from a height of about 2.4 m, inflicting serious bodily injuries, to which he succumbed almost instantly. Mining Sirdar standing near by, in an attempt to flee from the side, fell down on the floor and received reportable injuries.

Had

the overhanging side been dressed down properly or supported adequately as required under Regulation 109(6) and Systematic Support Rule framed under Regulation 108(2) of the Coal Mines Regulations, 1957 and modified vide letter no. BSP/4058 dated 08.12.08 read with Regulations 42(1), 43(1) (e), 44(3) (a) and 38(1) of the Coal Mines Regulations, 1957,

this accident could have been averted.

8. Date - 05/08/15                      Mine - ROCP/SOUTH JHARIA  
Time - 12.30                              Owner - Bharat Coking Coal Ltd.  
    Dist. - Dhanbad, State - Jharkhand  
    Person(s) Killed :  
    1. Satyanarayan Bauri, Excavator Opnr., Male, 48 Years

While excavating a coal bench containing fiery loose strata deploying excavator in an opencast coal mine, suddenly overhanging fiery hot materials collapsed, broke the viewing glass of operator's cabin resulted in fiery hot materials engulfing the operator causing serious bodily burn injuries to him which turned fatal after 14 days while being treated at hospital.

Had

the height of the bench containing loose fiery strata under excavation been maintained within the maximum digging height of the excavator so deployed, as required under the condition No. 3.1 of the permission granted under Regulations 100(1), 105(1), 122, 170(1) (A) & 170(1) (B) and relaxation from

the provisions of Regulations 98(1), 98(3), 161(1) & 168(5) of the Coal Mines Regulations, 1957 vide this Directorate's letter no. R-2/010228/P=02/15/379 dated 31.03.2015, and

the bench containing fiery loose strata under excavation been thoroughly treated with pressurized water for quenching of fire and excavator been deployed only after cooling down of the hot strata as required under condition No. 18.3 of the permission granted under Regulations 100(1), 105(1), 122, 170(1) (A) & 170(1) (B) and relaxation from the provisions of Regulations 98(1), 98(3), 161(1) & 168(5) of the Coal Mines Regulations, 1957 vide this Directorate's letter no. R-2/010228/P-02/15/379 dated 31.03.2015,

this accident could have been averted.

9. Date - 19/12/15                      Mine - SHANKARPUR  
Time - 11.30                              Owner - Eastern Coalfields Ltd.  
Dist. - Burdwan, State - West Bengal  
Person(s) Killed :  
1. Chandra Nahak, Dresser, Male, 58 Years

While a person was dressing the unsupported roof at a distance of 3.5m from the face in a development panel of an underground coal mine, a mass of coal measuring 4.2m x 3.7m x0.25m (thickness) parted from the roof and fell down from a height of 2.1m inflicting serious bodily injuries to which he succumbed on the way to the hospital.

Had

effective compliance with the provisions of the Systematic Support Rules, framed by the Manager under Regulation 108 of the Coal Mines Regulations, 1957, been ensured and development not been done in contravention thereof, as required under Regulation 108(5) of the Coal Mines Regulations, 1957,

the accident could have been averted.

-----  
**Code : 0300              Transportation Machinery (Non-Winding)**  
-----

-----  
**Code : 0332              Rope Haulage  
( 3 Deaths)**  
-----

10. Date - 28/06/15                      Mine - KUMARDHUBI  
Time - 10.05                              Owner - Eastern Coalfields Ltd.  
Dist. - Dhanbad, State - Jharkhand  
Person(s) Killed :  
1. Dhananjay Kr, Pai, UG Face Worker, Male, 31 Years

While an UG Face worker was travelling along haulage roadway, he was runover by the moving tubs resulting into fatal injury instantaneously

Had

i) the person not travelled unauthorisedly along the haulage roadway as required under the provisions of Regulation 88(3) of the Coal Mines Regulations, 1957,

ii) an effective system been formulated to prevent persons travelling along haulage roadway thus not negligently omitted to do anything necessary for the safety of workpersons employed in the mine as required under the provisions of Regulation 190 of the Coal Mines Regulations, 1957,

this accident could have been averted.

11. Date - 16/08/15  
Time - 22.45

Mine - KUMARDIHI "A"  
Owner - Eastern Coalfields Ltd.  
Dist. - Burdwan, State - West Bengal  
Person(s) Killed :

1. Alam Mallah, Track Laying Personnel, Male, 52 Years

While a person was travelling along the haulage roadway for the purpose of inspection in an underground coal mine he was hit by a set of moving tub, released by gravity from the immediate rise side junction, and received serious bodily injuries to which he succumbed after 42 days in a hospital.

Had

i) it been ensured that no person remains in a position of danger before releasing set of tubs as required under Regulation 53(8) of the Coal Mines Regulations, 1957, and

ii) a system been provided and established to warn the persons employed in the haulage level and likely to be endangered before releasing set of tubs as required under Regulation (89(2) (a) of the Coal Mines Regulations, 1957,

the accident could have been averted.

12. Date - 03/12/15  
Time - 10.40

Mine - TANDSI 1/2 COLLIERY  
Owner - Western Coalfields Ltd.  
Dist. - Chhindwara, State - Madhya Pradesh  
Person(s) Killed :

1. Keshnath, Clip Man, Male, 54 Years

While a Clip-man was cleaning mud and cutting steps between haulage track lines in an Incline haulage roadway of an underground coal mine, he was hit by a material loaded tub being lowered with a direct rope haulage resulting derailment and tilting of the tub and inflicting instantaneous fatal injuries to him.

Had

Shelter been taken in a safe place/man-hole by the person working in the haulage roadway whenever the direct rope haulage was in motion, as required under Regulation 87(6) (f) of the Coal Mines Regulations, 1957

this accident could have been averted.

-----  
**Code : 0335      Dumpers**  
**( 14 Deaths)**  
-----

13. Date - 01/01/15  
Time - 9.30

Mine - GIDI A  
Owner - Central Coalfields Ltd.  
Dist. - Hazaribagh, State - Jharkhand  
Person(s) Killed :  
1. Puna Raja, E.P.Helper, Male, 38 Years

While an EP helper riding on a motorcycle was negotiating a right angle curve as well as trying to overtake a running dumper on same path within workshop premise, his motorcycle got slipped and toppled in turning. The helper fell down in front of dumper and front right tyre of dumper rolled over him. In this process helper received serious bodily injuries to which he succumbed instantaneously.

Had

i) the motorcycle been not parked in unspecified place and not driven it in HEMM roadway in contravention with Reg. 190 and Reg. 38(3) (b) of CMR 1957.

ii) the dumper been driven more cautiously and with due alert in contravention with condition no. 12(c) (ii) (b) of permission no. RR/P/98(1)&(3) & 168(5)/2185 dated 17/09/2009 and dumper been driven defensively and not overtook another vehicle where vehicle could not be seen clearly in contravention of condition no. 12(c) (ii) (c) of permission no. RP/P/98(1)&(3) & 168(5)/2185 dated 17/9/2009.

iii) dumper been provided with blind spot mirror and rear view mirror to have clear vision while the dumper been driven in blind zone in contravention with Reg. 50(a) of CMR 1957.

this accident could have been averted.

14. Date - 02/01/15  
Time - 13.50

Mine - BHUBANESWARI OPENCASST PROJECT  
Owner - Mahanadi Coalfields Ltd.  
Dist. - Angul, State - Orissa  
Person(s) Killed :  
1. Golekha Bihari Pradhan, Tipper Drive, Male, 46 Years

While a 12-wheeler-tipper was driven hurriedly for spotting and taking load out of turn from almost level 140m wide and 200m long coal face, an idle tipper driver washing his footwear at watery workings coal face was run over by the tipper inflicting instant fatal injury.

Had

i) the tipper not been negligently operated in hurry and with high speed for spotting and taking load out of turn in contravention of Regulations 190 & 38(1) (a) of the Coal Mines Regulations, 1957 read with condition Nos. 17.5.3 & 17.5.9 of the exemption accorded vide DGMS Permission letter No. BDH/CO-13/P-98(1&3)/2013/796 dated 17.04.2013 under Regulation. 98(1&3) of the CMR, 1957;

ii) the getting down from the tipper not been willfully done without having any valid reason in contravention of Regulations 190 & 38(1)(a) of the Coal Mines Regulations, 1957

this accident could have been averted.

15. Date - 12/01/15  
Time - 16.15
- Mine - MOHER & MOHER AMLOHRI EXTENSION OCP  
Owner - M/S SASAN POWER LTD.  
Dist. - Singrauli, State - Madhya Pradesh  
Person(s) Killed :
1. Raj Narayan Prajapati, Diesel Mechan, Male, 36 Years
  2. Sanjeev Kumar Shah, Diesel Mechanic, Male, 21 Years

While a utility vehicle carrying three maintenance personnel was on way to attend breakdown of tractor cable-handler, it was run over by rear right wheel of 240te carrying capacity dumper taking a U turn on a waste/OB bench and proceeding to other working face causing crush injuries to two persons to which they succumbed almost instantaneously on the spot, and causing serious bodily injuries to the third person.

Had the utility vehicle not been allowed to enter the operational area of HEMM/dumpers unless operation of such HEMM/dumpers had been stopped, and a work permit been issued to the maintenance crew under intimation to the supervisor/assistant manager in-charge of operation of dumpers in accordance with code of practice framed for carrying out repair and maintenance in operational area of other HEMM as to ensure that the repair work on the breakdown tractor cable-handler was undertaken in a safe manner, as required by clause 4.3(c), 6.2(d) & 7.1(a) of the Annexure to Directorate's letter No. 29020/12/2011-12/VR (NZ/Moher/1314 dated 24.10.2011 granting relaxations from the provisions of Regulations 98(1) & (3) of the Coal Mines Regulations, 1957,

this accident could have been averted.

16. Date - 07/04/15  
Time - 19.00
- Mine - CHIRIMIRI OC  
Owner - South Eastern Coalfields Ltd.  
Dist. - Korea, State - Chhattisgarh  
Person(s) Killed :
1. Vijay Kumar, Dumper Optr., Male, 57 Years

While a dumper operator was crossing the haul road on a motor cycle during rest hours, an empty 35 tonne dumper going to the workshop dashed the motorcycle from left side and run over the motor cycle and the operator inflicting serious bodily injuries to him to which he succumbed after 1 and 1/4 hrs in the hospital.

Had

i) the dumper been driven carefully and defensively avoiding distractions, thus not negligently endangering the life of the person crossing the haul road as per cond. No. 20(3)(c) of the permission granted under Reg. 100(1), 98(1) & 98(3) of CMR, 1957 vide letter no. 2561 dated 20.07.94 and Reg. 190 read with Reg. 38(1)(a) of CMR, 1957 and

ii) the motorcycle not been driven at high speed while crossing the haul road to follow unauthorized road on the way to his residence during rest interval, thereby not negligently

endangering his own life and safety in contravention of Reg. 190 read with Reg. 38(1)(a) of the CMR, 1957,

this accident could have been averted.

17. Date - 24/04/15                      Mine - UMARSAR LIGNITE MINE  
Time - 14.40                              Owner - Gujarat Mineral Development Corpn. Ltd.  
Dist. - Kutch, State - Gujarat  
Person(s) Killed :  
1. Meghnath Singh, Dumper Operator, Male, 28 Years

While a dumper operator (after attending nature's call) was walking back towards his dumper under OB loading operation in a opencast lignite mine, suddenly he was hit & knocked down on the ground by a reversing dumper; received serious bodily injuries to which he succumbed after one hour in hospital.

Had the dumper not been operated carelessly omitting to ensure safety of the persons working in the vicinity, as required under the provisions of Regulation 190 of the Coal Mines Regulations, 1957;

this accident could have been averted.

18. Date - 10/05/15                      Mine - BONJAMEHARI  
Time - 4.30                              Owner - Eastern Coalfields Ltd.  
Dist. - Burdwan, State - West Bengal  
Person(s) Killed :  
1. Rajiv Turi, Cont. Dumper Optr., Male, 30 Years

While a dumper was unloading overburden at a dump yard in an opencast mine, it toppled and crushed the operator's cabin of another dumper which was also unloading overburden at a close proximity causing death of its operator.

Had

i) Sri Shashikant Kumar not positioned his dumper at a close proximity of another dumper which was also dumping overburden at the dumpyard and usually checked the general area of the tipping in the dumpyard as required under Regulation 190 and condition No. 14.0 read with permission letter No. S-29020/52/2014/P-98/010766/RN(EZ)/381 dated 26.02.15 under Reg. 98(1) & (3) and 100(1) of the Coal Mines Regulations, 1957 and

i) Sri Jogindranath Patar ensured proper placement of dumpers while dumping at the dumpyard as required under Regulation 190 and condition no. 14.0 read with permission letter no. S-29020/52/2014/P-98/010766/RN-2(EZ)/381 dated 26.02.2015 under Reg. 98(1) & (3) and 100(1) of the Coal Mines Regulations, 1957,

this accident could have been averted.

19. Date - 15/06/15  
Time - 1.15

Mine - KUSMUNDA OCP  
Owner - South Eastern Coalfields Ltd.  
Dist. - Korba, State - Chhattisgarh  
Person(s) Killed :  
1. Dinesh Kr. Mishra, Overman, Male, 45 Years

While a loaded dumper was being reversed for unloading overburden at a Dump yard in night shift in an Opencast Coal Mine, an Overman on duty, sleeping at the corner of Dump yard was run over by the rear left wheels of the dumper, to which he succumbed almost instantly.

Had,

i) the overman on duty not slept in the overburden dump, thus not negligently endangered his life as required under Regulations 38(6), 43(1)(a), 43(8) & 190 of Coal Mines Regulations, 1957,

ii) the dumper operator not operated the dumper in reverse unless he has a clear view of the area behind the vehicle, as required under Para 21.3(e) of Annexure-I of Permission granted vide this Directorate's letter No. BSP/1417 dated 31.05.12, under Reg. 98(1) & (3) of the Coal Mines Regulations, 1957.

This accident could have been averted.

20. Date - 29/06/15  
Time - 3.00

Mine - JAWAHAR KHANI OPENCAST  
Owner - Singareni Collieries Company Ltd.  
Dist. - Khammam, State - Telangana  
Person(s) Killed :  
1. P.V.Ramakrishna, Cont. Supervisor, Male, 27 Years

While an empty tipper was taking turn in reversed gear from an haul road of an opencast mine, a Contractor's Supervisor directing the driver of the tipper was pressed by it against bucket of a payloader parked there and received severe neck injury to which he died on way to hospital.

Had

i) The operator not negligently reversed the tipper in a manner likely to endanger the life of his co-worker in the mine, as required under Regulation 190 of the Coal mine Regulations, 1957; and

ii) The contractor's supervisor stood at an elevated ground at the site while directing the tipper operator, thus not negligently omitted to take a safe shelter, as required under Regulation 190 of the Coal Mines Regulations, 1957,

this accident could have been averted.

21. Date - 06/08/15  
Time - 12.20

Mine - LIGNITE PROJECT TADKESHWAR  
Owner - Gujarat Mineral Development Corpn. Ltd.  
Dist. - Surat, State - Gujarat  
Person(s) Killed :  
1. Alkesh Kumar Rathod, Security Guard, Male, 22 Years

While a motorcycle was being driven with a pillion rider, in the wrong lane of the road leading from the mine gate towards the mine office, it collided head-on with a dumper taking turn at a crossing on the road inflicting seriously bodily injuries to both, to which one recovered and was discharged from the hospital after six days treatment, while the other succumbed to his injuries after one hour while on way to the hospital.

Had the security guard not driven the motorcycle on wrong lane of concrete road leading towards the mine office, thus, willfully not endangered his own safety as required under Regulation 190 of the Coal Mines Regulations, 1957,

this accident could have been averted.

22. Date - 23/10/15                      Mine - JEENAGORA  
Time - 15.45                              Owner - Bharat Coking Coal Ltd.  
Dist. - Dhanbad, State - Jharkhand  
Person(s) Killed :  
1. Somar Mahato, Fitter Helper, Male, 58 Years

While a fitter helper was returning from water filling point towards attendance cabin he was run over by rear left wheel of a moving private tipper on a colony road within the leasehold area of an opencast coal mine, inflicting serious injuries to him to which he succumbed about an hour later.

Had

(i) drop gate been provided and caution board been displayed in local language prominently at the entrance of the residential Colony Road to prevent inadvertent entry of heavy vehicles thus not negligently or willfully omitted to do anything necessary for the safety of the mine or the persons employed therein as required under Regulation 190 of the Coal Mines Regulations, 1957, and

(ii) the driver of the tipper not driven the tipper on prohibited colony road inside residential colony thus not negligently or willfully endangering life or limb in the mine, as required under Regulation 190 of the Coal Mines Regulations, 1957,

this accident could have been averted.

23. Date - 30/11/15                      Mine - PRAKASHAM KHANI OPENCAST MINE  
Time - 3.30                                Owner - Singareni Collieries Company Ltd.  
Dist. - Khammam, State - Telangana  
Person(s) Killed :  
1. Katukuri N.Reddy, Tipper Operator, Male, 34 Years

While a tipper was parked in a haul road having mild gradient in an opencast coal mine, its operator was run over by the same tipper when it started moving after minutes; to which he succumbed almost instantly.



Had such circumstance was not created to allow the tipper to move uncontrolled on a gradient by disobeying the Standard Code of Practice and thus not negligently endangered his own life by contravening Regulations 38(1) (a) & 190 of the Coal Mines Regulations, 1957;

this accident could have been averted.

24. Date - 05/12/15  
Time - 19.10

Mine - AMALGAMATED KESHALPUR-WEST MUDIDIH

Owner - Bharat Coking Coal Ltd.

Dist. - Dhanbad, State - Jharkhand

Person(s) Killed :

1. Dilip Kr. Saw, Pay Loader Operator, Male, 41 Years

While a pay loader was parked idle in a coal dump of open cast coal mine, an operator of 60 te capacity left hand side driving dumper seeing it idle, took a decision and turned his coal loaded dumper left side towards the pay loader leaving his previous route to dump the coal, meanwhile pay loader operator took pay loader in reverse towards the dumper, dumper operator could not see the reversing loader and estimate properly the distance between dumper and pay loader thus Right side front tyre of dumper got struck with pay loader and dragged it up to some distance inflicting serious bodily injuries to pay loader operator sitting on its seat to which he succumbed on the way to hospital and by impact of hitting, pay loader helper thrown away and escaped with minor injuries.

Had

i) the Dumper operator not negligently turned the dumper towards the pay loader leaving his pre designated route to dump the coal thereby not endangered pay loader's life,

ii) the site of unloading of coal for dispatch and loading of coal by contractors into tippers by pay loader for dispatch been visited and examined by the ACMs and it been seen that all work by Dumper operator under his charge carried out in accordance with the provisions of the Mines Act, 1952 and the CMR, 1957 and orders made there under,

iii) separate coal stock yards for dumping of coal from mine and dispatch of coal through outsourcing agencies been provided and

iv) Mining Sirdar or any other competent person been appointed at coal dump for thorough supervision of operations related to unloading of coal for dispatch and loading of coal by contractors into tippers by pay loader for dispatch

as required under the provisions of Reg. 38(1) & 190, 42(1) & (2), 36(1) (a) (ii) of the CMR, 1957 and condition no. 16.2 and 16.5 of the permission granted under Reg. 100(1) and relaxation under Reg. 98(1) & (3) of the CMR, 1957 vide this Directorate's letter No. R-1/010179/Perm 23-15/2013 dated 09.11.2015 read with Sections 18(1) & (4) of the Mines Act, 1952.

this accident could have been averted.

25. Date - 19/12/15  
Time - 13.30

Mine - AMLOHRI OCP  
Owner - Northern Coalfields Ltd.  
Dist. - Singrauli, State - Madhya Pradesh  
Person(s) Killed :  
1. Prayag Lal Shah, Welder, Male, 31 Years

While a tipper was being driven out from the parking area, it ran over a welder standing in its proximity, inflicting serious bodily injuries to him, to which he succumbed while on the way to hospital.

Had

i) the tipper been driven carefully and defensively and after ensuring that none was in close proximity, as required by Clause 18.2(b) of Annexure-A of Directorate's letter no. 550 dated 04.03.2015, granting relaxations from the provisions of Regulations 98(1) & (3) of the Coal Mines Regulations, 1957, and,

ii) none had ventured in close proximity of the moving tipper, thus not negligently endangering his own life and safety, as called for by the provisions of Regulation 190 of the Coal Mines Regulations, 1957,

this accident could have been averted.

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

26. Date - 03/04/15  
Time - 9.30

Mine - GOURI EXPANSION AMALGAMATED MINE  
Owner - Western Coalfields Ltd.  
Dist. - Chandrapur, State - Maharashtra  
Person(s) Killed :  
1. Jaykumar Madhukar Khandar, Foreman, Male, 52 Years

While a tipper truck was going down along the haul road at an excessive speed with 16 persons including the driver inside the cabin and on board of the truck along with pump spare parts, the driver lost control of his vehicle, ran over the berm provided to bifurcate the haul road with light motor vehicle road and subsequently toppled causing fatal injury to one person, serious bodily injuries to three persons and reportable injuries to 12 persons.

Had

i) it been ensured that while negotiating down gradient the tipper truck was in low gear so that minimum braking was required and the tipper truck was not driven too fast, as required under clause 14.3.2 (i) & 14.3.2 (ii) of Annexure 'A' to the permission letter no NR-II/010962/Perm 98(1)&(3)/2012/996 dated 02-07-2012 issued under Regulation 98(1)&(3) of the Coal Mines Regulations, 1957 and

ii) it been ensured that persons other than the driver or his helper or other person authorised by the manager, were not riding on the tipping truck, as required under clause 14.2.2(i) & (ii) of



-----  
**Code : 0400      Machinery Other than Transp. Machinery**  
-----

-----  
**Code : 0441      Drilling Machines  
( 1 Death)**  
-----

29. Date - 22/11/15                      Mine - BHARATPUR PROJECT  
Time - 20.15                              Owner - Mahanadi Coalfields Ltd.  
    Dist. - Angul, State - Orissa  
    Person(s) Killed :  
    1. Balram Bauri, Cont. Worker, Male, 27 Years

While drilling with truck mounted drill machine the deceased, was hit and run over by drill machine causing grievous injuries to head, lungs, ribs, stomach and thighs, to which he succumbed instantaneously.

had

i) the driver of truck mounted drill machine thoroughly checked and ensured that no person whose safety is likely to be endangered due to the movement of drilling machine is present in the vicinity, thus not negligently omitting to do anything for the safety of persons in the vicinity as required by the provisions of Regulations 38(1)(a), read with Reg. 190 and exemption granted vide letter no. BBR-010687/BDH/CO-7/P-98(1)&(3)/2014/1256 dated 05.05.2014, under Reg. 98(1)&98(3) of Coal Mines Regulations, 1957.

ii) the worker of the drilling been organized under the supervision of the competent person, thus negligently not omitting to do for safety of person in the vicinity as required by the provisions of Regulations 42(2), 38(1)(a), and exemption granted vide letter no. BBR-010687/BDH/CO-7/P-98(1)&(3)/2014/1256 dated 05.05.2014, under Regulations 98(1)&(3) of Coal Mines Regulations, 1957.

this accident could have been averted.

-----  
**Code : 0443      Loading Machines  
( 4 Deaths)**  
-----

30. Date - 30/01/15                      Mine - BAGDEWA U/G MINE  
Time - 9.10                                Owner - South Eastern Coalfields Ltd.  
    Dist. - Korba, State - Chhattisgarh  
    Person(s) Killed :  
    1. Uday Lal Gabhel, Mechanical Fitter, Male, 46 Years

While a Load Haul Dumper (LHD), engaged in material transportation work for extension of conveyor belt belowground, parked in steep gradient and dangerously close to the workers deployed in a belowground Coal Mines, moved inadvertently forward, pressed one Mechanical Fitter against tail end structure of the conveyor belt inflicting serious bodily injury to which he succumbed during rescue process, other workers escaped unhurt.

Had,

i) proper parking procedure as specified in Code of Practice been followed thus not negligently omitting own safety and safety of others as required under Regulations 38(1) and 190 of the Coal Mines Regulations 1957, and

ii) the LHD not been allowed to be parked over unconsolidated and unsecured ground having steep gradient and dangerously close to the workers deployed in Conveyor belt extension work thus not negligently omitting safety of others as required under Regulation 190 of the Coal Mines Regulations 1957,

this accident could have been averted.

31. Date - 21/06/15                      Mine - TAWA - II MINE  
Time - 11.15                              Owner - Western Coalfields Ltd.  
Dist. - Betul, State - Madhya Pradesh  
Person(s) Killed :  
1. Krishna, LHD Operator, Male, 52 Years

While a LHD operator was operating a LHD machine in a rising gallery of an underground coal mine, he stopped operation of the LHD and got down on the floor without applying parking brake of the LHD. Suddenly the LHD machine rolled back on down slope, hit and pressed him in between rear end of the LHD and side of a coal pillar inflicting instantaneously fatal injuries.

Had

i) the parking brake lever of the LHD been kept in ON position or the brake been applied after stopping operation of the LHD for parking as required under Rule 5.c of Safe Operating Procedures framed as per condition No. 11 of the Approval No. 321/1054/EHQ dated 09.09.92 granted under Regulation 181 of the Coal Mines Regulations, 1957,

ii) the LHD been parked on level ground as required under Rule 5.b of the Safe Operating Procedures framed as per condition no. 11 of the Approval No. 321/1054/EHQ dated 09.09.92 granted under regulation 181 of the Coal Mines Regulations, 1957 and

iii) the bucket of the LHD been kept lowered and raising on the floor after stopping its operation for parking as required under Rule 5.d of the Safe Operating Procedures framed as per condition no. 11 of the Approval No. 321/1054/EHQ dated 09.09.92 granted under Regulation 181 of the Coal Mines Regulations, 1957

this accident could have been averted.

32. Date - 07/08/15                      Mine - DURGAPUR RAYATWARI  
Time - 5.30                                Owner - Western Coalfields Ltd.  
Dist. - Chandrapur, State - Maharashtra  
Person(s) Killed :  
1. Sitaram Vithoba Nikumbe, Cableman, Male, 58 Years

While a Cableman of a Side Discharge Loader machine (SDL) was engaged at rear side of the SDL machine for guiding its trailing cable during its movement, he was hit and ran over by the SDL machine during its reversal near the junction of depillaring panel at a belowground coal mine, thus received serious bodily injuries to which he succumbed after about one hour.

Had

i) The Side Discharge Loader machine (SDL) been reversed after ensuring that no person was present behind it, thus not negligently omitting to ensure the safety of persons employed in the mine as required under Regulation 190 of the Coal Mines Regulations, 1957 and the trailing cable of side Discharge Loader machine (SDL) been handled from a safe distance by the cable man while engaged in handling the trailing cable, thus not negligently endangering his life, in contravention of Regulation 190 of the Coal Mines Regulations, 1957 read with code of practices framed for the purpose.

this accident could have been averted.

33. Date - 26/08/15                      Mine - KUSMUNDA OCP  
Time - 3.25                              Owner - South Eastern Coalfields Ltd.  
Dist. - Korba, State - Chhattisgarh  
Person(s) Killed :  
1. U. S. Bhagel, Contract. Loader Optr, Male, 47 Years

While a pay loader was being reversed near the berm of a coal face edge during cleaning of berm for deployment of a surface miner in an opencast coal mine, the operator lost control loader toppled down to lower bench of about 2.5m in height, inflicting serious injuries due to which he succumbed almost instantly.

Had

i) the pay loader not been reversed near the edge of coal face for cleaning the berm provided along the edge of coal face, thus not negligently endangered his life as required under Regulation 190 of the Coal Mines Regulations, 1957,

ii) the cleaning of berm, along the edge of coal face in surface miner bench done under proper supervision, as required under Clause 9.0 of Annexure-I of the exemption under Reg. 98(1) &(3) of the CMR, 1957 granted vide this Directorate's letter no. BSP/1417 dated 31.05.12.

this accident could have been averted.

-----  
**Code : 0448                      Other Heavy Earth Moving Machinery**  
**( 4 Deaths)**  
-----

34. Date - 05/01/15                      Mine - KARGALI OCP  
Time - 23.30                              Owner - Central Coalfields Ltd.  
Dist. - Bokaro, State - Jharkhand  
Person(s) Killed :  
1. Madhu, Dozer Optr., Male, 59 Years

While dumped debris on a haul road of an opencast Coal mine, was being pushed with a dozer, it climbed on a big boulder and tilted on its front with a jerk, resulting in the operator to fall on the dash board sustaining serious neck injuries to which he succumbed six & half months later.

Had the dozer been operated under supervision of a competent person, as required under Reg. 113 of the Coal Mines Regulations 1957, and adequate lighting, as required under Reg. 154 read with Cir.Legis1/1976, was provided,

this accident could have been averted.

35. Date - 23/02/15                      Mine - GOURI EXPANSION AMALGAMATED MINE  
Time - 11.00                              Owner - Western Coalfields Ltd.  
Dist. - Chandrapur, State - Maharashtra  
Person(s) Killed :  
1. S.S.Aglawe, Auto Electrician, Male, 52 Years

While two Auto-Electricians were attending defect in a Dozer parked in Workshop of a Mechanised Open Cast Coal Mine, Engine of the Dozer got started resulting in rearward movement of Dozer inflicting serious bodily injury to one Auto-Electrician to which he succumbed after five days. Another Auto-Electrician escaped unhurt.

Had

i) adequate precaution been taken, proper procedure been followed, bypassing safety features provided in starting system of the Dozer been not done and the persons not dangerously positioned themselves during repair activities thus not negligently omitting own safety and safety of others as required under Regulations 38(1) (a) and 190 of the CMR 1957 and

ii) it been ensured that persons undertaking repair of Dozer, carried out their duties properly thus not negligently omitting safety of others as required under Regulations 40(2) and 190 of the CMR 1957.

the accident could have been averted.

36. Date - 23/04/15                      Mine - AMGAON OPEN CAST MINE  
Time - 9.30                                Owner - South Eastern Coalfields Ltd.  
Dist. - Surajpur, State - Chhattisgarh  
Person(s) Killed :  
1. Sunder Hembram, Spotter, Male, 20 Years

While a dozer operator was pushing down scattered boulders measuring 0.50m X 0.40m X 0.26m to 2.60m X 0.85m X 0.30m along with small pieces of dozed materials amounting approximately 2 to 3 m<sup>3</sup> with a dozer from top edge of a bench to lower bench, the same materials fell over Spotter (Trip Entry Man) sitting at top of the immediate lower bench hitting and burying him thereat inflicting serious bodily injuries to which he received on the spot.

Had

i) The dozer not been operated when the spotter (trip entry man) was present just below the edge of top bench i.e. within proximity of dozer's operation in the mine and negligently life of a person not ben endangered, in contravention of the provisions of Reg. 38(1)(a) & 190 of the Coal Mines Regulations, 1957,

37. Date - 30/09/15  
Time - 2.00

Mine - SAMLESWARI OCP  
Owner - Mahanadi Coalfields Ltd.  
Dist. - Jharsuguda, State - Orissa  
Person(s) Killed :

1. Somraj Sahu, Shift Bus Driver, Male, 40 Years

While marching a dozer from one overburden bench to another during night hours in an opencast coal mine, a private bus driver sleeping by the side of his bus parked along the active haul road was crushed inflicting fatal injury.

Had,

i) the bus not been parked along active haul road and person not been sleeping along the active haul road, thereby negligently endangering own safety in contravention of Reg. 190 & 38(1)(a) & (6) of the Coal Mines Regulation, 1957 read with condition Nos. 7 & 8 of the Code of Practice/Office Order No. MCL/IBV/SOCP/MGR/14-15/222 dated 08.08.2015,

ii) the parking of bus at improper place instead of ear-marked place been prohibited as required under Regulations 43(1)(a)&(e) & 42(1) of the Coal Mines Regulation, 1957 read with condition Nos. 7 & 8 of Code of Practice/Office Order No. MCLIBV/SOCP MGR/14-15/222 dated 08.08.2015,

this accident could have been averted.

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

38. Date - 29/01/15  
Time - 11.40

Mine - KHOTTADIH  
Owner - Eastern Coalfields Ltd.  
Dist. - Burdwan, State - West Bengal  
Person(s) Killed :

1. Naresh Bouri, Contractor Worker, Male, 41 Years

While a crew of five persons, engaged in measurement of worn out steel structure of feeder belt and chute at the bottom of strata bunker, the chute which itself had become weak and unsafe due to corrosion of welded joints, collapsed burying one of them to death, sustaining reportable injuries to another one and escaping unhurt by rest of three.

Had

i) the chute been strengthened by providing additional supports before undertaking measurement work, as required under Regulation 182 of the Coal Mines Regulations, 1957; and



ii) the vertical supporting members of the chute not been hammered while taking measurements which added to the failure, thereby negligently omitting the safety of persons employed therein, as required under the provisions of Regulation 190 and read with Regulation 40(2) of the Coal Mines Regulations, 1957;

this accident could have been averted.

39. Date - 20/10/15                      Mine - P.B. PROJECT, 1&2 PIT  
Time - 13.30                              Owner - Bharat Coking Coal Ltd.  
Dist. - Dhanbad, State - Jharkhand  
Person(s) Killed :  
1. Anjan Kumar Teli, Pump Operator, Male, 49 Years

While operating a pump in an underground coal mine, one end of a loose wire strand got entangled with the operator and the other end with moving coupling of the pump. The operator received fatal injuries due to fall on the hard object and separation of his head from the body by the wire strand.

Had coupling guard been kept in positioned as required under Reg. 184(2) of the Coal Mines Regulations 1957 and person not been present close to the coupling while the motor was in running conditions thus not negligently or willfully omitted to ensure his own safety in contravention of Reg. 190 of the Coal Mines Regulations 1957 read with Clause No. 3 & 5 of SOP's framed and issued to pump operator,

this accident could have been averted.

-----  
**Code : 0600            Electricity**  
-----

-----  
**Code : 0661            Overhead Lines  
( 3 Deaths)**  
-----

40. Date - 31/01/15                      Mine - AKASHKINARI  
Time - 12.00                              Owner - Bharat Coking Coal Ltd.  
Dist. - Dhanbad, State - Jharkhand  
Person(s) Killed :  
1. Ganga Pd. Sonar, Electrical Helper, Male, 33 Years

While an electrical helper was climbing up on an electric pole to connect the power leads of a 3.3KV field switch to 3.3KV live overhead line, his head inadvertently came in contact with live conductor and was electrocuted.

Had

i) designated competent persons been deployed for the purpose to carry out the job on 3.3KV overhead line, during marching of EKG Shovel, as required under the provisions of Regulation 3(1) read with 29(2) of the Central Electricity Authority Regulations, 2010, and

ii) proper shutdown procedure been followed by isolating power at 3.3KV group main VCB as required under the provisions of Regulation 3(1) read with 29(2), 19(3) and Regulation 12(1) of the Central Electricity Authority Regulations, 2010,

this accident could have been averted.

41. Date - 27/03/15                      Mine - ARDHAGRAM OPENCAS T COAL MINE  
Time - 9.50                              Owner - M/S SOVA ISPAT LTD.  
Dist. - Bankura, State - West Bengal  
Person(s) Killed :  
1. Haridas Das, Helper (Elect.), Male, 28 Years

While a mazdoor was dismantling an electric cable at the top of an R.C.C. pole, he fell down due to its shearing at the bottom and received serious bodily injury to which he died on the way to the hospital.

42. Date - 13/06/15                      Mine - KUMDA 7&8 INCLIE  
Time - 17.30                              Owner - South Eastern Coalfields Ltd.  
Dist. - Surajpur, State - Chhattisgarh  
Person(s) Killed :  
1. Gopal S. Paikra, S B Attendent, Male, 58 Years

While the Colliery Engineer along with two others including Electrical Helper and Switchboard Attendant were measuring insulation Resistance value of lines feeding to an overhead line, without ensuring adequate shutdown procedures, heavy flash over occurred resulting serious burn injuries to all the three persons, the Switchboard Attendant succumbed to death during treatment at Hospital,

Had

Adequate Shutdown measures been ensured as under Regulation 19(1) of Central Electricity Authority (Measures relating to safety and Electric supply) Regulations 2010 read with BIS 5216,

this accident could have been averted.

-----  
**Code : 0663                      Switch Gears, Gate End Boxes, Pommel, etc.**  
**( 1 Death)**  
-----

43. Date - 03/10/15                      Mine - NEYVELI NO 1  
Time - 10.30                              Owner - Neyveli Lignite Corporation Ltd.  
Dist. - Cuddalore, State - Tamilnadu  
Person(s) Killed :  
1. K. Vetrivel Murugan, Contract Worker, Male, 27 Years

While an unskilled contractor worker engaged to carry out vulcanizing work, touched a vulcanizing panel clamp which was charged with 440V power supply due to wrong connection of cable leads at Kiosk unit by a contractor electrician of the vulcanizing crew, he was electrocuted which proved fatal on the way to hospital.

Had

i) the cable leads connected correctly with proper earthing before charging the power as required under the provisions of Regulations 12(1) and 29(1), of Central Electricity Authority (measures relating to safety and electric supply) Regulations 2010;

ii) a healthy flexible cable with suitable cable connector ( plug & socket) issued as required under the provisions of Regulations 12(1), 107(3) and 115(3) of Central Electricity Authority (measures relating to safety and electric supply) Regulations 2010; and,

iii) the work was supervised by an authorized electrical as per clause 12 of contractor tender agreement and as required under the provisions of Regulations 29(1), and 115(3) of Central Electricity Authority (measures relating to safety and electric supply) Regulations 2010.

This accident could have been averted.

-----  
**Code : 0800          Falls (Other than Fall of Ground)**  
-----

-----  
**Code : 0881          Fall of Person from Height/into Depth  
                          ( 3 Deaths)**  
-----

44. Date - 24/01/15

Time - 20.45

Mine - DURGAPUR RAYATWARI

Owner - Western Coalfields Ltd.

Dist. - Chandrapur, State - Maharashtra

Person(s) Killed :

1. Nathu Latari Pal, Stowing Mazdoor, Male, 55 Years

While a person was attempting to clean the pebbles near the mixing chamber of a sand stowing bunker at surface, he slipped and fell down, got choked by running water & sand leading to death due to asphyxia.

Had

i) adequate general lighting arrangements been provided at the sand stowing bunker during working hours where persons have to work, as required under Regulation 151(1)(a) of the Coal Mines Regulations, 1957 and

ii) adequate steps were taken for the safety of persons employed at the sand stowing bunker by preventing them from entering into the mixing chamber while the flushing operations were being carried, as required under Regulation 190 of the Coal Mines Regulations, 1957

this accident could have been averted.

45. Date - 15/05/15 Mine - RAJNAGAR R. O.  
Time - 8.35 Owner - South Eastern Coalfields Ltd.  
Dist. - Anuppur, State - Madhya Pradesh  
Person(s) Killed :  
1. Deolal, Support Mistry, Male, 55 Years

while a support person was drilling a support hole at the junction with a hand held coal drill machine standing on the bucket of SDL lifted to a height of 2.3 mts, he lost his balance and fell down along with the drill machine causing rib fractures and haemorrhage of liver which proved fatal.

Had

the work been supervised properly and been followed the recommended code of practice i.e. the SDL machine was not used as a working/ standing platform in place of a properly designed working platform to work at a height of 2.3 mts thus negligently omitting own safety and safety of others as required under Regulation 38(1)(a) read with Regulation 190 of the CMR, 1957,

this accident could have been averted.

46. Date - 27/08/15 Mine - KARO I  
Time - 23.15 Owner - Central Coalfields Ltd.  
Dist. - Bokaro, State - Jharkhand  
Person(s) Killed :  
1. F J Beck, Security Guard, Male, 59 Years

While a security guard of CISF was walking along the roof of a workshop building of an opencast Coal mine, he slipped and fell down through a height of 3.7m and sustained serious head injuries to which he succumbed on the way to hospital.

-----  
**Code : 0882      Fall of Persons on the Same Level**  
**( 1 Death)**  
-----

47. Date - 19/03/15 Mine - SHYAMSUNDARPUR  
Time - 12.45 Owner - Eastern Coalfields Ltd.  
Dist. - Burdwan, State - West Bengal  
Person(s) Killed :  
1. Nenka Bhuiya, Contractor Worker, Male, 30 Years

While a person was pulling a loaded tub from the cage at the landing level in an underground coal mine, the tub got derailed when it just came out of the cage producing some jerk as a result of which his hand slipped from the tub and he fell down in backward direction hitting back side of his head with bunch of bearing plates and received serious head injuries which proved fatal on the way to the hospital about half an hour of the accident.

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

48. Date - 18/01/15  
Time - 9.45

Mine - RAVINDRA KHANI NEW TECH  
Owner - Singareni Collieries Company Ltd.  
Dist. - Adilabad, State - Telangana  
Person(s) Killed :

1. Itikala Ramanarsaiah, Multi Job Work, Male, 54 Years

While a group of persons were engaged for re-railing of derailed GMT trolley (loaded with hydraulic chock) in tail gate of a shortwall panel in an underground coal mine, suddenly the loaded trolley tilted towards dip side and entrapped one of them under it inflicting serious bodily injuries which proved fatal almost instantly.

Had

safe code of practice been enforced properly for re-railing of derailed GMT trolley loaded with Hydraulic chock, thus not negligently omitting to do what was necessary for the life and safety of persons employed in such operations as was required under Regulations 42(1) & 190 of the Coal Mines Regulations 1957,

this accident could have been averted.

49. Date - 05/09/15  
Time - 17.10

Mine - POOTKEE  
Owner - Bharat Coking Coal Ltd.  
Dist. - Dhanbad, State - Jharkhand  
Person(s) Killed :

1. Dashrath Pandit, Line Mistry, Male, 59 Years

While a cage carrying five persons was being lowered at the beginning of the shift in an underground coal mine, a workman of previous shift present at pit bottom landing came beneath the moving cage inflicting serious bodily injuries to him to which he succumbed about 4.30 hrs. later during transport to the hospital.

Had

i) onsetter not left his working place at the end of the shift unless relieved by a duly appointed substitute in contravention to the provision of Reg. 52(1)(d) of the Coal Mines Regulation, 1957,

ii) the assigned job of the workman been placed under the supervision of competent person in contravention to the provisions of Reg. 113(1) of the Coal Mines Regulations, 1957.

This accident could have been averted.

-----  
**Code : 0900      Other Causes**  
-----

-----  
**Code : 0991      Irruption of Water  
( 1 Death)**  
-----

50. Date - 06/04/15  
Time - 12.40

Mine - SRIRAMPUR NO.3 & 3 A

Owner - Singareni Collieries Company Ltd.

Dist. - Adilabad, State - Telangana

Person(s) Killed :

1. Pesaru Satyanarayana, Mining Sirdar, Male, 51 Years

While a mining sirdar was walking along a dip gallery of a depillaring panel in a coal mine, due to sudden breakage of a ventilation stopping, an amount of about 7000 gallons of accumulated stowing water along with broken bricks, sleepers/rope ladder etc rushed along the dip gallery and hit and buried him, inflicting serious bodily injury to which he died almost on the spot.

had

the drainage of bottom ash stowing water of shrinkage test gallery was made properly to prevent in rush of water due to accumulation and not negligently allowed the work persons at lower level than the stowing site as required under provisions of Regulation 127(2) read with Regulation 190 of the Coal Mines Regulations, 1957,

this accident could have been averted.

-----  
**Code : 0993      Drowning in Water  
( 3 Deaths)**  
-----

51. Date - 01/03/15  
Time - 7.55

Mine - BASANTIMATA

Owner - Bharat Coking Coal Ltd.

Dist. - Dhanbad, State - Jharkhand

Person(s) Killed :

1. Manoranjan Pradhan, Shovel Optr (Con), Male, 26 Years

While a shovel was deployed for working on an interburden bench having thin parting of about 1.65m thick between bench floor and underlying old waterlogged area in an opencast mine, the thin parting suddenly collapsed leading to overturning of the shovel to its left side resulting into operator's cabin submerged into waterlogged galleries, thereby causing death of the shovel operator due to asphyxia.

Had

i) the system of dividing the mine into 4 zones based on the thickness of the parting been strictly enforced in the mine and precautions been taken while extracting the developed pillars in compliance with the condition No. 7.5 and No.18.0 respectively of the permission letter No. 159,

dated 05.02.2015 granted under Reg.100(1), 122, 161(1), 168(5), 170(1A), 170(1B) and relaxation under Reg. 98(1) & 98(3) of the Coal Mines Regulations, 1957,

ii) adequate measures been taken to promote safe practices and to lead active support to all measures intended for furthering the cause of safety in the mine as required under the provisions of Regulation 41A(1)(g) read with condition No.22.3 of the permission letter no. 159, dated 05.02.2015 granted under Reg. 100(1), 122, 161(1), 168(5), 170(1A), 170(1B) and relaxation under Reg. 98(1) & 98(3) of the Coal Mines Regulations, 1957,

iii) the mine workings been inspected by the supervisory staff and carried out their duties in the part of the mine assigned to them by their superior and been ensured that all work was carried out in accordance with the provisions of the Act and of the Regulations, Orders made there under as required under Regulation 42(1) and Regulations 43(1)(d)&(e) of the Coal Mines Regulations, 1957, complying with the condition Nos.7.5 & 18.0 of the permission letter No. 159, dated 05.02.2015 granted under Reg.100(1), 122, 161(1), 168(5), 170(1A), 170(1B) and relaxation under Reg. 98(1) & 98(3) of the Coal Mines Regulations, 1957, and

iv) due diligence been used by the mine management in securing compliance with the condition Nos. 7.5 & 18.0 of the permission letter No. 159, dated 05.02.2015 granted under Reg. 100(1), 122, 161(1), 168(5), 170(1A), 170(1B) and relaxation under Reg.98(1) & 98(3) of the Coal Mines Regulations, 1957, with regard to the provisions of the Mines Act, Regulations, Rules, bye laws and orders made thereunder and been taken reasonable means to see that all operations carried on in connection with the mine are conducted in accordance with the provisions of the Mines Act, 1952 and of the Regulations, rules, bye-laws and orders made thereunder, as required under Section 18(4) and 18(5) of the Mines Act 1952,

the accident could have been averted.

52. Date - 21/06/15  
Time - 14.00

Mine - CHANDA RAYATWARI  
Owner - Western Coalfields Ltd.  
Dist. - Chandrapur, State - Maharashtra  
Person(s) Killed :

1. Sarnath Bapu Dhoble, Engineer, Male, 55 Years

While an engineer went alone at the sump area in general shift, of a belowground mine, he fell into the sump and got drowned and subsequently his body was recovered after about four and half hours.

Had the deceased not gone alone near the underground sump on his own without informing his co-worker or supervisor, thus, endangering his own life in contravention of the provisions of Regulation 190 of the Coal Mines Regulations, 1957 the accident could have been averted.

53. Date - 15/10/15  
Time - 8.30

Mine - SURKHA (NORTH) LIGNITE MINE,  
Owner - Gujarat Mineral Development Corpn. Ltd.  
Dist. - Bhavanagar, State - Gujarat  
Person(s) Killed :

1. Paresh Kr. Samantray, Agent, Male, 42 Years

While an agent-cum-manager of the mine during inspection within barricaded area was standing on a berm provided at the edge of back-filled dump (separating two water-logged areas) at bottom of opencast workings, suddenly, he slipped, fell down into the water (approx.-14m deep), got drowned and died thereat.

Had the person during inspection of opencast workings not entered the barricaded area & climbed over the berm, thus, omitting to ensure his own safety as required under the provisions of Regulation 190 of the Coal Mines Regulations, 1957,

this accident could have been averted.

-----  
**Code : 0994      Buried in Sands, etc.**  
**( 1 Death)**  
-----

54. Date - 24/06/15  
Time - 9.00

Mine - SRIRAMPUR OCP, SRP  
Owner - Singareni Collieries Company Ltd.  
Dist. - Adilabad, State - Telangana  
Person(s) Killed :

1. Merugu Srikanth, Contract Workman, Male, 28 Years

While a group of eight contractor's work persons were cleaning the spilled coal of about 01 m thick and 30m length underneath a belt conveyor of weak and aged concrete gantry in a Coal Handling Plant , a part of concrete floor measuring about 10m (length)\*03m(width) suddenly parted away, one of the contractor's work persons working there, fell down from a height of 10m through the punctured portion on to an already accumulated slush at the ground level, subsequently an amount of about 02 tonnes of slush of coal from conveyor gantry also fell over burying him completely and he died due to injuries & asphyxia, whereas others escaped unhurt.

Had

i) the spilled coal been not allowed to accumulate in large quantity adding dead load to the weak and aged concrete structure in contraventions of the provisions of Regulation 182 of the Coal Mine Regulations, 1957 read with Section 2(c) of the Mines Act, 1952 and

ii) the work persons been not deployed on weak and aged concrete gantry structure negligently omitting to ensure the safety of the work persons in contravention of the provisions of Regulation 190 of the Coal Mines Regulations, 1957 read with Section 18(1)& 18(4) of the Mines Act, 1952, this accident could had been averted.



## STATEMENT NO. 5.14

### Details of major accidents in 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/Injured	
1	2	3	4	5	6
1	31/10/01	Tikkak	4	0	Explosions of damp/coal dust
2	20/10/03	No. 3 Pit	5	3	Fall of Coal in working places
3	01/04/06	Upper Ledo	4	0	Suffocation by gases
4	16/06/08	Nadir Khas	20	0	Explosions of fire-damp
5	21/11/08	North Kustore	7	0	Fall of roof
6	25/11/08	North Kustore	8	0	Fall of roof
7	21/12/08	Kanchka	4	0	Inshaft while ascending
8	12/05/09	Dhobidih	4	0	Fall of roof
9	29/05/09	Sodepur	7	0	Fall of roof
10	05/07/09	Sodepur	5	0	Inshaft (falling)
11	07/02/10	Dishergarh	11	0	Explosion of fire-damp
12	10/03/10	Kendwadih	4	0	Fall of roof
13	15/10/10	Sitalpur	12	0	Fall of roof
14	26/10/10	Murulidih	6	0	Irruption of water
15	26/11/10	Namdang	14	4	Explosion of fire-damp
16	09/11/11	Kendwadih	14	0	Explosion of fire-damp
17	19/04/12	Sripur	4	3	Fall of object in shaft
18	11/07/12	phularitand	21	0	Irruption of water
19	02/03/13	Barkui	6	1	Fall of roof
20	28/06/13	Jotejanake	13	0	Irruption of water
21	07/08/13	Jamadoba	7	0	Irruption of Water
22	08/08/13	Bhatdih	7	0	Irruption of water
23	22/10/13	Chowrasi	27	0	Explosion of fire-damp
24	23/10/13	Sodepur No. 9 & 10 pits	4	0	Inshaft(overhanging)
25	24/06/14	Dhobidih	6	0	Fall of Roof
26	31/08/15	Chanda	10	0	Miscellaneous on Surface
27	04/02/16	Bhowra	24	0	Miscellaneous on Surface
28	20/02/16	Sitalpur	6	0	In Shaft(Ascending/Descending)
29	20/07/16	Dishergarh	14	4	Explosion of Fire-damp
30	09/12/16	Jamuraia	4	0	Fall of Roof
31	18/11/18	Dishergarh	10	4	Explosion of Fire-damp
32	17/05/19	Bhuggutdih	4	1	Fall of Roof
33	25/09/19	Nodhia	7	0	Fall of Roof
34	12/11/19	Khas Jayrampur	6	1	Fall of Roof
35	24/11/19	Kustore South	14	0	In Shaft(Rope/Chain Breaking)
36	30/01/20	Parbelia	4	0	In Shaft while Ascending/Desce
37	11/05/20	Loyabad	4	0	Fall of Roof
38	04/08/20	Namma	8	0	Irruption of Water
39	29/01/21	East Bagdiggi	5	0	Fall of Side
40	20/02/21	Barkui	4	1	Explosives

**Statement 5.14 (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	28/02/21	Amlabad	11	0	Explosion or Fire-damp
42	25/08/21	Seebpore	4	0	Fall of Roof
43	16/09/21	Pandeybera	5	0	Fall of Side
44	09/03/22	Khost	13	3	Explosions
45	29/04/22	Sodepur	8	8	Overwinding
46	05/07/22	Parbelia	4	2	Explosions
47	04/01/23	Parbelia	74	0	Explosion/Ignition of Firedamp
48	25/01/23	Mahakali	8	0	Fall of Side
49	20/02/23	Raniganj	4	1	Fall of Roof
50	26/03/23	Bonbiddin	4	0	Fall of Side
51	14/04/23	Rawanwara	16	1	Fall of Roof
52	01/05/23	Sodepur	9	0	Suffocation of Gases
53	21/06/23	Dhori	7	0	Fall of Side
54	21/12/23	Benahir	5	0	Fall of Roof
55	27/12/23	Jharia Khas	5	0	Fall of Roof
56	28/03/24	Khost	4	0	Fall of Roof
57	05/07/24	Bararee	4	0	Explosives
58	01/11/24	Bagdigi	4	0	Rope/Chain Breaking
59	22/01/25	Raniganj	5	0	Fall of Roof
60	10/09/25	Burra Dhemu	4	0	Shaft (Ascending/Descending)
61	28/01/26	Chanch	5	0	Fall of Roof
62	01/09/26	Bararee	4	0	Fall of Side
63	09/04/28	Mudidih	6	5	Miscellaneous
64	30/10/28	Sripur	4	1	Fall of Roof
65	20/12/28	Bhaskajuri	7	0	Irruption of Water
66	09/04/29	Sripur	4	0	Fall of Roof
67	16/04/29	Sawang	6	3	Explosion of Firedamp
68	20/07/29	Sikdarpur	4	0	Fall of Roof
69	15/10/29	Datla	4	2	Fall of Roof
70	19/11/29	Serampur	5	0	Fall of Roof
71	10/12/29	Lodna	5	1	Fall of Roof
72	24/02/30	Bararee	4	0	Suffocation by Gases
73	08/04/30	Deoli	6	0	Fall of Roof
74	14/10/30	Dishergarh West	6	0	Explosion of Firedamp
75	17/02/31	Nongah	13	3	Explosives
76	24/11/31	Sodepur 9 & 10 Pits	5	1	Fall of Roof
77	09/04/32	Methani	5	2	Explosion/Ignition of Firedamp
78	21/02/34	Porpiapur	6	0	Fall of Roof
79	12/05/34	Seebpur	5	0	Fall of Roof
80	16/07/34	Khas Jharia	6	0	Fall of Roof

**Statement 5.14 (Continued)**

Sl. No.	Date of Accident	Name of Mine	Number of Persons		Cause of Accident
			Killed	S/Injured	
1	2	3	4	5	6
81	16/01/35	Loyabad	11	0	Irruption of Water
82	29/06/35	Bagdigi	19	7	Explosion/Ignition of Firedamp
83	24/07/35	Kurhurbaree	62	14	Explosion/Ignition of Firedamp
84	30/01/36	Loyabad	35	0	Fire/Suffocation by Gases
85	14/07/36	Adjai Second	4	1	Explosion/Ignition of Firedamp
86	13/12/36	Damdot	4	0	Surface Railway/Tramways
87	18/12/36	Poidih	209	0	Explosion/Ignition of Firedamp
88	06/09/38	Dhemo Main	9	0	Fall of Roof
89	05/01/40	Kalithan Gurgaon	4	0	Fall of Roof
90	27/02/40	Manksimula	6	0	Fall of Roof
91	16/04/40	Raneepur	4	1	Explosion/Ignition of Firedamp
92	21/10/40	Bhualbararee	6	5	Fall of Sides
93	04/12/40	Ekra Khas	8	0	Fall of Roof
94	15/12/40	Jitpur	4	0	Fall of Roof
95	28/12/40	Kustore	4	0	Suffocation by Gases
96	24/04/41	Dishergarh West	6	0	Fall of Roof
97	05/05/41	South Bulliari Kendwadih	9	0	Fall of Roof
98	04/08/41	Sodepur 9 & 10 Pits	4	0	Fall of Roof
99	03/12/41	Dhemo Main	4	1	Fall of Sides
100	16/01/42	Kurhurbaree	5	5	Fall of Roof
101	12/02/42	Ghogri-Berkui	4	0	Fall of Roof
102	27/03/42	Seetalpur	4	0	Falling down Shafts
103	06/07/42	Makerwal	14	0	Irruption of Water
104	17/07/42	Pinalgoria	4	0	Irruption of Water
105	27/11/42	Jotejanaki Khas	6	0	Fall of Roof
106	22/02/43	Sodepur 9, 10 & 11 Pits	13	3	Fall of Roof
107	14/04/43	Banksimulla 11 & 12 Pits	5	0	Explosions
108	26/07/43	Ghorawari	7	0	Explosions
109	08/10/43	Jhamuria 7 & 8 Pits	12	1	Sundries Underground
110	04/02/44	Hurriladih	4	1	Fall of Roof
111	10/04/44	Khodo Valley	8	0	Fall of Sides
112	14/06/44	North Brook	4	0	Descending Shaft
113	25/08/44	Bright Jharua	4	0	Fall of Roof
114	07/09/44	Dhemo Main	6	0	Fall of Roof
115	13/03/45	Dhemo Main	4	1	Fall of Sides
116	13/06/45	Banksimula 9 & 10 Pits	8	0	Fall of Sides
117	19/03/46	Begunia	13	0	Explosion/Ignition of Firedamp
118	09/06/46	Malkera-Choitodih	4	0	Overwinding of Shaft
119	04/11/46	Gazlitand	5	0	Fall of Roof
120	20/03/47	Methani	4	1	Fall of Roof

**Statement 5.14 (Continued)**

Sl. No.	Date of Accident	Name of Mine	Number of Persons		Cause of Accident
			Killed	S/Injured	
1	2	3	4	5	6
121	23/03/48	Chapui Khas	5	1	Explosions
122	19/05/48	Jamuria A & B Pits	4	0	Fall of Roof
123	08/10/48	Ekra Khas	6	0	Irruption of Water
124	15/12/48	Parbelia	8	2	Haulage
125	27/12/48	Kargali	4	0	Fall of Sides
126	24/10/49	Jamai Datla No. 2	4	0	Breakage of Rope/Chain
127	17/11/49	New Satgram	6	3	Fall of Roof
128	25/02/50	Rana	4	1	Fall of Roof
129	15/04/50	Bhatdee	4	0	Fall of Roof
130	29/08/50	Parbelia	4	0	Fall of Roof
131	04/10/50	Dhori	7	0	Irruption of Water
132	14/01/51	Chinakuri	4	1	In Shaft (Miscellaneous)
133	28/01/51	Ranipur	9	3	Descending Shaft
134	31/05/51	Methani	7	2	Fall of Roof
135	22/08/51	East Bhalgora	4	0	Fall of Roof
136	22/02/52	Dhemo Main	6	0	Fall of Roof
137	19/05/52	Mithapur	4	1	Fall of Sides
138	17/06/52	South East Baraboni Khas	5	4	Miscellaneous Surface
139	12/07/52	Dhemo Main	12	0	Fall of Roof
140	17/09/52	Bhatdee	5	0	Fall of Roof
141	19/11/52	Pure Chirimiri	7	0	Fall of Roof
142	22/01/53	Sonardih	4	0	Fall of Sides
143	15/05/53	Pure Chirimiri	8	1	Fall of Roof
144	05/07/53	Bhulabararee	4	0	Fall of Roof
145	31/07/53	Bejdih	4	0	Fall of Roof
146	05/08/53	Majri	11	0	Irruption of Water
147	23/08/53	Dhemo Main	6	1	Fall of Roof
148	24/08/53	Chinakuri	6	2	Irruption of Water
149	26/09/53	Jhagrakhand	4	0	Fall of Roof
150	30/09/53	Dhemo Main	4	0	Fall of Roof
151	08/01/54	Swang	7	0	Fall of Roof
152	19/01/54	Handiduah	4	0	Fall of Roof
153	14/03/54	Damra	10	0	Explosion/Ignition of Firedamp
154	02/04/54	Kothagudium No. 3 Incline	5	0	Fall of Roof
155	16/06/54	Monoharbahal	4	0	Fall of Roof
156	11/10/54	Loyabad	4	0	Fall of Roof
157	10/12/54	Newton Chikli	63	0	Irruption of Water
158	02/02/55	Model Dharmaband	8	3	Miscellaneous on Surface
159	05/02/55	Amlabad	52	1	Explosion of Inflammable Gas
160	03/06/55	Pootkee	4	0	Fall of Objects in Shafts

**Statement 5.14 (Continued)**

Sl. No.	Date of Accident	Name of Mine	Number of Persons		Cause of Accident
			Killed	S/Injured	
1	2	3	4	5	6
161	14/07/55	Kalimati	6	0	Fall of Roof
162	09/09/55	Burradhemu	4	0	Fall of Roof
163	08/02/56	Bhulabararee	4	1	Fall of Roof
164	13/06/56	Girimint	4	0	Haulage
165	12/09/56	Lodna	4	0	Irruption of Water
166	26/09/56	Binodicutta	4	0	Irruption of Water
167	26/09/56	Burradhemu	28	0	Irruption of Water
168	19/02/58	Chinakuri 1 & 2 Pits	176	7	Explosions
169	20/02/58	Central Bhowrah	23	0	Irruption of Water
170	09/10/58	North Kujama	8	0	Fall of Roof
171	27/01/59	Saunda II	4	0	Explosion of Inflammable Gas
172	02/03/59	Kurhurbaree	4	0	Outbreak of Fire
173	19/11/59	Sripur 1 & 2 Pits	7	2	Fall of Roof
174	05/01/60	Damua	16	0	Irruption of Water
175	29/05/60	Bachra	5	1	Fall of Roof
176	23/01/61	Jambad Selected	6	0	In Shaft (Miscellaneous)
177	27/02/61	Simlabahal	4	0	Fall of Roof
178	05/03/61	Budroochuck	5	4	Fall of Roof
179	22/04/61	East Kajora	5	1	Fall of Roof
180	06/05/61	Datla West	4	0	Fall of Roof
181	10/06/61	Burragarh	4	0	Fall of Roof
182	08/03/62	Upper Mandra	5	0	Fall of Roof
183	23/03/62	Sarpi Kajora	5	0	Fall of Roof
184	19/07/62	Sitanala	6	1	Fall of Roof
185	24/08/62	South Bulliari	6	0	Fall of Roof
186	15/02/63	Jamuna	6	0	Fall of Sides
187	19/02/63	Jharkhand	4	2	Fall of Sides
188	21/03/63	Jamuria A & B Pits	7	1	Fall of Roof
189	04/06/63	Kargali	8	1	Fall of Sides
190	22/04/65	Kendwadih	6	0	Irruption of Water
191	28/05/65	Dhori	268	9	Explosion of Coal Dust
192	24/07/65	Ena	7	0	Fall of Roof
193	08/11/65	Rajnagar	5	1	Fall of Roof
194	11/01/66	Lower Badjna	5	2	Fall of Roof
195	17/05/66	Katras-Choitodih	8	1	Fall of Roof
196	16/01/67	Gonshadih	4	0	Fall of Roof
197	16/01/67	Laikdih Deep	4	0	Fall of Roof
198	28/09/67	Central Kujama	4	0	Overwinding of Cage
199	11/04/68	West Chirimiri	14	16	Fall of Sides
200	27/09/68	North Salanpur	6	0	Fall of Sides

**Statement 5.14 (Continued)**

Sl. No.	Date of Accident	Name of Mine	Number of Persons		Cause of Accident
			Killed	S/Injured	
1	2	3	4	5	6
201	21/11/69	New Satgram	5	3	Fall of Roof
202	06/09/71	Mudidih	4	1	Fall of Roof
203	24/12/71	Kuya & Kuya Khas	4	0	Fall of Roof
204	18/03/73	Noonodih Jitpur	48	13	Explosion/Ignition of Gas/Dust
205	03/05/73	Bhowra South	4	1	Fall of Roof
206	11/01/74	Handiduha	4	3	Fall of Roof
207	11/03/74	Burhar No. 1	7	0	Fall of Roof
208	16/05/74	Parasea	4	1	Fall of Roof
209	31/10/74	Ranipur	4	1	Explosion/Ignition of Gas/Dust
210	10/01/75	Kalyan Khani No. 1	4	0	Fall of Roof
211	28/02/75	Hessalong	6	0	Fall of Sides
212	19/04/75	Churcha	5	0	Fall of Roof
213	14/05/75	Ara	5	0	Fall of Roof
214	27/07/75	Pannandhro Lignite	4	0	Fall of Sides
215	08/08/75	Kessurgarh	11	1	Fall of Roof
216	18/11/75	Silewara	10	1	Irruption of Water
217	27/12/75	Chasnalla	375	0	Irruption of Water
218	28/01/76	Bellampalli 2 Incline	5	0	Fall of Roof
219	05/04/76	Chasnalla	5	0	Irruption of Water
220	18/07/76	Kalyan Khani No. 5	4	1	Fall of Roof
221	16/09/76	Central Saunda	10	0	Irruption of Water
222	04/10/76	Sudamdih Shaft	43	3	Explosion/Ignition of Gas/Dust
223	31/03/78	Tara	5	2	Fall of Roof
224	17/08/78	Industry	4	0	Irruption of Water
225	31/12/78	Prakasam Khani No. 2	6	3	Fall of Roof
226	22/01/79	Baragolai	16	0	Explosion/Ignition of Gas/Dust
227	09/10/79	Bhanora	5	2	Fall of Roof
228	16/11/79	Bankola	4	3	Fall of Roof
229	09/06/80	Jorekuri Palasthali	4	0	Landslides
230	03/07/80	Gopalichak	4	1	Fall of Roof
231	24/06/81	Jagannath	10	4	Fire
232	16/07/82	Topa	16	4	Fall of Roof
233	14/09/83	Hurriladih	19	0	Inundation
234	18/09/84	Saunda D West	6	0	Explosives
235	09/06/85	Somagudem 1	6	1	Fall of Roof
236	15/09/85	Patherdih	4	1	Fall of Roof
237	14/10/85	Kalyan Khani No. 5	4	3	Fall of Roof
238	27/03/86	Godavari Khani No. 9	7	0	Explosion/Ignition of Gas/Dust
239	09/04/86	Banki	4	0	Fall of Roof
240	20/04/86	Satpura No. 1	4	1	Fall of Roof

**Statement 5.14 (Continued)**

Sl. No.	Date of Accident	Name of Mine	Number of Persons		Cause of Accident
			Killed	S/Injured	
1	2	3	4	5	6
241	26/11/86	Kenduadih	6	0	Fall of Roof
242	25/05/88	North Jhagrakhand	4	0	Fall of Roof
243	18/06/88	Dubeswari	4	0	Fall of Roof
244	30/06/89	South Govindpur	5	2	Fall of Roof
245	13/11/89	Mahabir (R)	6	0	Irruption of Water
246	18/10/90	Dhanpuri Incline	4	1	Fall of Roof
247	19/11/93	Tipong	9	0	Explosion/Ignition of Gas/Dust
248	18/01/94	Mahabir Khani No. 1	4	0	Fall of Roof
249	25/01/94	New Kenda	55	0	Fire
250	05/03/94	Kotma West	6	1	Fall of Roof
251	11/12/94	Bararee/Bhulanbararee	4	0	Other Winding Operation Acc.
252	27/09/95	Gaslitand	64	0	Irruption of Water
253	27/09/95	Katras-Choitodih	4	0	Irruption of Water
254	05/01/96	Kusunda	4	5	Fall of Roof
255	13/11/96	Satgram Incline	4	0	Fall of Roof
256	03/03/97	New Moghla	10	12	Explosion/Ignition of Gas/Dust
257	18/10/97	Sirka U/G	5	0	Fall of Roof
258	09/06/98	Kuju	5	1	Fall of Roof
259	06/07/99	Parascole (West)	5	3	Air Blast
260	06/10/00	Godavari Khani No. IX	5	0	Fall of Roof
261	03/11/00	Dobary	4	1	Fall of Roof
262	24/06/00	Kawdi Open Cast	10	0	Fall of Sides
263	02/02/01	Bagdigi	29	0	Irruption of Water
264	05/03/01	Durgapur Rayatwari	6	0	Fall of Roof
265	25/01/02	Bankola	4	0	Fall of Object
266	26/02/02	Kalyan Khani No. II	5	1	Fall of Roof
267	28/01/03	Murpar U/G	4	1	Fall of Object
268	16/06/03	Godavari Khani No. 7 LEP	17	0	Irruption of Water
269	17/10/03	Godavari Khani No. 8A	10	2	Fall of Roof
270	22/11/05	Busseriya	4	0	Fall of Roof
271	15/06/05	Central Sounda	14	0	Irruption of Water
272	06/09/06	Bhatdee	50	0	Explosion/Ignition of Gas/Dust
273	12/11/06	Venkaresh Khani No. 7	4	2	Fall of Roof
274	30/11/06	Shyamsundarpur	6	0	Fall of Roof
275	11/05/08	Ledo	5	14	Explosion/Ignition of Gas/Dust
276	12/17/08	Jayant	5	0	Landslides
277	06/05/10	Anjan Hill	15	5	Other explosive accident
278	11/11/13	Basantimata	4	2	Fall of Roof

## STATEMENT NO. 5.15

### Particulars of Court of enquiries instituted under the Mines Act to enquire into the accidents in 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	07/08/13	Jamadoba (Inundation)	7	Information not readily available.	
2	08/08/13	Bhatdih (Inundation)	7	Information not readily available.	
3	22/10/13	Chowrasi (Explosion)	27	Information not readily available.	
4	04/02/16	Bhowra (Subsidence)	24	Dy. Commissioner	1. Chief Inspector of Mines 2. T.H.Ward, Mining Engineer
5	20/02/16	Sitalpur (Winding)	6	Collector of Burdwan	1. Chief Inspector of Mines 2. G.C.Lathbury, Mining Engr.
6	20/07/16	Dishergarh (Explosion)	14	Collector of Burdwan	1. Chief Inspector of Mines 2. G.C.Lathbury, Mining Engr.
7	18/11/18	Dishergarh (Explosion)	10	Collector of Burdwan	1. Chief Inspector of Mines 2. T.H.Ward, Mining Engineer
8	24/11/19	Kustore South (Winding)	14	Dy. Commissioner	1. Chief Inspector of Mines 2. A.Wright, Mining Engineer
9	04/01/23	Parbelia (Explosion)	74	Dy. Commissioner	1. Chief Inspector of Mines 2. Colliery Superintendent
10	14/04/23	Rawanwara (Fall of Roof)	16	Dy. Commissioner	1. Chief Inspector of Mines
11	18/01/25	Newton Chikli (Breaking of Rope)	1	Information not readily available.	
12	09/04/28	Mudidih (Subsidence)	6	Addl. Dy. Commissioner	1. Chief Inspector of Mines 2. J.B.Wardlaw, Mining Engr.
13	20/12/28	Bhaskajuri (Inundation)	7	District Magistrate	1. Chief Inspector of Mines 2. J.Mackie, Mining Engineer
14	09/04/29	Sripur (Fall of Roof)	4	District Magistrate	1. Chief Inspector of Mines 2. J.B.Wardlaw, Mining Engr. 3. J.Mackie, Mining Engineer



**Statement 5.15 (continued)**

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
15	14/10/30	Dishergarh West (Explosion)	6	Chief Inspector of Mines	1. Dr. D. Penman, Mining Engr. 2. J. Thomas, Mining Engineer
16	29/06/35	Bagdigi (Explosion)	19	Chief Inspector of Mines	1. Addl. Dy. Commissioner 2. J. B. Wardlaw, Mining Engr.
17	24/07/35	Kurhurbaree (Explosion)	62	Chief Inspector of Mines	1. Dy. Commissioner 2. J. Mackie, Mining Engineer
18	30/01/36	Loyabad (Suffocation by Gases)	35	Commissioner, Chotanagar	1. Inspector of Mines 2. J. Mackie, Mining Engineer 3. B. K. Bose, Mining Engineer
19	18/12/36	Poidih (Explosion)	209	Commissioner, Burdwan Div.	1. Inspector of Mines 2. L. A. Jacobs, Mining Engineer 3. B. K. Bose, Mining Engineer
20	19/03/46	Begunia (Explosion)	13	Commissioner, Burdwan Div.	1. Dy. Chief Insp. of Mines 2. J. K. Dholakai, Mining Engr. 3. A. G. Mackay, Mining Engineer
21	15/05/53	Pure Chirimiri (Fall of Roof)	8	Dy. Commissioner	1. Chief Inspector of Mines 2. R. L. Malviya (Labour) 3. M. S. Dhandha (Management)
22	08/01/54	Swang (Fall of Roof)	7	Dy. Commissioner	1. D. R. Bagrey, Mining Engr. 2. Bindeswari Dubey, M. L. A. 3. Dy. Chief Insp. of Mines
23	10/12/54	Newton Chikli (Inundation)	63	Justice B. R. Sen	1. M. L. Shome, Mining Engineer 2. W. S. Barlingay, M. P.
24	05/02/55	Amlabad (Explosion)	52	Justice B. P. Jamuar	1. M. L. Shome, Mining Engineer 2. N. Das, M. P.
25	26/09/56	Burradhemo (Inundation)	28	Commissioner, Burdwan	1. Chief Inspector of Mines 2. S. C. Samanta, M. P.
26	19/02/58	Chinakuri 1 & 2 Pits (Explosion)	176	Justice S. N. Guha Roy	1. S. C. Samanta, M. P. 2. Dr. J. W. Whitakar
27	20/02/58	Central Bhowrah (Inundation)	23	T. P. Singh, I. A. S., C. A.	1. B. H. Engineer 2. Jai Pal Singh, M. P.

**Statement 5.15 (Continued)**

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
28	28/05/65	Dhori (Explosion)	268	Justice S. K. Das	1. B. H. Engineer 2. Das Gupta, G. S. I.
29	18/03/73	Noonodih Jitpur (Explosion)	48	R. C. Dutt, I. C. S.	1. Kanti Mehta 2. Lalit Burman 3. Prof. G. B. Mishra 4. M. B. Tawadey
30	08/08/75	Kessurgarh (Fall of Roof)	11	R. C. Dutt, I. C. S.	1. Prof. K. V. Subrahmanyam 2. S. L. Chakravarty 3. R. N. Sharma, M. P. 4. Lalit Burman
31	18/11/75	Silewara (Inundation)	10	P. M. Nayak, I. C. S.	1. V. L. Karwande 2. Prof. G. S. Marwaha 3. S. W. Dhabe 4. S. K. Sanyal
32	27/12/75	Chasnalla (Inundation)	375	Justice U. N. Sinha	1. C. Karunakaran 2. G. S. Marwaha 3. Damodar Pandey, M. P.
33	05/04/76	Chasnalla (Inundation)	5	Justice U. N. Sinha	1. C. Karunakaran 2. G. S. Marwaha 3. Damodar Pandey, M. P.
34	16/09/76	Central Saunda (Inundation)	10	N. P. Dube, I. A. S.	1. Prof. S. S. Saluja 2. S. Das Gupta
35	04/10/76	Sudamdih Shaft (Explosion)	43	H. C. Sarin, I. C. S.	1. S. Bagchi 2. Damodar Pandey, M. P.
36	22/01/79	Baragolai (Explosion)	16	T. S. Sankaran	1. S. Dasgupta 2. H. B. Ghose
37	24/06/81	Jagannath (Miscellaneous)	10	K. Ramamurthy	1. Damodar Pandey 2. H. B. Ghose
38	16/07/82	Topa (Fall of Roof)	16	Justice L. K. Pandey	1. S. Dasgupta 2. H. B. Ghose
39	14/09/83	Huririladih (Inundation)	19	Justice C. T. Dighe	1. K. M. Trivedi 2. G. S. Marwaha

**Statement 5.15 (Continued)**

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
40	13/11/89	Mahabir (Irruption of Water)	6	P. C. Hota	1. B. N. Tiwari 2. A. K. Ghosh
41	25/01/94	New Kenda (Ignition of Gas/Dust)	55	Justice S. Ahmed	1. B. N. Tiwari, AITUC 2. Prof. D. P. Singh, BHU, IT
42	27/09/95	a) Gaslitand (Irruption of Water)	64	Justice S. K. Mukherjee	1. Prof. B. K. Mazumdar, ISM 2. Rajender Singh, INTUC
	26/09/95	b) Bera (Irruption of Water)	3		
	26/09/95	c) South Gobindpur (Irruption of Water)	3		
	27/09/95	d) Katras-Choitodih (Irruption of Water)	4		
43	02/02/01	Bagdigi (Irruption of Water)	29	Justice Gurusharan Sharma	1. Prof. Ravindra Nath, BHU 2. Kamalesh Sahay, CCKKS
44	16/06/03	Godavari Khani No. 7 (LEP) (Irruption of Water)	17	Justice Bilal Nazki	1. A. K. Rudra 2. Kamalesh Sahay
45	17/10/03	Godavari Khani NO. 8A (Fall of Roof)	10	Justice Bilal Nazki	1. A. K. Rudra 2. Kamalesh Sahay
46	15/06/05	Central Sounda (Irruption of Water)	14	Dr. D. P. Shenoy	1. Ravindra Sharma 2. Rajendra Pd. Singh
47	06/09/06	Bhatdee (Ignition of Gas/Dust)	50	P. C. Parakh	1. Ravindra Sharma 2. O. P. Lala
48	06/05/10	Anjan Hill (Ignition of Gas/Dust)	15	Justice P. V. Shetty	1. S. K. Dubey 2. S. Kumar

**SECTION – VI**

**MISCELLANEOUS**

**STATEMENT NO. 6.1**  
**EXPORT AND IMPORT OF COAL, COKE AND LIGNITE**  
**(QUANTITY IN TONNES AND VALUE IN '000 Rs.)**

COUNTRY	EXPORT					
	2013-14		2014-15		2015-16	
	Qty.	Value	Qty.	Value	Qty.	Value
1	2	3	4	5	6	7
AFGANISTAN	"	"	-	-	-	-
ALBANIA	"	"	-	-	-	-
ANGOLA	"	"	-	-	-	-
ARGENTINA	"	"	-	-	-	-
AUSTRALIA	"	"	4	8000	-	-
AUSTRIA	"	"	-	-	-	-
BAHARAIN IS			1722	21883627	15	167952
BANGLADESH	1632903	7202718584	544690	769387129	819531	4449500240
BELGIUM	"	"	-	-	1	22899
BENIN	"	"	-	-	-	-
BHUTAN	77783	952746915	10	230370	91721	954521427
BRAZIL	"	"	-	-	-	-
BRUNEI	"	"	-	-	-	-
BURKINA FASO	"	"	-	-	-	-
CAMEROON	"	"	-	-	-	-
CANADA	2	4000	-	-	-	-
CHILE	"	"	-	-	-	-
CHINA P. REP.	"	"	6	73260	33003	322290334
COLOMBIA	"	"	-	-	-	-
COTE D IVOIRE	"	"	-	-	-	-
DENMARK	"	"	-	-	-	-
DOIBOUTI	"	"	-	-	-	-
DOMONIC REP.	"	"	-	-	-	-
EGYPT A R P	"	"	56	1363169	73	1097705
EL SALVADOR	"	"	-	-	-	-
ETHOPIA	"	"	-	-	7	37492
FINLAND	"	"	-	-	-	-
FRANCE	"	"	-	-	-	-
GER.FED.REP.	134	2000696	-	-	3	30928
GHANA	27	727650	76	1654507	-	-
GEORGIA	"	"	-	-	-	-
HONG KONG	"	"	-	-	-	-
HUNGARY	"	"	-	-	-	-
INDONESIA	66	6647182	-	-	4	963297
ITALY	24161	372852802	266	1682508	-	-
IRAN	172	3524754	35000	372497232	64000	649555200
IRAQ	18	998784	-	-	-	-
IRELAND	242	2385515	-	-	-	-
JAPAN	44	1015584	-	-	-	-
JORDAN	391	11497797	260	7835382	202	3271022
KAZAKHSTAN	"	"	-	-	-	-
KENYA	"	"	164	2220648	-	-
KOREA REP.	"	"	0	7020	-	-
KUWAIT	20006	101470191	46	503750	-	-
LEBNON	"	"	-	-	-	-
MALAYSIA	79	2857118	207	3796739	131	3407646

**STATEMENT NO. 6.1(Cont.)**  
**EXPORT AND IMPORT OF COAL, COKE AND LIGNITE**  
(QANTITY IN TONNES AND VALUE IN '000 Rs.)

COUNTRY	EXPORT					
	2013-14		2014-15		2015-16	
	Qty.	Value	Qty.	Value	Qty.	Value
1	2	3	4	5	6	7
MALDOVA	6	50725	-	-	-	-
MAYANMAR	-	-	-	-	-	-
MAURITIUS	-	-	-	-	2	58230
MOROCCO	100	1442214	50	644171	-	-
MOZAMBIQUE	24	370729	-	-	-	-
NAMIBIA	"	"	-	-	-	-
NATURAL ZO	"	"	-	-	-	-
NEPAL	467129	2754619793	539027	3431529938	637278	3699032664
NETHERLAND	101	735417	-	-	-	-
NIGERIA	59	1844789	739	12841541	120	1853115
N.MARIANA IS.	"	"	-	-	-	-
NORWAY	1	7434	-	-	-	-
OMAN	501	11938071	1584	20484987	1145	15839048
PAKISTAN IR	24817	444383541	23558	378502104	4982	80270922
PHILIPPAINES	"	"	-	-	-	-
QATAR	2	23896	10	760408	73	258860
RUSSIA	15	2123596	-	-	-	-
SAUDI ARAB	815	26442386	1126	28387025	1082	23314314
SENEGAL	"	"	-	-	-	-
SINGAPORE	1	11170	-	-	-	-
SLOVENIA	"	"	49	238404	-	-
SOUTH AFRICA	144	3545455	216	5648639	259	7813857
SPAIN	"	"	-	-	-	-
SRI LANKA	923	24531736	638	15875008	494	11733498
SUDAN	"	"	120	1401875	100	1312521
SWITZARLAND	"	"	-	-	-	-
SYRIA	"	"	-	-	-	-
TAIWAN	"	"	-	-	-	-
TANZANIA REP.	8	216779	51	585563	120	2207140
THAILAND	106	2317617	12	1629358	-	-
TOGO	"	"	-	-	-	-
TURKEY	"	"	40	667860	-	-
UGANDA	"	"	-	-	-	-
U.A.E.	91076	464169346	142567	610097467	68334	252868255
U.K.	20	1151325	-	-	695	13265255
U.S.A.	206	8780251	78	3400188	-	-
VIETNAM SOC.REP.	"	"	-	-	-	-
ZAMBIA	7	114404	-	-	-	-
ZIMABABWE	"	"	-	-	-	-
UNSPECIFIED	1776	12307709	-	-	482	2803273
<b>TOTAL</b>	<b>2343865</b>	<b>12422575955</b>	<b>-</b>	<b>-</b>	<b>1723864</b>	<b>10497497102</b>

**STATEMENT NO.6.1 (Cont.)**  
**(QUANTITY IN TONNES AND VALUE IN '000 Rs.)**

COUNTRY	IMPORT					
	2013-14		2014-15		2015-16	
	Qty.	Value	Qty.	Value	Qty.	Value
1	2	3	4	5	6	7
AFGANISTAN	"	"	"	"	40	238580
ARGENTINA			"	"	"	"
AUSTRALIA	34747245	320455933943	47674014	346658076898	49086355	296856076724
AUSTRIA	"	"	"	"	1	191360
BAHRAIN IS	"	"	"	"	17052	68832126
BANGLADESH	1632903	7202718584	"	"	420	4841917
BENIN	-	-	"	"	"	"
BELGIUM	59	1317573	"	"	"	"
BHUTAN	156	777835	"	"	5000	18025000
BOSNIA HARZGOVIN	"	"	"	"	"	"
CANADA	1247222	12247868942	1956653	15201173827	1551683	9329919603
CHILE	926648	3309365422	1728434	5549349855	773004	2173788045
CHINA P. REP.	2236125	35109266595	2046021	25804017965	2636215	23761631012
COLIMBIA	302544	4466493978	104731	1924469259	62875	804981728
COTE D'IVOIRE	"	"	"	"	"	"
CZECH REP.	"	"	"	"	"	"
DENMARK	1	55770	"	"	149	2280263
EGYPT A. REP.	11850	91500438	"	"	"	"
ESTONIA	21	328664	"	"	0	453305
FRANCE	"	"	"	"	"	"
GERMAN F. REP.	17	608842	259	7361630	33	1386771
GHANA	27	727650	"	"	"	"
GUINEA BISSAU	"	"	"	"	"	"
HONGKONG	96	2366822	"	"	"	"
INDONESIA	101898576	413288682468	118215130	451920393034	97513535	320109183411
IRAN	"	"	22	115276	15	115204
IRELAND	125	1101602	41	502974	51	661093
ISRAEL	-	-	"	"	"	"
ITALY	69906	1065141418	39312	590360820	"	"
JAPAN	577516	9671787402	340759	5089918675	175829	1904014217
JORDAN	"	"	"	"	"	"
KENYA	"	"	"	"	"	"
KOREA REP.	31758	527832816	"	"	"	"
KYRGHYZSTAN	"	"	"	"	"	"
LATVIA	3977	55108827	4528	66017558	8206	90375620
LITHUANIA	143	2797720	66	1172907	497	8834790
MALTA	"	"	"	"	"	"
MALYESIA	55109	200976485	11500	60891619	"	"
MAURITIUS	"	"	"	"	8	107730

## STATEMENT NO.6.1 (Cont.)

(QUANTITY IN TONNES AND VALUE IN '000 Rs.)

COUNTRY	IMPORT					
	2013-14		2014-15		2015-16	
	Qty.	Value	Qty.	Value	Qty.	Value
1	2	3	4	5	6	7
MEXICO	"	"	"	"	"	"
MONGOLIA	"	"	"	"	"	"
MOROCCO	"	"	"	"	"	"
MOZAMBIQUE	1498624	11862670897	1978766	13358912112	2779177	14217598483
MYANMAR	"	"	"	"	"	"
NEPAL	"	"	"	"	"	"
NETHERLAND	57	3739480	"	"	128	2730194
NEWZELAND	1131811	10729310529	1025416	7896790109	680552	4375851622
NIGERIA	"	"	"	"	"	"
OMAN	"	"	"	"	156239	1215903651
PAKISTAN IR	22960	202866964	"	"	"	"
PHILIPPINES	"	"	"	"	"	"
POLAND	170037	3097279708	98000	1336722175	353486	4234041035
PORTUGAL	"	"	"	"	"	"
QUATAR	"	"	"	"	"	"
RUSSIA	879730	8318754092	1465341	10429140391	3897365	21103910455
SAUDI ARAB	"	"	"	"	10440	35890323
SINGAPORE	"	"	"	"	20100	47707350
SPAIN	500	13427190	"	"	109188	703285979
SOUTH AFRICA	20616630	111281487615	30730729	152636452479	36900853	142115520326
SRI LANKA	"	"	"	"	"	"
ST LUCIA	"	"	"	"	"	"
SWEDEN	"	"	"	"	"	"
SWETZERLAND	"	"	26000	110589500	"	"
TAIWAN	"	"	"	"	"	"
TAJIKISTAN	"	"	"	"	"	"
TANZANIA REP	-	-	"	"	"	"
THAILAND	"	"	"	"	76	2169950
TURKEY	69	1208512	"	"	"	"
U.A.E.	"	"	12510	167010034	12462	93512308
U.K.	2236	62089388	3092	88497972	7776	99036702
UKRAINE	895870	12412424601	506662	6212600022	55604	344909761
U.S.A.	3651073	32074881518	4270273	30011268738	5814989	32404430902
VIETNAM SOC.REP.	49898	747019788	32678	529207193	34346	462755165
VENEZUELA	133	2856329	29135	260809350	"	"
UNSPECIFIED	100	1097579	2967011	12537835491	4237671	15999035801
ZIMBABWE	"	"	"	"	"	"
TOTAL	172661752	998513873986	215267083	1088449657863	206901420	892594228506



© भारत सरकार  
नियंत्रक प्रकाशन

PCIM 25-2015(Vol.I)( Coal)  
125-2018 (DSK-III)

# STATISTICS OF MINES IN INDIA VOLUME – I (COAL)

Price {  
Inland: ₹ 550.00  
Foreign: £ 7.90, 12.10