

**35th MEETING OF THE STANDING COMMITTEE ON
SAFETY IN COAL MINES**

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Agenda Item No. I

In Memoriam

In memory of all those who laid down their lives in furtherance of coal mining in the country since last meeting of the Committee.

II: Confirmation of the minutes of 34th meeting

ITEM NO. II

Confirmation of the minutes of 34th meeting of Standing Committee on Safety in Coal Mines held on 23.12.2010 at New Delhi.

II: Confirmation of the minutes of 34th meeting

No. 22022/5/2010-CRC-II
Government of India
Ministry of Coal

Shastri Bhavan, New Delhi
Dated 17th March 2011

OFFICE MEMORANDUM

Subject: Minutes of 34th meeting of Standing Committee on Safety in Coal Mines held on 23.12.2010 at New Delhi

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The undersigned is directed to forward the minutes of the 34th meeting of the Standing Committee on Safety in Coal Mines held on 23-12-2010 under the Chairmanship of Hon'ble MoS (IC) for Coal and Statistics & Programme Implementation (Now Minister of Coal) in New Delhi for information and necessary. Copy of the above minutes has also been put on the website of this Ministry i.e. <http://coal.nic.in>.

It is requested that ATR on the minutes may please be furnished by 30th April 2011 to enable to prepare agenda papers for next (35th) meeting of the Committee likely to be held in June 2011.

Encl: As above

Sd/-
(Hukam Chand)
Section Officer (CRC-II)
Tele: 23382296

To

All the members of the Standing Committee on Safety in Coal Mines (**As per distribution list**)

Copy to:

1. PS to Hon'ble Minister of Coal
2. PS to Hon'ble Minister of State for Coal
3. Sr. PPS to Secretary (Coal)
4. PPS to Special Secretary(Coal)
5. PS to Adviser (Project)
6. PS to Director (Technical)

Copy alongwith copy of minutes to:

Technical Director, NIC, Ministry of Coal with a request to put the minutes on the website of this Ministry.

.....2/-

1. Secretary, Ministry of Labour & Employment, Shram Shakti Bhawan, New Delhi.
2. Shri Anup Chandra Pandey, Joint Secretary, Ministry of Labour & Employment, Shram Shakti Bhavan, New Delhi.
3. The Chairman, Coal India Ltd., 10-Netaji Subhas Road, Kolkata.
4. The Chairman/Managing Director, Neyveli Lignite Corpn, P.O.Neyveli, Tamilnadu.
5. The Chairman/Managing Director, Bharat Coking Coal Ltd., Koyla Bhavan, Koyla Nagar, Dhanbad (Jharkhand)
6. The Chairman/Managing Director, Central Coalfields Ltd., Dharbhanga House, Ranchi(Jharkhand)
7. The Chairman/Managing Director, Eastern Coalfields Ltd., Sanctoria, P.O.Dishergarh, Distt Burdwan (West Bengal)
8. The Chairman/Managing Director, Mahanadi Coalfield Ltd., Sambalpur, (Orissa)
9. The Chairman/Managing Director, Northern Coalfields Ltd., Singrauli, P.O. Singrauli Collieries, Distt. Sidhi (M.P.)
10. The Chairman/Managing Director, South Eastern Coalfields Ltd., P.B. 60, Seepat Road, Bilalpur (M.P.)
11. The Chairman/Managing Director, Western Coalfields Ltd., Coal Estate, Civil Lines, Nagpur.
12. Director (Personnel), Coal India Ltd., 10-Netaji Subhas Road, Kolkata
13. Director (Technical), Coal India Ltd., Netaji Subhas Road, Kolkata
14. Executive Director(S&R), Coal India Ltd., 10-Netaji Subhas Road, Kolkata.
15. The Chairman/Managing Director, Singareni Collieries Company Ltd., Kothagudem Collieries, Khamam Dist., (A.P.)-507107 (Dir (P&P) Fax No. 08744- 245293) (Ph: 08744-242602, 242382)
16. The Chairman / Managing Director, Central Mine Planning and Design Institute, Gondwana Place Kanke Road, Ranchi (Jharkhand) (Fax No. 0651-2231447, 2232633) (Ph:0651-2231850, 2231851, 2231852)
17. The Director, Central Mining Research Institute, Berwa Road, Dhanbad (Jharkhand)(Fax No.0326-2202429) (Ph: 0326-2202326, 220,3043, 2203070, 2203090, 2203010)
18. The Director General of Mines Safety, Directorate General of Mines Safety, Dhanbad (Jharkhand) (Fax No. 0326-2-221000) (Ph: 0326-2221027)
19. The General Manager, Tata Steel Ltd., Jharia Collieries, Jamadoba-828112, Dhanbad (Jharkhand) (Jamadoba Fax No. 0326-2320268, Jharia Fax No.0326-23381247, Delhi Fax: 23326265), (Jamadoba Ph. 0326-2320263, 2320265, 2320267, (Delhi Ph:23327072-76, 655440000-03))
20. The General Manager, I/C (Collieries), Steel Authority of India, IISCO Steel Plant, Colliery Complex, Chasnala Colliery, P.O. Chasnala, Dist. Dhanbad-828135 (Jharkhand) (Chasnala Fax No.0326-2381681, Delhi Fax not there) (Chasnala Ph.0326-2381707, 2381708)
21. Coal Supdt. & Agent, Damodar Valley Corporation, Bermo Mines, P.O. Bermo, Dist. Bokaro, PIN-829104 (Jharkhand) (Bermo Fax .not available, Kolkata Fax: 033-23351937) (Bermo Phone 06549-220245, Kolkata Ph:)
22. General Manager, Bengal EMTA Coal Mines Ltd., 6, Poorvi Marg, 3rd Floor, Vasant Vihar, New Delhi.
23. Managing Director, Jharkhand State Mineral Development Corporation, Khanij Nigam Bhavan, Doranda, Ranchi (Jharkhand) (Fax No.0651-2491916) (Ph: 0651-2491841, 2491842, 2491807, 2491932 (Ranchi), 24911025,2490767)
24. Managing Director, Gujarat Mineral Development Corporation, Khanij Bhavan, Off 132 Ft Ring Road, Nr. University Ground, Vastrapur,, Ahmedabad - 380052 (Fax No. 079-27911540) (Ph: 079-27913200, 27913501, 27911340, 27911680, Direct: 27912747)
25. Chief of Internal Safety, Rajasthan State Mines & Mineral Ltd., SBU & PC LIMESTONE, 8, West Patel Nagar, Circuit House Road, Jodhpur- 342011(Rajasthan) (Fax No. 0291-2511029) (Ph: 0291 - 2516199, 2511031, 2515528)
26. General Manager,(Mining), Integrated Coal Mining Limited, 6th Church Lane (1st Floor), Kolkata-700 001(Fax No. 033-22109356) (Ph: 033-22109358-62 five lines)

27. General Manager (Mines), Gujarat Industries Power Co. Ltd., P.O. Naini Naroli, Taluka Mangrol, Distt. Surat-394110(Gujarat) (Fax No.02629-261073,261074, 261080) (Ph:02629-261063,261072)
28. Executive Director (Raw Material), Jindal Steel & Power Ltd., Jindal Centre, 12 Bhikaiji Cama Place, New Delhi – 110 066.
29. Shri Rejendra Prasad Singh, Ex. M.L.A, President, Indian National Mine Workers Federation, (INTUC) C/o Dhori Colliery, P.O. Bermo. Distt, Bokaro, (Jharkhand) - 825102 (Fax No. Not available) (Ph: 06549-2-20371, 20381 (Bermo), 0651-2-317621 Rancho Office, 440015 Ranchi Residence).
30. Shri S. Q. Zama, General Secretary, Indian National Mines Workers Federation (INTUC) C/o Rashtriya Koyla Mazdoor Sangh, Plot No. 604, Giripeth Post Office, Nagpur-440010 (Fax No. 0712-2540282) (Ph: 0712-2-522132 (O), 2510355(R), 0712-2-3747767, 2-3747768, 2-3360550)
31. Shri Ramendra Kumar, Secretary, Indian Mine Workers Federation, P.O.Bhurkunda Colliery, Distt. Hazaribagh (Jharkhand) - 829135 (Fax No. not there (Ph: 06553-2-89243(R), 2-89204(O))
32. Shri A.C.Patra, General Secretary, Orissa Coal Mines Federation, P.O.Bera Colliery-759103, Distt. Angul, (Orissa) (Angul Fax No. not there, Delhi Fax No. 2-3411037, Dera Colliery Fax No. not available) (Dera Ph: 06760-2-40048(O), 06760-2-40130(R), Delhi Ph: 2-3413519)
33. Shri S.K.Pandey, General Secretary, Akhil Bhartiya Khadan Mazdoor Sangh (Bhartiya Mazdoor Sangh), Qtr No. I-C/107, Post-Bisrampur Colliery, Distt. Sarguja-497226 (Chhattisgarh)
34. Shri Manas Kumar Mukherjee, General Secretary, Dankuni Coal Complex Employees Union, P. O-DCC Township, Dist.- Hoogly, Pin: 712310 (Fax No. 033-26591721)
35. Shri Krishna Chakraborty, All India President, United Trade Union Centre of L / S, 77/2/1, Lenin Sarani, Kolkata-700013 (Fax No. 033-2-2467754, 22465114) Ph: 033-2-449085, 442234)
36. Dr. V.P. Sinha, President, Indian Mine Managers' Association, Bungalow No. 3, Beldih Lake, Northern Town, Jamshedpur – 831 001 (Fax: 033-22427678, 23577656) (Ph: 033-24637773) (E-mail: vinodpsinha@gmail.com)
37. Shri Shukdev Narayan, President, CMOAI (Apex) BCCL, Kusunda Area, P.O.Kusunda- 828116, Distt. Dhanbad (Jharkhand) (Fax No. 0326-2209264) (Ph: 0326-2-307839 (O), 2-203004 (R), 0326-2332620 (Office) 9431-20558-Mobile)

Minutes of the 34th meeting of the Standing Committee on Safety in coal mines held on 23-12-2010 in New Delhi under the chairmanship of Shri Sriprakash Jaiswal, Hon'ble Minister of State (IC) for Coal & SPI.

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The list of participants is given at **Annexure**.

2. Hon'ble MoS initiated the Committee meeting by first welcoming the participants. Hon'ble MoS (Coal) thereafter requested the participants to observe one minute silence in the memory of all those who had laid down their lives in the cause of the coal industry, since the last meeting of the Standing Committee on Safety in Coal Mines.

3. In his opening address, Hon'ble MoS (Coal) which highlighting the critical role of coal in supporting the country's energy plans, expressed also his grave concern over the rising trend of accidents and fatalities in coal mines particularly accidents occurring due to movement of dumpers in open cast mines which were totally avoidable. He mentioned the unfortunate accident at Anjan Hills colliery due to the coal dust explosion, which resulted in 14 fatalities. He stated that management of coal companies must take all the measures to contain such accidents. Thereafter, he directed CMD, CIL to inform the Committee about the status of safety in the mines of CIL.

4. CMD, CIL stated that accidents like, the one at Anjan Hills Colliery, which was a degree-I gassy mine and considered to be a safe mine, was a freak accident, the repetition of which needs to be avoided with proper steps being taken by the coal companies. The enquiry committee constituted to find out the reasons have submitted an interim report and indicated that full information and examination can be done only after getting access into the mine after neutralizing the heat and other obnoxious gases in the mine. Referring to the observations of MoS (Coal) regarding the rise in accidents in open cast mines due to trucks & dumpers, he mentioned about various measures undertaken in mitigating these accidents through training of drivers including contractors' drivers for safe driving and by setting up of simulators. Switching over to conveyor belt transport in place of truck transport was being considered wherever was found feasible. Regarding fire/explosion accidents, action has been initiated for sectionalisation of workings in underground mines by constructing explosion proof stoppings and ventilation stoppings for providing adequate ventilation to the workings. Arrangements are also being made for fighting the fires through drilling boreholes from surface and injecting inert material including flushing of nitrogen through procurement of nitrogen plants. CIL has trained 20 officers at SIMTARS, Australia in underground mines safety matters. Further, CIL is also organising training programmes for their officials in association with NIT Rourkela in quality and safety.

5. He spoke about the Safety Bulletin, which is being published quarterly to share knowledge and application of innovative ideas in the field to promote safety and productivity. He further mentioned that CIL intends to bring down the accidents and fatalities by 50% of the current year level with all possible efforts, for which the cooperation of all concerned is important. In this regard, he further mentioned about the steps being taken by BCCL management through random inspections by Directors and Safety Board Members in night shifts to bring about alertness amongst the officials and improve the safety record.

6. Subsequently the following agenda items were deliberated.

Confirmation of Minutes of the 33rd meeting

7. The minutes of the 33rd meeting held on 25th March, 2010 as circulated vide O.M. dated 5th July, 2010 were adopted by the members.

ATR on recommendations of 33rd meeting

8. Action taken on the recommendations of the previous meeting was deliberated in detail.

(i) **Amendment in Coal Mines Regulation (CMR)** - Shri S.Q. Zama, General Secretary, Indian National Mine Workers Federation (INTUC) expressed his dissatisfaction over the lack of regulation exclusively for opencast mining though more than 85% of the production in the country is from open cast mines. Director General of Mines Safety informed that the proposed amendment of draft CMR contains a comprehensive chapter on opencast mining covering safe operating procedures. Shri Zama stated that there has been inordinate delay in the matter and that it should be expedited.

(Action : MoL&E)

Roof Bolting

9. Shri S.K. Pandey, representative of BMS and Shri S.Q. Zama, representative of INMWF (INTUC) expressed their concern regarding the delay in procurement of roof bolting machines particularly in CCL as committed in the previous meeting. CMD, CCL responded saying that the tender floated earlier for procurement of these machines had to be cancelled due to some unavoidable circumstances and retendering took place in October 2010 and the process is being expedited for procurement.

(Action : CCL)

Cement Capsule

10. On the suggestion of Shri S.Q. Zama for institutionalizing manufacture of cement capsules, CMD, CIL mentioned that cement capsules are required in large quantities in widely scattered mines and therefore it cannot be manufactured / supplied through a single source. However, quantity wise it is already institutionalized. Wherever it is not feasible departmentally, it is being procured through outsourcing after ensuring the quality of the same as per the specifications of the DGMS.

(Action : Coal Companies)

Deployment of Contractor's Workers

11. Shri Ramender Kumar, representative of IMWF (AITUC) and Shri S.K. Pandey, representative of BMS expressed their dissatisfaction about the information provided in the agenda note on the hours of work and payment of minimum wages to the contractors' workers. Shri Mukherjee, representative of CITU, informed that hours of work and minimum wages are different at different places. Shri S.Q. Zama added that even information on how many contractors' workers are working is not available. CMD, CIL agreed that information about contractors' workers should be reliable and that the number of workers and their payment of minimum wage should be certified by the Statutory Authority/Auditor.

11(i) Shri S.Q. Zama, suggested that the payment of compensation as announced in case of Anjan Hill Colliery accident to the contractor workers should also be extended to contractor workers and dependents of contractors' workers deployed in other mines of CIL as well.

11(ii) Shri Ramender Kumar suggested that DGMS as the authority for implementation of the provisions of Mines Act, should certify the working hours of contractor workers and the minimum wages. However, DGMS did not agree with the proposal on the grounds that issue pertaining to employment of contractual labour as provided under the Mines Act, Rules and Regulations framed there under are within the jurisdiction of DGMS which is being looked after. However, the payment of wages and minimum wages to the contractual labour are beyond the purview of DGMS.

11(iii): Shri S.P. Behera, representative of All India (Hind) Khadan Mazdoor Federation (HMS) mentioned that the number of contractor workers working under CIL has not been prepared & intimated to the Committee which may be done immediately and all contractor workers should be paid their wages through banks and the pay slips thereof should be provided to the workers.

Action : MoL&E / Coal Companies)

Inspection of Explosive Magazine

12. Shri S.K. Pandey, representative of BMS pointed out that the issue of joint inspection of Explosive Magazines by the CMDs of coal companies raised earlier is yet to be complied with and desired to know whether inspection by ED(S&R) with Area General Managers was conducted as decided in the earlier meeting. He emphasized the need for the same to curb the theft of explosives. In response CMD, SECL mentioned that Explosive Magazines are located in isolated areas, where adequate protective facilities are not available and therefore mere visit of CMD will not curb the problem. However, the company should make suitable security arrangements by deploying CISF/police guards. SECL has prepared comprehensive plans for security of magazines viz. provision of tower lighting, RCC construction near magazine for security personnel, deployment of CISF in some areas etc. MoS (Coal) opined that visit of CMDs would help in overcoming these issues and strengthen security measures. Regarding the visit of Magazines by ED (S&R), CIL, it was informed that the same has been complied with and corrective steps are being taken accordingly.

(Action : Coal Companies)

Sub-Committee to inspect the private mines

13. It was informed by Advisor (Projects), MoC that as decided in the previous meeting the Sub-Committee formed for the purpose had visited the Pachwara Central block OCP of M/s Panem Coal Mines and found the status of safety of operations to be satisfactory. A copy of the report signed by all the members of the sub-committee has also been enclosed with the agenda of this meeting. Shri S.Q. Zama appreciated the safety measures being taken by Pachwara Central Block OCP as observed during the visit of members of Sub-Committee of the Standing Committee on Safety in Coal Mines and requested the same to be placed on record. Responding to a query from CMD, CIL about continuing this arrangement of inspection of private mines, the representatives of TUs unanimously supported to continue the same. However, such visits will be on reference basis.

13(i) Advisor (Projects), MoC suggested that the practice of agriculture on the reclaimed land at Pachwara Central Block is one of its kind in the coal sector on a large scale and other coal companies should also follow this practice which would help to get Environmental Clearances apart from supporting the locals in their trade.

(Action: MoC/TUs)

Occupational Health Hazards (Agenda Item VII)

14. Shri S.Q. Zama, representative of INMWF (INTUC) expressed his concern over the slow progress in the strengthening of health services in the coal companies particularly WCL. In response CMD, CIL mentioned about the efforts of CIL in filling the vacancies of medical doctors. Director (Personnel), CIL informed that out of 120 doctors recruited, 90 doctors have joined but the specialists have not yet reported for duty. The doctors are being posted in the different subsidiaries.

(Action : Coal Companies/DGMS)

15. Shri S.K. Pandey, representative of BMS was critical about requirement of Statutory Personnel in NLC, where there is a huge shortfall, particularly in the overman and mining sirdar categories. CMD, SECL informed that this problem is due to non-availability of qualified competent person in the area with under ground mining experience as required by DGMS. CMD, NLC opined that there should be an amendment in CMR to sort out the problem. On this, DGMS informed that since there is huge investment and production level is high in mines of NLC, more qualified personnel are required, which an aspect is being considered in the proposed amendments of CMR.

(Action : MOL&E/NLC)

Sectionalisation of Under Ground Mines

16. Shri Ramender Kumar, representative of IMWF (AITUC) informed that after the unfortunate accident of Anjan Hills colliery, sectionalization of underground workings is under consideration. However, construction of ventilation stoppings is also not up-to-date in a number of mines even today. He expressed concern in this regard. CMD, SECL responded saying that due to non availability of access to some of the old areas and constraints of transporting materials some backlog has taken place but efforts are being made to cover the same.

(Action : Coal Companies)

Strata Control Cell

17. Shri S.K. Pandey emphasized that functioning of Strata Control Cells in various subsidiaries to be made effective in the interest of safety. CMD, CIL requested the CMDs of the subsidiaries to look into the matter.

Other Items

18. General Manager (Mines), Rajasthan State Mines & Minerals Ltd. suggested that other graduate engineers may be imparted training in mining for filling the statutory posts after obtaining the required certificates.

19. Shri S. Q. Zama mentioned that workers should be considered on duty in case of a heart attack during commuting between work place and the residence for claiming compensation. He emphasized the need for reducing dust in CHPs, Roll Over Protection (ROP) measures in case dozers, proper ventilation in underground mines through conducting scientific surveys etc.

The meeting ended with a vote of thanks to the chair.

Annexure
List of participants of the 34th meeting of Standing Committee on Safety in Coal Mines held on 23-12-2010 in New Delhi

<u>Sl. No.</u>	<u>NAME</u>	<u>DESIGNATION</u>
MINISTRY OF COAL		
	Minister of State (IC) for Coal and SPI	- Chairman
1.	Shri C. Balakrishnan	Secretary (Coal)
2.	Shri Alok Perti	Special Secretary (Coal)
3.	Shri P.R. Mandal	Adviser (Projects)
4.	Shri D.N. Prasad	Director (Tech.)
5.	Shri Daljit Singh Chowdhary	PS to MOS(C)
6.	Shri Rajneesh Gupta	OSD to MOS(C)
7.	Shri M.L. Baharani	G.M., CIL
TRADE UNION REPRESENTATIVES		
8.	Shri S.Q. Zama	Secy. Gen. INMWF (INTUC)
9.	Shri Sunil Mukherjee	Secretary, AIUTUC
10.	Shri S.K. Pandey	General Secretary, BMS
11.	Shri Ramendra Kumar	Gen. Secretary, IMWF (AITUC)
12.	Shri Shukdeo Narayan	President, CMOAI (Apex), BCCL

13. Shri R.B. Upadhyay Representative, IMMA
14. Shri S.P. Behera Representative, OCMLF, HMS
MINISTRY OF LABOUR & EMPLOYMENT, DGMS

15. Shri S.K. Dev Verman Joint Secretary (MoL&E)
16. Shri Satish Puri DGMS

COAL INDIA LIMITED

17. Shri P.S. Bhattacharya Chairman, CIL
18. Shri V.K. Singh CMD, NCL
19. Shri R.K. Saha CMD, CCL
20. Shri T.K. Lahiry CMD, BCCL/Acting ECL
21. Shri N.C. Jha Dir.(T), CIL/CMD, SECL
22. Shri Om Prakash Dir.(T/P&P), WCL
23. Shri R. Mohan Das Dir.(P&IR), CIL
24. Shri A.D. Mathur ED (Safety & Research), CIL
25. Shri A.G. Mukherjee CGM(S&C), WCL
26. Shri A.K. Singh CGM (S&R), SECL
27. Shri Jitendra Singh CGM(S&R), MCL
28. Shri T.B. Mitra CGM(S&R), CCL
29. Shri S.N. Upadhyay CGM(Safety)/ECL
30. Shri A.K. Nath GM(Safety), CIL
31. Dr. Debashish Sarkar GM, NEC

SINGARENI COLLIERIES COMPANY LIMITED (SCCL)

32. Shri B. Ramesh Kumar CGM(CP&P), SCCL
33. Shri Durga Vara Prasad RO, SCCL

NEYVELI LIGNITE CORPORATION LIMITED (NLC)

34. Shri A.R. Ansari CMD, NLC

CENTRAL MINE PLANNING & DESIGN INSTITUTE (CMPDI)

35. Shri S.K. Mitra DT, CMPDIL

CENTRAL INSTITUTE OF MINING & FUEL RESEARCH (CIMFR)

36. Dr. V.V.R Prasad Dy. Director (Roorkee Centre)

DAMODAR VALLEY CORPORATION (DVC)

37. Shri A.K. Thakur Manager (Mining), DVC

STEEL AUTHORITY OF INDIA LIMITED (SAIL-ISP)

38. Shri A.K. Dutta DGM, ISP SAIL

JINDAL STEEL

39. Shri D.N. Abrol E.D (R.M)

TATA STEEL

40. Shri Ch. Divaker General Manager

BENGAL EMTA

41. Shri A.K. Tooley Director, BECML & PANEM

JHARKHAND STATE MINERAL DEV. CORPORATION LTD.

42. Shri Arun Kumar Shukla Managing Director (Ranchi)

RAJASTHAN STATE MINES & MINERALS LIMITED (RSMM)

43. Shri R.K. Zoshi General Manager (Mines)

GUJARAT INDUSTRIES POWER CO. LTD.(GIPCL)

44. Shri Balmik Sahu Manager (Mines)

GUJARAT MINERAL DEVELOPMENT CORP.(GMDC)

45. Shri P.K. Soni General Manager (ISO)

ITEM NO. III

Action taken on recommendations of 34th meeting of Standing Committee on Safety in Coal Mines held on 23.12.2010

Particulars	Status / Action Taken
<p>4. CMD, CIL mentioned about various measures undertaken in mitigating these accidents:</p> <p>1) Through training of drivers including contractors, drivers for safe driving and by setting up of simulators.</p> <p>2) Switching over to conveyor belt transport in place of truck transport was being considered wherever was found feasible.</p> <p>3) Regarding fire / explosion, action has been initiated for Sectionalisation of workings in underground mines by constructing explosion proof stoppings. Arrangements are also being made for fighting the fires through drilling boreholes from surface and injecting inert material including flushing of nitrogen and for procurement of nitrogen plant.</p> <p>4) CIL has trained 20 officers at SIMTARS, Australia in U/G mines safety matters.</p> <p>5) CIL intends to bring down the accidents and fatalities by 50% of the current year level with all possible efforts. In this regard he mentioned about the steps being taken by BCCL management through random inspections by Directors and Safety Board Members in night shifts to bring about alertness amongst the officials.</p>	<p>1) Training Simulator is under Process of procurement. Details given in Annexure-I (P. 21)</p> <p>2) Study of feasibility is being done in some OC Project.</p> <p>3) Status of Sectionalisation stoppings given in Annexure-II (P. 21)</p> <p>4) Out of 20 SIMTARS trained executives 6 have joined CIL.ISO Kolkata Five of them are stationed at Kolkata and one at Bilaspur. They have conducted 10 training programmes in the areas of MCL & WCL. Training calendar up to December- 11. & details is given in Agenda Item - VI</p> <p>5) 44.44% fatalities reduction & 25.34% serious injuries reduction has been achieved in Jan'11 to Aug'11</p> <p>Status of Reduction in Fatalities & Serious in injuries is given in Annexure-III (P. 21)</p>
<p>8. Amendment in Coal Mines Regulation (CMR) - Shri S.Q. Zama, General Secretary, Indian National Mine Workers</p>	<p>MOL&E</p> <p>The amendments in Coal Mines Regulations (CMRs) have been finalized and requisite action is being taken by</p>

Particulars	Status / Action Taken									
<p>Federation (INTUC) expressed his dissatisfaction over the lack of regulation exclusively for opencast mining though more than 85% of the production in the country is from open cast mines. Director General of Mines Safety informed that the proposed amendment of draft CMR contains a comprehensive chapter on opencast mining covering safe operating procedures. Shri Zama stated that there has been inordinate delay in the matter and that it should be expedited.</p> <p>(Action : MoL&E)</p>	<p>publishing the same in the Gazette of India for inviting objections/suggestions.</p>									
<p>Roof Bolting</p> <p>9. Shri S.K. Pandey, representative of BMS and Shri S.Q. Zama, representative of INMWF (INTUC) expressed their concern regarding the delay in procurement of roof bolting machines particularly in CCL as committed in the previous meeting. CMD, CCL responded saying that the tender floated earlier for procurement of these machines had to be cancelled due to some unavoidable circumstances and retendering took place in October 2010 and the process is being expedited for procurement.</p> <p>(Action : CCL)</p>	<p>CIL</p> <p>Company-wise status of Roof Bolting M/cs is given in Annexure-IV (P. 22-23)</p> <p>SCCL : Roof Bolting Machines in SCCL:</p> <table border="1" data-bbox="773 869 1393 978"> <thead> <tr> <th colspan="3">Roof Bolter</th> </tr> <tr> <th>On Roll</th> <th>Order Placed</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>189</td> <td>220</td> <td>409</td> </tr> </tbody> </table> <p>NLC</p> <p>Not applicable since NLC operates only opencast Lignite Mines.</p>	Roof Bolter			On Roll	Order Placed	Total	189	220	409
Roof Bolter										
On Roll	Order Placed	Total								
189	220	409								
<p>Cement Capsule</p> <p>10. On the suggestion of Shri S.Q. Zama for institutionalizing manufacture of cement capsules, CMD, CIL mentioned that cement capsules are required in large quantities in widely scattered mines and therefore it cannot be manufactured / supplied through a single source. However, quantity wise it is already institutionalized. Wherever it is not feasible departmentally, it is being procured through outsourcing after ensuring the quality of the same as per the specifications of the DGMS.</p> <p>(Action : Coal Companies)</p>	<p>CIL</p> <p>Cement capsules are required in large quantities in widely scattered mines and therefore it cannot be manufactured / supplied through a single source. However, quantity wise it is already institutionalized. Wherever it is not feasible departmentally, it is being procured through outsourcing</p> <p>SCCL</p> <p>The Cement capsules are being procured through Corporate Purchase cell through different external sources, as the requirement is in large number. It is being tested to ensure the quality as per the specifications of the DGMS.</p>									
<p>Deployment of Contractor's Workers</p> <p>11. Shri Ramender Kumar, representative of IMWF (AITUC) and Shri S.K. Pandey, representative of BMS expressed their dissatisfaction</p>	<p>MOL&E</p> <p>The Ministry of Labour and Employment, as per the advice of Central Advisory Board, has constituted a sub-committee under the Chairmanship of Additional Secretary, Ministry of Labour and Employment to fix the</p>									

Particulars	Status / Action Taken
<p>about the information provided in the agenda note on the hours of work and payment of minimum wages to the contractors' workers. Shri Mukherjee, representative of CITU, informed that hours of work and minimum wages are different at different places. Shri S.Q. Zama added that even information on how many contractors' workers are working is not available.</p> <p>CMD, CIL agreed that information about contractors' workers should be reliable and that the number of workers and their payment of minimum wage should be certified by the Statutory Authority/Auditor.</p> <p>11(i) Shri S.Q. Zama, suggested that the payment of compensation as announced in case of Anjan Hill Colliery accident to the contractor workers should also be extended to contractor workers and dependents of contractors' workers deployed in other mines of CIL as well.</p> <p>11(ii) Shri Ramender Kumar suggested that DGMS as the authority for implementation of the provisions of Mines Act, should certify the working hours of contractor workers and the minimum wages. However, DGMS did not agree with the proposal on the grounds that issue pertaining to employment of contractual labour as provided under the Mines Act, Rules and Regulations framed there under are within the jurisdiction of DGMS which is being looked after. However, the payment of wages and minimum wages to the contractual labour are beyond the purview of DGMS.</p> <p>11(iii): Shri S.P. Behera, representative of All India (Hind) Khadan Mazdoor Federation (HMS) mentioned that the number of contractor workers working under CIL has not been prepared & intimated to the Committee which may be done immediately and all contractor workers should be paid their wages</p>	<p>wages in Coal Mines. The Sub-committee has made the recommendations in their final report to be placed before the Central Advisory Board for approval.</p> <p>CIL Company wise status of Working hours for the deployment of contractor's Workers and Minimum wages and mode of payment is given in Annexure-V (P. 24)</p> <p>Suggestion of Shri S.Q. Zama noted for Compliance.</p> <p>NLC The hours of work and minimum wages to the Contractors' Workers are uniform in all the units of NLC as per the guide lines issued by the Labour Commissioner (Central), Chennai. The compensation is being paid to the contract workers / dependents of contract workers deployed in mines in case of accident. The wage registers are being maintained by the contractors for the workers engaged by them and the wages for the workers are being paid by getting stamped receipt in the register and the same is certified by the concerned Executives. Based on the certification, before making payment to the contractor, EPF and equal contribution from the contractor are deducted from the bill due to the contractor and the same is remitted by NLC in the office of the Regional Provident Fund Commissioner, Trichy to ensure the payment of minimum wages to the contract workers.</p> <p>SCCL</p> <ul style="list-style-type: none"> ➤ Contractors' workers are working for 8 hours in a day. ➤ Payment of minimum wages is ensured by mine authorities. ➤ Payment made through bank only. ➤ Provident fund deduction from contract workmen clause is incorporated in NITs while awarding contractual works. ➤ Details of the contractors' workmen are being maintained in the owner's Form-B register. ➤ C, D & E registers for contractor men are being maintained independently by the owner. All the above registers shall be kept in the mine office of the manager. ➤ Compensation to contractors' workers in case of accident being paid as per Workmen's compensation Act and other benefits by the Contractor. <p>DGMS The issue pertaining to employment of contractual workers as provided under the Mines Act, Rules and</p>

Particulars	Status / Action Taken
<p>through banks and the pay slips thereof should be provided to the workers.</p> <p>(Action : MoL&E / Coal Companies)</p>	<p>Regulations framed there under is within the jurisdiction of DGMS and the same is being looked after. However, payment of wages and minimum wages to the contractual workers are beyond the purview of DGMS</p>
<p><u>Inspection of Explosive Magazine</u></p> <p>12. Shri S.K. Pandey, representative of BMS pointed out that the issue of joint inspection of Explosive Magazines by the CMDs of coal companies raised earlier is yet to be complied with and desired to know whether inspection by ED(S&R) with Area General Managers was conducted as decided in the earlier meeting. He emphasized the need for the same to curb the theft of explosives. In response CMD, SECL mentioned that Explosive Magazines are located in isolated areas, where adequate protective facilities are not available and therefore mere visit of CMD will not curb the problem. However, the company should make suitable security arrangements by deploying CISF/police guards. SECL has prepared comprehensive plans for security of magazines viz. provision of tower lighting, RCC construction near magazine for security personnel, deployment of CISF in some areas etc. MoS (Coal) opined that visit of CMDs would help in overcoming these issues and strengthen security measures. Regarding the visit of Magazines by ED (S&R), CIL, it was informed that the same has been complied with and corrective steps are being taken accordingly.</p> <p>(Action : Coal Companies)</p>	<p>CIL Company-wise details of security arrangement of magazine are given in Annexure-VI (P. 25)</p> <p>NLC Higher level officials up to CMD are inspecting the Magazines then and there and the Magazines for all the Mines are constructed in a single place with a boundary wall and is guarded round the clock by Armed Central Industrial Security Force (CISF) Personnel to ensure security and avoidance of theft. In addition, provision of Tower Lighting and RCC Construction for the CISF personnel is made available near the magazine.</p> <p>SCCL</p> <ul style="list-style-type: none"> ➤ A Committee was constituted with CGM(Safety), GM(Civil) and Chief Security officer for examining and improving the security arrangements. The following are the security arrangements made accordingly. ➤ Total 20 ARP Armed Guards(2+8 each at GDK-9 & GDK-5 respectively, 54 CISF Armed Guards(1+17 each at MK-4,SRP; KK-5, MM & at Buda area, BPA respectively) and 15 Security Guards (2+2+2 each at CMPF office, KGM and Main magazine, MNG and 1+1+1 at PVK-5 Inc., KGM respectively) are deployed in Explosive magazines of three regions. ➤ Erection of light masts in opposite diagonal corners, generator and revolving search lights are provided for proper illumination around. ➤ Construction of 2 morchas near magazines. ➤ Laying double fencing of both chain link mesh and barbed wire fencing of 8’ feet height with concertina coils are provided. <p>Construction & extension of barracks and provision of toilets.</p> <p>Bushes clearance and grass cutting in the magazine premises is being arranged regularly.</p>
<p><u>Sub-Committee to inspect the private mines</u></p> <p>13. It was informed by Advisor (Projects), MoC that as decided in the previous meeting the Sub-Committee formed for the purpose had visited the</p>	<p>MOC</p> <p>As discussed during the meeting, the visits will be on reference basis. However, no reference has so far been received.</p>

Particulars	Status / Action Taken
<p>Pachwara Central block OCP of M/s Panem Coal Mines and found the status of safety of operations to be satisfactory. A copy of the report signed by all the members of the sub-committee has also been enclosed with the agenda of this meeting. Shri S.Q. Zama appreciated the safety measures being taken by Pachwara Central Block OCP as observed during the visit of members of Sub-Committee of the Standing Committee on Safety in Coal Mines and requested the same to be placed on record. Responding to a query from CMD, CIL about continuing this arrangement of inspection of private mines, the representatives of TUs unanimously supported to continue the same. However, such visits will be on reference basis.</p> <p>13(i) Advisor (Projects), MoC suggested that the practice of agriculture on the reclaimed land at Pachwara Central Block is one of its kind in the coal sector on a large scale and other coal companies should also follow this practice which would help to get Environmental Clearances apart from supporting the locals in their trade. (Action: MoC/TUs)</p>	
<p><u>Occupational Health Hazards</u> <u>(Agenda Item VII)</u></p> <p>14. Shri S.Q. Zama, representative of INMWF (INTUC) expressed his concern over the slow progress in the strengthening of health services in the coal companies particularly WCL. In response CMD, CIL mentioned about the efforts of CIL in filling the vacancies of medical doctors. Director (Personnel), CIL informed that out of 120 doctors recruited, 90 doctors have joined but the specialists have not yet reported for duty. The doctors are being posted in the different subsidiaries. (Action : Coal Companies/DGMS)</p>	<p>MOL&E As far as recruitment of Doctors for strengthening of Health Services in coal is concerned, CMD of CIL had informed that out of 120 Doctors recruited, 90 Doctors had already joined. CIL has been reminded by DGMS on 1st Dec, 2010 and also reminder vide letter dated 5th May, 2011 with copies to all the subsidiaries of CIL.</p> <p>DGMS The issue pertains to various coal companies who are being required by DGMS officers to ensure filling of vacancies of specialist medical doctors during their inspections of facilities and discussions with managements.</p> <p>CIL Status of occupational health services in CIL is given in Agenda item-VII</p> <p>NLC Sufficient number of Doctors (68 Doctors and 18 Junior Residents) is available in NLC Project Hospital to take care of the Occupational Health Hazards of employees.</p> <p>SCCL</p>

Particulars	Status / Action Taken																				
	There is shortage of some of the specialists. Already recruitment of specialist doctors is under completion.																				
<p>Requirement of Statutory Personnel and action taken to fill up the shortage:</p> <p>15. Shri S.K. Pandey, representative of BMS was critical about requirement of Statutory Personnel in NLC, where there is a huge shortfall, particularly in the overman and mining sirdar categories. CMD, SECL informed that this problem is due to non-availability of qualified competent person in the area with under ground mining experience as required by DGMS. CMD, NLC opined that there should be an amendment in CMR to sort out the problem. On this, DGMS informed that since there is huge investment and production level is high in mines of NLC, more qualified personnel are required, which an aspect is being considered in the proposed amendments of CMR.</p> <p>(Action : MOL&E/NLC)</p>	<p>MOL&E</p> <p>DGMS has informed that the shortfall in Statutory personnel in CIL has been addressed at various Tripartite meetings and has been addressed to CIL in series of letters vide Nos. DG / P / 2010 / Genl / 1997 ; DG / P / Genl / 2922 and DG / P / Genl / 1109 dated 19th Nov, 2010; 1st Dec, 2010 and 5th May, 2011 respectively with copies to all the subsidiaries of CIL. The suggested amendment has been incorporated in the proposed amendment to CMR, 1957.</p> <p>DGMS</p> <p>Since there is huge investment and production level in mines, more qualified skilled personnel is required, which is an aspect being considered in the proposed amendment of Coal Mines Regulations- 2011.</p> <p>CIL</p> <p>Status of statutory personnel of CIL is given in Agenda Item VIII (P. 43).</p> <p>NLC</p> <p>NLC operates only opencast Lignite Mines and hence there should be an amendment in CMR to sort out short fall in statutory personnel in particular under Overman and Sirdar categories. However, details of Statutory personnel required as per GI 2008/2009 by DDMS, Chennai, availability and shortfall/Excess are as under:</p> <table border="1" data-bbox="776 1150 1398 1413"> <thead> <tr> <th>Category</th> <th>Requirement As per GI by DDMS/Chennai</th> <th>Existing</th> <th>Shortfall (-) / Excess (+)</th> </tr> </thead> <tbody> <tr> <td>A. M. (1st & 2nd Class)</td> <td>130</td> <td>109</td> <td>(-) 21</td> </tr> <tr> <td>Over Man</td> <td>223</td> <td>22</td> <td>(-) 201</td> </tr> <tr> <td>Mining Sirdar</td> <td>223</td> <td>4</td> <td>(-) 219</td> </tr> <tr> <td>Surveyor</td> <td>20</td> <td>16</td> <td>(-) 4</td> </tr> </tbody> </table> <p>A number of advertisements were issued from the year 1996 onwards towards recruitment of statutory personnel holding statutory qualifications.</p> <p>10 Nos. of Graduate Engineer Trainees (Mining) have joined during the month of July 2010 and they will be counted against the Statutory personnel after obtaining the required certificate.</p> <p>With regard to Over men, notification was issued in 2005 and 2009, very few people have joined and some people left NLC.</p> <p>Regarding Mining Sirdar, it was indicated to DMS/Chennai that NLC is having highly Mechanised Mines and hence Sirdar with matriculation Qualification will not be able to perform and have effective control of the work. But DGMS is insisting upon posting of Sirdar.</p>	Category	Requirement As per GI by DDMS/Chennai	Existing	Shortfall (-) / Excess (+)	A. M. (1st & 2nd Class)	130	109	(-) 21	Over Man	223	22	(-) 201	Mining Sirdar	223	4	(-) 219	Surveyor	20	16	(-) 4
Category	Requirement As per GI by DDMS/Chennai	Existing	Shortfall (-) / Excess (+)																		
A. M. (1st & 2nd Class)	130	109	(-) 21																		
Over Man	223	22	(-) 201																		
Mining Sirdar	223	4	(-) 219																		
Surveyor	20	16	(-) 4																		

Particulars	Status / Action Taken
	<p>NLC has posted Mechanical and Electrical Engineers as Front line Supervisors at the highly mechanized working area of Mines.</p> <p>In addition campus interview was conducted during 2nd week of April 2011 for the recruitment of Graduate Engineer Trainees at Anna University, Chennai and Indian School of Mines/Dhanbad.</p>
<p><u>Sectionalisation of Under Ground Mines</u></p> <p>16. Shri Ramender Kumar, representative of IMWF (AITUC) informed that after the unfortunate accident of Anjan Hills colliery, sectionalization of underground workings is under consideration. However, construction of ventilation stoppings is also not up-to-date in a number of mines even today. He expressed concern in this regard. CMD, SECL responded saying that due to non availability of access to some of the old areas and constraints of transporting materials some backlog has taken place but efforts are being made to cover the same.</p> <p>(Action : Coal Companies)</p>	<p>CIL Action initiated to expedite construction of ventilation stopping. Status of Sectionalisation stoppings is given Annexure – II (P. 21)</p> <p>SCCL Sectionalisation of areas in underground mines is identified and unused galleries are sectionalized, ventilation stoppings are up to date in major ventilation circuits. Ventilation stoppings are constructed in districts wherever required. Developed areas also were sectionalized so as to have better ventilation.</p>
<p><u>Strata Control Cell</u></p> <p>17. Shri S.K. Pandey emphasized that functioning of Strata Control Cells in various subsidiaries to be made effective in the interest of safety. CMD, CIL requested the CMDs of the subsidiaries to look into the matter.</p>	<p>CIL Status of strata control cell and Simulator in CIL is given in Annexure – VII (P. 26-28)</p>
<p><u>Other Items</u></p> <p>18. General Manager (Mines), Rajasthan State Mines & Minerals Ltd. suggested that other graduate engineers may be imparted training in mining for filling the statutory posts after obtaining the required certificates.</p> <p>19. Shri S. Q. Zama mentioned that workers should be considered on duty in case of a heart attack during commuting between work place and the residence for claiming compensation. He emphasized the need for reducing dust in CHPs, Roll Over Protection (ROP) measures in case dozers, proper ventilation in underground mines through conducting scientific surveys</p>	<p>CIL CIL provides compensation as per Workmen Compensation Act- 1923.</p> <p>NLC The suggestion of giving training in Mining for other Graduate Engineers for filling up the statutory posts after obtaining the required certificates may be considered.</p> <p>CIL Being complied.</p> <p>NLC → The compensation is being paid next to the kin of the workers/employees as per the Workmen Compensation Act. → Water sprinkling is being done regularly to suppress dust. In addition NIMH has conducted noise mapping, respirable dust survey and vibration test as</p>

Particulars	Status / Action Taken
etc.	<p>a measure of environmental study in the year 2004, 2006, and 2007. The results observed are well within the permissible limits.</p> <p>→ In order to ensure roll over protection for dozers operating in NLC Mines out of 145 Nos. 114 Nos. have already been provided with the required ROPS. Action is already taken to provide roll over protection system in a phased manner for the remaining dozers.</p>

Annexure-I
(Ref. para 4(1) of ATR)

STATUS OF SIMULATOR IN CIL

Company	Status of Procurement of Training Simulator
ECL	Not yet done
BCCL	Not yet done
CCL	Tendering for procurement of Simulator has been done.
NCL	Issuance of supply order is in final stage.
WCL	2 no. of surveyed off 35Tne dumpers has been converted into mechanical simulator.
SECL	Tendering done.
MCL	Tender will be opened on 9 th Sept., 11.
NEC	Not yet done

Annexure-II
(Ref. para 4 (3) of ATR)

STATUS OF SECTIONALISATION IN CIL

Sectionalisation of Underground working:

An exercise was done in May'2010 to assess the requirement of sectionalisation stopping in UG mines. Accordingly a comprehensive action plan for construction of the same with time frame was prepared at subsidiary companies of CIL. The same is being updated in every month.

The present status of construction of the stopping as on 01.05.11 is given below:

Company	No. of Stopping Balance in 2010-11	Proposed for construction in 11-12	Total numbers of stoppings already constructed in 11-12	Balance for completion in 11-12
ECL	1111	1111	115	996
BCCL	509	509	17	492
CCL	810	810	15	795
WCL	597	1282	745	537
SECL	1661	2187	527	1660
MCL	0	104	45	59
CIL	4688	6003	1464	4539

Efforts made in this context:

- i. Use of RCC/ concrete slabs are being used to reduce the construction time.
- ii. Groove cutting machine is being developed to reduce the physical labour and time.
- iii. Battery operated car for transporting of building material is being explored.
- iv. Companies HQ are regularly monitoring the progress of work.

Annexure-III
(Ref. para 4 (5) of ATR)

Reduction in Fatality & Serious Injury in CIL for 2011 upto 31.08.11 compare to same period last year.

Fatality in 2010 upto 31.8.10	Fatality in 11 upto 31.08.11	Serious Injury in 2010 upto 31.08.10	Serious Injury in 11 upto 31.08.11	% Reduction in Fatality	%Reduction in Serious Injury
63	35	221	165	44.44%	25.34%

Annexure-IV
(Ref. para 9 of ATR)

STATUS OF ROOF BOLTING MACHINE IN CIL

A) Status of Roof Bolting Machine

Company	Required	Shortage as on 23.12.10	Added after 23.12.10	Shortage as on 01.05.11
ECL	96	94	20	74
BCCL	158	53	00	53
CCL	20	19	19	Nil
WCL	100	72	51	21
SECL	229	151	33	118
MCL	11	00	18	Nil
CIL	614	389	141	259

Efforts made in filling up the shortage:

ECL: 79 Nos are under different stage of procurement (24 UDM, 18 Pneumatic)

BCCL: 53 Nos are under different stage of procurement (28 Hydraulic & 25 UDM)

WCL: Balance 21 will be procured in next two years.

B) Type of Roof Bolting M/c in ECL

Type of Roof Bolting M/c	Status as on 23.12.10	Added After 23.12.10	Shortage as on 01.05.11	Qty. as per indent	Status as on 30.8.11
i) UDM	02	3	24	24	Tender opened on 8.4.11. Order yet to be placed.
ii)Hydraulic Drilling M/c		7	16	16	Due to technical reason earlier open tender was cancelled which was due on 30.5.08 .Fresh tender through e-tendering is to be done
iii)Mechanical roof bolter		7	7		
iv)Hydraulic Drill mounted on bucket of SDL		3	7		
v)Pneumatic Drill	Nil	Nil	20	20	Tender due on 29.03.11. Supply order yet to be placed
vi)Quad Bolter		2			
Total	02	22	74	60	

BCCL

Type of Roof Bolting M/c	Status as on 23.12.10	Added after 23.12.10	Shortage as on 01.05.11	Shortage as on 31.8.11
i) UDM	Nil	--		
ii)Hydraulic Drilling M/c	Nil	--		
iii)Mechanical roof bolter	Nil	00		
iv)Hydraulic Drill mounted on bucket of SDL	50	00		
v)Pneumatic Drill	55	00		
vi)Quad Bolter	Nil	--		
Total	105	00	53	53

WCL

Type of Roof Bolting M/c	Status as on 23.12.10	Added after 23.12.10	Shortage as on 01.05.11	Shortage as on 31.8.11
i) UDM	13	32		
ii)Hydraulic Drilling M/c	08	10		
iii)Mechanical roof bolter	--	19		
iv)Hydraulic Drill mounted on bucket of SDL	--	Nil		
v)Pneumatic Drill	06	06		
vi)Quad Bolter	01	01		
Total	28	68	21	21

SECL

Type of Roof Bolting M/c	Status as on 23.12.10	Added after 23.12.10	Shortage as on 01.05.11	Shortage as on 31.08.11
i) UDM	55+ 20 converted	--		
ii)Hydraulic Drilling M/c	3	5		
iii)Mechanical roof bolter	--	15		
iv)Hydraulic Drill mounted on bucket of SDL	--	--		
v)Pneumatic Drill	--	1		
vi)Quad Bolter	--	2		
Total	78	23	118	118

Proposal for 43 Nos. of Standard Height UDM is under process. Balance requirement is for low height UDM. No manufacturer in India has so far produced the low height UDM. Trial tender has been floated for 1 No. low height UDM. After its satisfactory performance procurement of low height UDM will be done

Deployment of Contractor's Worker in CIL

(A) Working hours and Minimum wages:

Com-pany	Hour per day of employment of contractor workers			Minimum wages Paid			Mode of payment, through bank or other specifies.
	U/G	OC	Surface	U/G	OC	Surface	
ECL	8 hrs	8 hrs	8 hrs	As per minimum wages Act			Bank / cash.
BCCL	8 hrs	8 hrs	8 hrs	As per minimum wages Act			Through Bank
CCL	8hrs	8hrs	12 hrs with break	As per minimum wages Act			Cash / bank
NCL	-	8hrs	8hrs	As per minimum wages Act of UP & depending upon the location of the mine.			Bank (more than 1 year) else through cash.
WCL	8hrs	8hrs	8hrs	As per minimum wages Act or such other legislation or minimum wages fixed by respective State Govt. as may be in force.			Cash payment by Contractor as well as bank
SECL	8hrs	8hrs	8hrs	Rs 149.63 (Unskilled) Rs 155.23 (Semiskilled) Rs.160.96 (Skilled)	Rs 146.00 To Rs 157.00	Rs 149.63 (Unskilled) Rs 155.23 (Semiskilled) Rs.160.96 (Skilled)	Through Bank
MCL	8hrs	8hrs	8hrs	More than Minimum wages of Central Govt in consultation with Union and Transporter			Cash payment by Contractor as well as bank
NEC	8hrs	8hrs	8hrs	As per minimum wages Act			Cash payment by Contractor as well as bank

(B) Number of Contractor Workers Employed:

Company	Number of Contractor Worker
ECL	6932
BCCL	2829
CCL	2300
NCL	8218
WCL	3072
SECL	5253
MCL	6668
NEC	742

ANNEXURE-VI
(Ref. para 12 of ATR)

Security Arrangement of Magazines in CIL

Com- pany	Inspected by	Security arrangement at Magazines	Total number of central Magazine		
			2010	2011	Reduction
ECL	Area Security officer, CISF & Company Security	CISF and Company own Security	91	82	9
BCCL	CIFS and area officials	CISF	33	22	11
CCL	Committee consisting of officers from E&M, Operation and Safety department from CCL Hq.	CISF, Home Guard, CCL Security.	35	35	-
NCL	Area Magazine In charge, GM / CGM, AGM, ASO & Blasting officer of the Mine.	Four Arm Guards with one Hawaldar in all shifts ii) One Arm guard goes along with explosive van. iii) The magazine is under under 24 hours supervision by Arm Guards iii) Wireless, Telephone & adequate lighting has been provided.	07	03	4
WCL	ISO Official and Area officials	Armed Guards, CISF, Company own Security	21	21	-
SECL	Security Dept. and Area Management	Pvt. Security Guards, Company own Security guard	27	27	-
MCL	ISO Official and Area officials	Company own Security guard and CISF is going to be deployed very shortly	5 central Magazine under which 28 cluster magazine	5 central Magazine under which 28 cluster magazine	-

STATUS OF STRATA CONTROL CELL IN CIL

Recommendation, Objectives, Activity/Jobs & Present Status of Manpower and Instrumentations in subsidiaries of CIL:

• **Recommendation**

As per Xth Conference on Safety in Mines:-

In every Coal Mining Company, a **Strata Control Cell** shall be established at corporate and area levels within a period of one year to assist mine managers for

- i. Formulation of Systematic Support Rules
- ii. Monitoring strata control measures in a scientific way to ensure efficacy of support
- iii. Procurement and supply of quality supporting materials.

Such cell shall be manned by adequate number of technical personnel headed by a senior official not below the rank of a General Manager at corporate level and Dy General Manager at the area level.

• **Objectives:**

1. .To design optimum support system.
2. To assess the dilation & convergence of strata layers .
3. To assess the Load & Stress around openings& monitor / control caving of roof as desired.
4. To avoid premature collapse of roof and sides & to determine Threshold limit of convergence and stress for safe withdrawal of men and machinery.

• **Activity/Job of Strata control cell**

At HQ Level:

A) Technical Jobs

- i. Training of personal: - On Rock Mass classification system,Methodology of Bolting and Field Instrumentation
- ii. Identification of locality in Mine.
- iii. Geological/ Geotechnical Investigation& Laboratory Testing.
- iv. Analysis of Geotechnical Data :-For Support performance Monitoring and Installation of Instrument, Assist in Design of support system, formation of SSR &Geo Technical Analysis.
- v. Monitoring of support performance and strata behaviour ,final recommendation on support system, revision of support system if required, periodical assessment of geo-mining condition

B) Administrative Jobs.

- i. Preparation of Capital and Revenue Budget. ii. Ensuring quality of material through checking, inspection and testing at CMPDI/ at accredited lab, random checking support system for support performance. iii. Dissemination of circular from DGMS regarding Approval, Tech. Circulars and new advancement.

At Area & Mine level:

- i. Training: On Rock Mass classification system, Methodology of Bolting Instrumentation.
- ii. Monitoring of Strata movements through Instrumentation.
- iii. Assist in identification of locality in mines for determination of RMR, Design of support system, Formulation of SSR, Implementation of support scheme & Monitoring of support performance and strata behaviour.

- iv. Monitoring of installation of instrument for strata behavior, ensure deployment of person for support work in 3 Shift Ensure systematic Anchorage testing of installed roof bolts.

A. Availability of Manpower and Number of Strata Control Cell

Com-pany	No. of Cell Available		Manpower Available	
	At HQrs.	At Area and Mine	At HQrs.	At Area and Mine
ECL	1	12	1(GM)	26(AGM & ASO)
BCCL	1	11	1(GM)	36(AGM ,ASO& SO)
CCL	1	0	1(GM)	Nil
WCL	1	9	3(GM & others)	9(ASO)
SECL	1	74	9(GM others)	107(AGM ,ASO,SO & others)
MCL	1	2	7(GM others)	4(AGM & ASO)
NEC		1	-	4(ASO & Others)

B. Instrument in use:

Company	At HQrs. Level	At Area and Mine
ECL	Nil	Convergence recorder,Load Cell,Rotary Tell Tail,Dual Height tell Tail,Telescopic Convergence Recorder, Remote Convergence Recorder, Stress meter
BCCL	Nil	Covergence Recorder,Tell Tail
CCL	Nil(Catered by CMPDI)	Telescopic type convergence Recorder
NCL	Nil	Roof bolt type load cells ,Remote convergence indicator , read out unit , Stress capsule with installation unit , Tale tell: - (a) Single point anchor – (b) Double point anchor c) Triple point anchor (d) Installation tool
WCL	Slack Durability Test app, Compressive Strength Test App, Uniaxial Tensile testing instrument, Micro Oven, Electronic Weigh Balance, Rock Cutting M/C	Tell Tail,Multi point Bore hole Extensometer,Magnasonic Extensometre,Telescopic Convergence Monitor,Remot Convergence Indicator,Stress Meter,Continuous Pressure recorder,Earth Pressure cell,Strain Guage Rock Bolt
SECL	Nil	Tell Tail, Convergence recorder.
MCL	Nil	Convergence recorder,Load Cell,Rotary Tell Tail,Dual Height tell Tail,Telescopic Convergence Recorder, Remote Convergence Recorder, Stress meter

- **CMPDI a subsidiary of CIL has the following infrastructure and services :**

A. Strata Control Cell Organization:

RMR/Subsidence Prediction/Pillar Design/Parting Stability/Numerical modeling

B. Assistance provided:

Determination of RMR, Design of Support System, Formation of SSR, Monitoring of Strata, Physico Mechanical Properties of Strata by Geotechnical Analysis. Cavability Study. Subsidence prediction Numerical Modelling, and Testing of Cement & Resin Capsule parameter.

C. R & D Projects on Strata Control:

- i. Generation /analysis of Coal field-wise database of physic mechanical characteristics of Rock/Coal and representative numerical Model for appropriate solution to strata control problem.
- ii Establishment of correlation between physic mechanical ,Chemical and bonding Strength of Cement & Resin Capsules.

D. Numerical Modeling:

Case study on Modeling and analysis of typical mines in FLAC software to find out:

Principal Stresses, Displacement, Factor of Safety and Support Requirement.

E. Instrumentation at CMPDI Lab.

Universal Testing M/C, Point Load Test apparatus, Slack Durability Test app., Electronic Balance, BH Strata Scope, Convergence Indicator (Mechanical & suspension Type)Load Cell (Mechanical & Electronic type),Mech. Extensometer, Mech Strain Bar, Tell Tail.

ITEM NO. IV Safety Statistics

1. All India

Overall fatal accidents, fatalities, serious accidents, serious injuries and fatality rate per million tonne of coal production in last 3 years

Sl. No.	Parameters	2008	2009	2010	2011
1	Numbers of fatal accidents	59	55	74	40
2	Numbers of fatalities	71	62	92	41
3	Numbers of serious accidents	274	249	187	118
4	Numbers of serious injuries*	291	262	206	131

Note : Serious injuries of fatal accidents are also considered in computation of number of : well as rates for serious injury. Figures updated as on 31.07.2011 and provisional.

2. Coal India Limited

a. Safety statistics between 34th and 35th meeting (between 23.12.2010 to 31.8.2011)

Sl No	Parameters	Numbers
1	Number of fatal accidents	40
2	Number of fatality	41
3	Number of serious accidents	180
4	Number of serious injuries	197

b. Safety Statistics of CIL for last 3 years and the current year 2011 (up to 31.8.2011)

Sl. No.	Parameters	2008	2009	2010	2011
1	Numbers of fatal accidents	60	55	72	34
2	Numbers of fatalities	72	62	90	35
3	Numbers of serious accidents	275	238	262	151
4	Numbers of serious injuries	292	249	280	165
5	Fatality Rate per million ton of coal production	0.20	0.17	0.21	0.12
6	Fatality Rate per 3 lakhs manshift deployed	0.23	0.20	0.31	0.18
7	Serious injury Rate per MT of coal production	0.80	0.68	0.64	0.58
8	Serious injury Rate per 3 lakhs manshift deployed	0.92	0.79	0.95	0.87

Figures are provisional & subject to reconciliation with DGMS.

c. Company-wise Fatal Accidents, Fatalities, Serious Accidents & Serious Injuries for last 3 years and the current year (Up to 31.8.2011)

Company	Fatal Accidents				Fatalities				Serious Accidents				Serious injuries			
	2008	2009	2010	2011	2008	2009	2010	2011	2008	2009	2010	2011	2008	2009	2010	2011
BCCL	11	13	7	5	11	17	7	6	49	50	60	29	49	50	61	34
CCL	4	6	8	5	4	6	10	5	18	12	11	8	19	12	11	8
ECL	11	8	12	6	11	9	12	6	112	74	88	42	113	75	88	45
MCL	4	3	2	3	4	3	2	3	5	8	6	5	5	8	6	5
NCL	6	4	11	3	10	4	11	3	8	11	11	6	8	11	11	8
NEC	2	0	1	2	7	0	1	2	0	0	0	0	14	0	0	0
SECL	11	10	20	6	12	10	33	6	54	47	44	39	55	50	57	40
WCL	11	11	11	4	13	13	14	4	29	46	42	22	29	46	46	25
CIL	60	55	72	34	72	62	90	35	275	248	262	151	292	252	280	165

Figures are provisional and subject to reconciliation of DGMS.

d. Company-wise Cause-wise Fatal Accidents & Fatalities in last 3 years and the current year (Up to 31.8.2011)

COMPANY	YEAR	GROUND MOVE-MENT		HAULAGE, WINDING, CONVEYOR		TRUCKS, WAGONS /DUMPERS		NON-TRANSP T M/C		EXPLO-SIVES		ELECTRI-CITY		OTHERS		TOTAL	
		A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F
ECL	2008	6	6	1	1	1	1	2	2	0	0	0	0	1	1	11	11
	2009	6	6	0	0	4	4	1	1	0	0	0	0	3	7	14	18
	2010	4	4	1	1	3	3	1	1	0	0	2	2	1	1	12	12
	2011	2	2	0	0	2	2	1	1	0	0	0	0	1	1	6	6
BCCL	2008	0	0	1	1	0	0	1	1	1	1	0	0	1	1	4	4
	2009	5	5	0	0	4	4	1	1	0	0	0	0	3	7	13	17
	2010	0	0	1	1	4	4	1	1	0	0	1	1	0	0	7	7
	2011	1	2	1	1	1	1	1	1	0	0	0	0	1	1	5	6
CCL	2008	1	1	2	2	3	3	2	2	0	0	1	1	2	2	11	11
	2009	0	0	1	1	3	3	2	2	0	0	0	0	0	0	6	6
	2010	1	2	0	0	5	6	0	0	0	0	1	1	1	1	8	10
	2011	0	0	1	1	1	1	0	0	0	0	1	1	2	2	5	5
NCL	2008	1	1	0	0	2	2	1	1	0	0	0	0	0	0	4	4
	2009	0	0	0	0	0	0	2	2	0	0	1	1	0	0	3	3
	2010	0	0	0	0	8	8	0	0	0	0	1	1	2	2	11	11
	2011	0	0	0	0	3	3	0	0	0	0	0	0	0	0	3	3
WCL	2008	0	0	0	0	2	2	1	1	0	0	0	0	3	7	6	10
	2009	5	7	2	2	2	2	0	0	0	0	0	0	2	2	11	13
	2010	4	7	0	0	3	3	2	2	1	1	0	0	1	1	11	14
	2011	1	1	1	1	1	1	0	0	0	0	0	0	1	1	4	4
SECL	2008	0	0	0	0	0	0	0	0	0	0	1	2	1	5	2	7
	2009	2	2	0	0	3	3	3	3	0	0	0	0	2	2	10	10
	2010	10	10	0	0	2	2	3	3	0	0	1	1	4	17	20	33
	2011	2	2	1	1	2	2	0	0	0	0	0	0	1	1	6	6
MCL	2008	5	6	0	0	4	4	2	2	0	0	0	0	0	0	11	12
	2009	2	2	0	0	3	3	2	2	0	0	0	0	2	2	9	9
	2010	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
	2011	0	0	0	0	2	2	0	0	0	0	0	0	1	1	3	3
NEC	2008	4	6	1	1	4	4	0	0	0	0	0	0	2	2	11	13
	2009	6	7	2	2	1	1	0	0	0	0	0	0	2	3	11	13
	2010	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
	2011	0	0	0	0	1	1	0	0	0	0	0	0	1	1	2	2
CIL	2008	17	20	5	5	16	16	9	9	1	1	2	3	10	18	60	72
	2009	16	18	3	3	15	15	10	10	0	0	1	1	10	15	55	62
	2010	19	23	2	2	28	29	7	7	1	1	6	6	9	22	72	90
	2011	6	7	4	4	13	13	2	2	0	0	1	1	8	8	34	35

All figures are provisional & subject to reconciliation with DGMS.

“Others”- Includes ‘fall of object / person’, ‘fall of partings’, ‘Gas, dust, etc’, ‘Miscellaneous’ & ‘Inundation’.

e. Company-wise Cause-wise Serious Accidents & Serious Injuries in last 3 years and the current year (Up to 31.8.2011)

COMP ANY	Year	Roof/side Falls		Haulage, Conveyor & Winding		Trucks, Dumpers & Wagons		Non-transport m/cs		Explosives		Electricity		Others		Total	
		A	I	A	I	A	I	A	I	A	I	A	I	A	I	A	I
BCCL	2008	3	3	9	9	3	3	1	1	0	0	0	0	33	33	49	49
	2009	2	2	5	5	2	2	2	2	0	0	0	0	30	30	41	41
	2010	1	2	16	16	1	1	5	5	0	0	1	1	36	36	60	61
	2011	3	3	10	15	0	0	5	5	0	0	0	0	11	11	27	34
CCL	2008	1	1	2	2	4	5	1	1	0	0	0	0	10	10	18	19
	2009	0	0	0	0	3	3	1	1	0	0	0	0	2	2	6	6
	2010	1	1	0	0	4	4	3	3	1	1	1	1	1	1	11	11
	2011	1	1	1	1	0	0	1	1	0	0	0	0	5	5	8	8
ECL	2008	8	9	17	17	4	4	7	7	0	0	0	0	76	76	112	113
	2009	10	11	15	16	5	5	8	8	0	0	0	0	72	72	110	112
	2010	11	11	5	5	1	1	1	1	0	0	0	0	70	70	88	88
	2011	2	4	3	3	1	1	2	2	0	0	1	1	33	34	42	45
MCL	2008	0	0	0	0	0	0	0	0	0	0	0	0	5	5	5	5
	2009	1	1	1	1	1	1	1	1	0	0	0	0	2	2	6	6
	2010	0	0	0	0	3	3	0	0	0	0	0	0	3	3	6	6
	2011	2	2	0	0	1	1	1	1	0	0	0	0	1	1	5	5
NCL	2008	0	0	1	1	2	2	1	1	0	0	0	0	4	4	8	8
	2009	0	0	0	0	0	0	1	1	0	0	0	0	1	1	2	2
	2010	0	0	0	0	5	5	0	0	0	0	0	0	6	6	11	11
	2011	0	0	0	0	2	3	1	1	0	0	0	0	3	4	6	8
SECL	2008	15	15	6	6	0	0	7	8	0	0	0	0	26	26	54	55
	2009	8	8	4	4	1	1	4	4	1	3	0	0	17	17	35	37
	2010	4	7	4	7	1	1	4	5	0	0	0	0	31	37	44	57
	2011	3	3	7	8	2	2	2	2	1	1	0	0	24	24	39	40
WCL	2008	3	3	4	4	2	2	4	4	0	0	0	0	16	16	29	29
	2009	7	7	5	5	4	4	2	2	0	0	1	1	19	19	38	38
	2010	9	13	1	1	3	3	0	0	0	0	0	0	29	29	42	46
	2011	3	6	0	0	1	1	1	1	0	0	0	0	17	17	22	25
CIL	2008	30	31	39	39	15	16	21	22	0	0	0	0	170	170	275	278
	2009	28	29	30	31	16	16	19	19	1	3	1	1	143	143	238	242
	2010	26	34	26	29	18	18	13	14	1	1	2	2	176	182	262	280
	2011	14	19	21	27	7	8	13	13	1	1	1	1	94	96	151	165

All figures are provisional & subject to reconciliation with DGMS.

f. Company-wise Place-wise Fatal Accidents in last 3 years and the current year (Up to 31.8.2011)

Company	Underground				Opencast				Surface				Total			
	2008	2009	2010	2011	2008	2009	2010	2011	2008	2009	2010	2011	2008	2009	2010	2011
BCCL	8	5	2	2	2	4	4	3	1	4	1	0	11	13	7	5
CCL	0	1	1	1	2	3	6	3	2	2	1	1	4	6	8	5
ECL	5	6	5	3	2	2	6	2	4	0	1	1	11	8	12	6
MCL	1	0	0	0	2	3	2	0	1	0	0	3	4	3	2	3
NCL	0	0	0	0	6	3	9	2	0	0	2	1	6	3	11	3
NEC	1	0	0	0	1	0	1	2	0	0	0	0	2	0	1	2
SECL	6	4	15	3	3	6	3	2	2	0	2	1	11	10	20	6
WCL	6	7	5	2	2	1	6	1	3	0	0	1	11	8	11	4
CIL	27	25	28	11	20	20	37	15	13	10	7	8	60	51	72	34

All figures are provisional & subject to reconciliation with DGMS.

g. Company-wise Place-wise Fatalities in last 3 years and the current year

(Up to 31.8.2011)

Company	Underground				Opencast				Surface				Total			
	2008	2009	2010	2011	2008	2009	2010	2011	2008	2009	2010	2011	2008	2009	2010	2011
BCCL	8	7	2	3	2	6	4	3	1	4	1	0	11	17	7	6
CCL	0	1	2	1	2	3	7	3	2	2	1	1	4	6	10	5
ECL	5	7	5	3	2	2	6	2	4	0	1	1	11	9	12	6
MCL	1	0	0	0	2	3	2	0	1	0	0	3	4	3	2	3
NCL	0	0	0	0	10	3	9	2	0	0	2	1	10	3	11	3
NEC	5	0	0	0	2	0	1	2	0	0	0	0	7	0	1	2
SECL	7	4	28	3	3	6	3	2	2	0	2	1	12	10	33	6
WCL	8	8	8	2	2	2	6	1	3	0	0	1	13	10	14	4
CIL	34	29	45	12	25	23	38	15	13	10	7	8	72	58	90	35

All figures are provisional & subject to reconciliation with DGMS.

h. Company-wise Place-wise Rate of Fatalities per MT of coal production & 3 Lac Manshifts deployed in last 3 years and the current year (Up to 31.8.2011)

Company	Per M.Te								Per 3 Lac Manshifts							
	Underground				Opencast				Underground				Opencast			
	8002	6002	0102	1102	8002	6002	0102	1102	8002	6002	0102	1102	8002	6002	0102	1102
BCCL	1.47	1.47	0.54	1.17	0.11	0.34	0.20	0.18	0.29	0.29	0.06	0.14	0.20	0.61	0.36	0.34
CCL	0.00	0.49	2.25	1.30	0.05	0.07	0.15	0.13	0.00	0.08	0.23	0.13	0.14	0.21	0.30	0.26
ECL	0.58	0.81	0.80	0.62	0.13	0.13	0.26	0.20	0.11	0.16	0.11	0.08	0.30	0.30	0.62	0.48
MCL	0.48	0.00	0.00	0.00	0.02	0.01	0.02	0.05	0.22	0.00	0.00	0.00	0.27	0.14	0.20	0.48
NCL	0.00	0.00	0.00	0.00	0.18	0.07	0.17	0.07	0.00	0.00	0.00	0.00	0.90	0.36	0.88	0.34
NEC	51.29	0.00	0.00	0.00	2.24	0.00	0.94	3.13	4.23	0.00	0.00	0.00	2.57	0.00	0.87	2.73
SECL	0.42	0.24	1.70	0.36	0.04	0.07	0.04	0.03	0.19	0.11	0.66	0.14	0.36	0.60	0.24	0.19
WCL	0.83	0.93	0.89	0.35	0.06	0.06	0.17	0.09	0.36	0.41	0.30	0.12	0.25	0.25	0.21	0.11
CIL	0.76	0.65	1.18	0.49	0.09	0.08	0.11	0.09	0.23	0.20	0.27	0.11	0.38	0.35	0.36	0.29

All figures are provisional & subject to reconciliation with DGMS.

i. Company-wise Place-wise Rate of Serious Injuries in last 3 years and the current year (Up to 31.8.2011)

Company	Per M.Te								Per 3 Lac Manshifts							
	Underground				Opencast				Underground				Opencast			
	2008	2009	2010	2011	2008	2009	2010	2011	2008	2009	2010	2011	2008	2009	2010	2011
BCCL	5.33	3.86	14.95	11.72	0.39	0.78	0.24	0.24	1.06	0.76	1.67	1.40	0.72	1.43	0.44	0.46
CCL	3.92	0.49	0.75	5.18	0.12	0.02	0.21	0.13	0.67	0.08	0.08	0.50	0.35	0.07	0.42	0.26
ECL	9.96	9.73	10.81	8.50	0.53	0.60	0.30	0.26	1.96	1.92	1.45	1.15	1.20	1.35	0.73	0.65
MCL	0.48	1.94	0.92	1.96	0.02	0.02	0.04	0.03	0.22	0.88	0.37	0.82	0.27	0.27	0.40	0.32
NCL	0.00	0.00	0.00	0.00	0.13	0.04	0.17	0.19	0.00	0.00	0.00	0.00	0.63	0.18	0.88	0.90
NEC	143.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SECL	2.57	1.79	2.75	2.41	0.09	0.03	0.11	0.20	1.16	0.81	1.08	0.96	0.85	0.24	0.60	1.23
WCL	1.76	3.11	3.57	2.81	0.25	0.09	0.40	0.38	0.77	1.35	1.20	0.93	1.02	0.38	0.50	0.50
CIL	4.43	3.81	5.36	4.55	0.15	0.11	0.16	0.17	1.34	1.15	1.22	1.05	0.67	0.50	0.54	0.59

All figures are provisional & subject to reconciliation with DGMS.

Company-wise details of contract workers killed during 2008-11

Owner	Year	Fatalities		
		Contract Employee	Other Employee	Total
Bharat Coking Coal Ltd.	2008	1	10	11
	2009	2	16	18
	2010	4	3	7
	2011	0	6	6
Central Coalfields Ltd.	2008	0	4	4
	2009	1	5	6
	2010	3	7	10
	2011	0	5	5
Eastern Coalfields Ltd.	2008	1	10	11
	2009	1	8	9
	2010	4	8	12
	2011	2	3	5
Mahanadi Coalfields Ltd.	2008	1	3	4
	2009	3	0	3
	2010	1	1	2
	2011	3	0	3
Northern Coalfields Ltd.	2008	1	9	10
	2009	1	3	4
	2010	6	5	11
	2011	2	1	3
North Eastern Coalfields	2008	2	5	7
	2009	0	0	0
	2010	0	1	1
	2011	1	1	2
South Eastern Coalfields Ltd.	2008	3	9	12
	2009	1	8	9
	2010	5	28	33
	2011	2	4	6
Western Coalfields Ltd.	2008	4	9	13
	2009	1	12	13
	2010	2	12	14
	2011	2	2	4
Coal India Limited	2008	13	59	72
	2009	10	52	62
	2010	25	65	90
	2011	12	23	35
Gujarat Mineral Development Corpn. Ltd.	2008	0	2	2
	2009	0	1	1
	2010	0	0	0
	2011	0	0	0
Indian Iron & Steel Co. Ltd.	2008	0	0	0
	2009	0	0	0
	2010	0	3	3
	2011	0	1	1
Neyveli Lignite Corp. Ltd.	2008	2	0	2
	2009	1	2	3
	2010	2	1	3
	2011	1	0	1
Singareni Collieries Co. Ltd.	2008	5	9	14
	2009	3	17	20
	2010	1	12	13
	2011	1	4	5
Tata Iron & Steel Co. Ltd.	2008	0	0	0
	2009	0	3	3

	2010	0	4	4
	2011	0	1	1
Gujarat Industries Power Company Limited	2008	0	0	0
	2009	0	0	0
	2010	0	0	0
	2011	0	0	0
Gujarat Heavy Chemical Ltd.	2008	0	1	1
	2009	0	0	0
	2010	0	0	0
	2011	0	0	0
Arunachal Pradesh Mineral Dev. & Trading Co.	2008	0	0	0
	2009	0	1	1
	2010	0	0	0
	2011	0	0	0
Integrated Coal Mining Ltd.	2008	0	0	0
	2009	0	0	0
	2010	0	1	1
	2011	0	0	0
M/s Monnet Ispat & Energy Ltd.	2008	1	0	1
	2009	1	0	1
	2010	0	0	0
	2011	0	0	0
M/s Jaiswal Neco Industries Ltd.	2008	1	0	1
	2009	0	0	0
	2010	0	0	0
	2011	0	0	0

3. NEYVELI LIGNITE CORPORATION (NLC)

a. Safety Statistics for last 3 Years and the current year (Up to July 2011)

Sl. No	Parameters	2008	2009	2010	2011
1	Fatal accidents	2	3	3	1
2	Fatalities	2	3	3	1
3	Serious accidents	3	8	4	2
4	Serious injuries	3	9	5	2
5	Fatality rate per Million tonnes of coal production	0.10	0.13	0.13	0.08
6	Fatality rate per 3 Lakh man shifts deployed	0.14	0.21	0.21	0.14
7	Serious injury rate per Million tonnes of Coal Production	0.15	0.39	0.22	0.15
8	Serious injury rate 3 lakhs man shift deployed	0.21	0.62	0.35	0.27

b. Cause wise Break-up

YEAR	Roof fall/Side fall		Haulage, Winding, Conveyor		Trucks, Dumpers		Non Transport M/C		Explosives		Electricity		Others		Total	
	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F
2008	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2
2009	-	-	-	-	-	-	1	1	-	-	1	1	1	1	3	3
2010	-	-	-	-	1	1	-	1	-	-	-	-	1	1	3	3
2011	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1

A - Accident F - Fatality

Safety statistics between 34th and 35th meeting (23.12.2010 to 31.7.2011)

SI No	Parameters	Numbers
1	Number of fatal accidents	1
2	Number of fatality	1
3	Number of serious accidents	2
4	Number of serious injuries	2

4. THE SINGARENI COLLIERIES COMPANY LIMITED (SCCL)

a. Safety statistics for last 3 years and current year (Up to 31.7.2011)

SI No	Parameters	2008	2009	2010	2011
1	Fatal Accidents	12	17	10	05
2	Fatalities	13	21	12	05
3	Serious Accidents	427	405	302	190
4	Serious Injuries	429	410	312	190
5	Fatality rate per Mt. Of Coal Production	0.30	0.43	0.24	0.16
6	Fatality rate per 3 lakh manshifts deployed	0.26	0.42	0.24	0.21
7	Serious Injury rate per Mt. of Coal production	9.92	8.48	6.21	6.23
8	Serious Injury rate per 3 lakh manshifts deployed	8.51	8.28	6.36	6.71

b. Details of fatal and serious accidents in between 34th meeting and 35th meeting

Sl. No.	Parameters	Number
1	No. of Fatal accidents	5
2	No. of fatalities	5
3	No. of Serious accidents	199
4	No. of Serious injuries	199

c. Place-wise break-up for last 3 years and current year (Up to 31.7.2011)

Year	Underground		Opencast		Surface		Total	
	Accident	Fatality	Accident	Fatality	Accident	Fatality	Accident	Fatality
2008	4	4	5	6	3	3	12	13
2009	11	15	6	6	-	-	17	21
2010	7	8	1	1	2	3	10	12
2011	3	3	1	1	1	1	5	5

d. Cause-wise Fatal accidents & Fatalities during last 3 years and current year (Up to 31.7.2011)

Company	Year	Roof Fall/ side fall		Haulage, Winding,		Trucks, Dumpers		Non-Transport		Explosives		Electricity		Others		Total	
		A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F
		S	2008	3	3	1	1	3	4	1	1	-	-	1	1	3	3
C	2009	7	11	4	4	5	5	-	-	-	-	-	-	1	1	17	21
C	2010	3	3	5	6	1	2	-	-	-	-	1	1	-	-	10	12
L	2011	2	2	1	1	1	1	-	-	-	-	-	-	1	1	5	5

A = Accident F = Fatality.

5 DAMODAR VALLEY CORPORATION (DVC)

Sl. No.	Parameters	2008	2009	2010	2011 (As on date)
1.	Fatal accidents	NIL			
2.	Fatalities				
3.	Serious accidents				

4.	Serious injuries	
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6. GUJARAT MINERAL DEVELOPMENT CORPORATION (GMDC)

Sr. No.	Parameters	2008	2009	2010	2011 (Up to July)
1.	Fatal Accidents	02	01	Nil	
2.	Fatalities	02	01		
3.	Serious accidents	03	01		
4.	Serious Injuries	03	01		
5.	Fatality rate per Mt. of coal production	0.22	0.122		
6.	Fatality rate per 3 lakh manshifts deployed	1.1	0.432		
6(a)	Fatality rate per 3 lakh manshift deployed (including consumers truck drivers / helpers)	0.45	0.240		
7.	Serious injury rate per mt. of coal production	0.34	0.122		
8.	Serious injury rate 3 lakh manshifts deployed	1.65	0.432		
6(a)	Serious inquiry rate per 3 lakh manshift deployed (including consumers truck drivers / helpers)	0.68	0.240		

7. TATA Steel (West Bokaro Division)

A. Accidents Statistics for Last 3 Years and current year (up to September 2010)

Sl. No.	Parameters	2008	2009	2010	2011
1.	Fatal Accidents	Nil			
2.	Fatalities	Nil			
3.	Serious Accidents	4	Nil	Nil	1
4.	Serious Injuries	4	Nil	Nil	1
5.	Fatality rate per Mt. of coal production	Nil	Nil	Nil	
6.	Fatality rate per 3 lakh man shifts deployed	Nil			
7.	Serious injury rate per Mt. of coal production	0.701	Nil	Nil	0.304
8.	Serious injury rate 3 lakh man shifts deployed.	0.909	Nil	Nil	0.331

B. Cause wise fatalities

Year	Roof fall/ side fall		Haulage, Winding, Conveyor		Others		Total	
	A	F	A	F	A	F	A	F
2008	NIL							
2009								
2010								
2011								

C. Cause wise serious injuries

Year	Roof fall/ Side fall		Haulage, Winding, Conveyor		Others		Total	
	Accidents	Injury	Accidents	Injury	Accidents	Injury	Accidents	Injury
2008	0	0	0	0	0	4	0	4
2009	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	1
2011	0	0	0	0	0	1	0	1

8. BENGAL EMTA COAL MINE LTD (BECML)

Sl. No.	Parameters	2008	2009	2010	2011
1.	Fatal accidents	Nil	Nil	Nil	Nil
2.	Fatalities	Nil	Nil	Nil	Nil
3.	Serious accidents	Nil	01	01	01
4.	Serious injuries	Nil	01	01	01

9. JINDAL STEEL & POWER LIMITED (JSPL)

Sl. No.	Parameters	2008	2009	2010	2011
1	Fatal accidents	Nil	1	Nil	Nil
2	Serious accidents	Nil	1	Nil	Nil

10. GUJARAT INDUSTRIES POWER COMPANY LTD. (GIPCL)

S. No	Parameters	2008	2009	2010	2011
1	Fatal Accidents	Nil	Nil	Nil	
2	Fatalities	Nil	Nil		
3	Serious Accidents	1	Nil		
4	Serious Injuries	1	Nil		
5	Fatality rate per Mt. of coal production	Nil	NIL		
6	Fatality rate per 3 lakh man shifts deployed	Nil	NIL		
7	Serious Injury rate per Mt of coal production	0.76	Nil		
8	Serious Injury rate per 3 lakh man shifts deployed	17.71	Nil		

11 INTEGRATED COAL MINING LIMITED (ICML)

Sl. No.	Parameters	2008	2009	2010	2011
1.	Fatal accidents	Nil		1	Nil
2.	Fatalities			1	
3.	Serious accidents			Nil	
4.	Serious injuries			Nil	

12. RAJASTHAN STATE MINES & MINERALS LTD. (RSMM)

Sl. No.	Parameters	2008	2009	2010	2011
1.	Fatal accidents	NIL			
2..	Serious accidents				

13. JHARKHAND STATE MINERAL DEVELOPMENT CORPORATION LIMITED (JSMDCL)

Sl No.	Parameters	2008	2009	2010	2011
1.	Fatal accidents	NIL			
2.	Fatalities				
3.	Serious accidents				
4.	Serious injuries				

14 STEEL AUTHORITY OF INDIA LTD. (SAIL-ISP)

Sl. No.	Parameters	2008	2009	2010	2011
1.	Fatal Accidents	NIL	NIL	1	1
2.	Fatalities	NIL	NIL	1	1
3.	Serious Accidents	08	03	2	1
4.	Serious Injuries	08	03	2	1

ITEM NO –V

Analysis of Major Accidents that Occurred During Recent Past

COAL INDIA LIMITED (CIL) / NLC / SCCL

No Major Accident occurred in any of these companies during the last one year.

ITEM NO.: VI

Risk Assessment & Management in Coal India Limited

(i) Nos of mines covered: Risks assessment in coal mines is on going continuous process. Risk assessments have been done in all mines of CIL and safety management plan prepared accordingly.

(ii) Major activities completed:

The major activities, as per Safety Management Plan based on identified risks associated with specific mines are being completed and taken care of by concerned mine management.

For UG Mines:

- a. Strata Control Management
- b. Fire / Spontaneous Management
- c. In-rush of water
- d. UG Transport
- e. Gas Management

For Opencast Management:

1. Mitigating risks associated with HEMM
2. Lighting arrangement
3. Slope Stability of bench & dump
4. Risks associated with use of electricity
5. Use of bulk explosives
6. Safety of contractor's worker

(iii) Action Taken: All necessary actions have been taken on the basis Safety Management Plan. Further, CIL has taken action for improving the Quality Risk Assessment based on Safety Management Plan through imparting training to the field executives on the subject by the trainers who undergone training at Australia by SIMPTARS.

The training Schedules are as follows:

(A) Training Programme on "Risk Management-OC Mines" by SIMTARS Accredited Executives of S&R Division,

Trainer: (1) Sri Md Sabir, Sr Manager (Mining) (2) Sri K B Chowdhury, Sr Manager (Mining) (3) Sri N. Mahanta Sr Manager (Mining)

Month & Year	Period		Course	Com-pany	Area with No of Mines to be covered	No. of Mines	No. of parti-cipants	Course coordinator/ Facilitator
	From	To						
July 11	04.07.11	07.07.11	Risk Management-1 st Phase (completed)	WCL	Chandrapur Area(4 OC Mines) & Wani Area(6 OC Mines)	10	23	Sri P Deshmukh, ISO, WCL
August 11	16.08.11	18.08.11	Risk Management-2 nd Phase (Completed)	WCL	Chandrapur Area(4 OC Mines) & Wani Area(6 OC Mines)	10	23	One Officer from ISO, WCL
September 11	05.09.11	08.09.11	Risk Management-1 st Phase	WCL	Ballarpur Area (5-OC mines) & Wani North	10	30	One Officer from ISO, WCL,& SECL

			(Completed)	SECL	Area (5 OC mines) Gevra, Dipka	2	16	
	12.09.11	15.09.11	Risk Management-1 st Phase (Completed)	MCL	Kanhia Area (1 OC) Lingraj Area (1 OC) Jagannath Area(3 OC), Bharatpur Area (2 OC) & Balram Area(2 OC)	9	27	One Officer from ISO, MCL & SECL
	13.9.11	16.9.11		SECL	Bhatgaon Area (3 OC)	3	24	
	17.09.11	20.09.11	Risk Management-1 st Phase	MCL	IB Valley Area (2 OC), Lakhanpur Area(3 OC), & Basundhara Area (02 OC mines)	7	21	One Officer from ISO, MCL
	20.9.11	23.9.11	(Completed)	SECL	Raigarh Area (2OC)	2	16	SECL
	28.09.11	30.09.11	Risk Management-2 nd Phase	MCL	Kanhia Area (1 OC), Lingraj Area (1 OC), Jagannath Area(3 OC), Bharatpur Area (2 OC) & Balram Area(2 OC)	9	27	One Officer from ISO, MCL
	26.9.11	29.9.11		SECL	Kusmuda & Korba	3	24	SECL
October 11	10.10.11	12.10.11	Risk Management-2 nd Phase	WCL	Ballarpur Area (5 OC mines) & Wani North Area (5 OC mines)	10	30	One Officer from ISO, WCL
	17.10.11	20.10.11	Risk Management-1 st Phase	WCL	Nagpur Area (3 OC mines), Umrer Area (2 OC mines) & Majri Area (6 OC mines)	11	30	One Officer from ISO, WCL
	31.10.11	03.11.11	Risk Management-1 st Phase	WCL	Pench Area(6 OC mines) & Kanhan Area (3 OC mines).	9	27	One Officer from ISO, WCL
November 11	07.11.11	09.11.11	Risk Management-2 nd Phase		IB Valley Area (2 OC mines), Lakhanpur Area(3 OC mines), & Basundhara Area (02 OC mines)	7	21	One Officer from ISO, MCL
	14.11.11	16.11.11	Risk Management-2 nd Phase	WCL	Nagpur Area (3 OC mines), Umrer Area (2 OC mines) & Majri Area (6 OC mines)	11	30	One Officer from ISO, WCL
	21.11.11	23.11.11	Risk Management-2 nd Phase	WCL	Pench Area(6 OC mines) & Kanhan Area (3 OC mines).	9	27	One Officer from ISO, WCL

December 11	05.12.11	07.12.11	Safe Management of Surface Transport & Slope Stability	WCL	Chandrapur Area(4 OC Mines) & Wani Area(6 OC Mines)	10	23	One Officer from ISO, WCL
	12.12.11	14.12.11	Safe Management of Surface Transport & Slope Stability	WCL	Ballarpur Area (5 OC mines) & Wani North Area (5 OC mines)	10	30	One Officer from ISO, WCL
	19.12.11	21.12.11	Safe Management of Surface Transport & Slope Stability	MCL	Kanhia Area (1 OC mine), Lingraj Area (1 OC mine), Jagannath Area(3 OC mines), Bharatpur Area (2 OC mines) & Balram Area(2 OC mines)	9	27	One Officer from ISO, MCL
	26.12.11	28.12.11	Safe Management of Surface Transport & Slope Stability	MCL	IB Valley Area (2 OC mines), Lakhanpur Area(3 OC mines), & Basundhara Area (02 OC mines)	7	21	One Officer from ISO, MCL

(B) Training Programme on “Risk Management-UC Mines” by SIMTARS Accredited Executives of S&R Division,

Trainer: D Sarkar, Sr. Manager (Mining), CIL, B Das, Sr. Manager (Mining), CIL and C S Singh, Sr. Manager (Mining), CIL

Programme Schedule

Month	Company / Area(s) to be covered	Date		Number of mines	No. of executives to be trained	Training Centre (proposed)	INVIGILATOR / LOGISTIC PROVIDER
August, 2011	MCL, Talcher Area (1 st Phase) (Completed)	9.8.11	12.8.11	4	12	Talcher	ISO, MCL
	WCL, Kanhan Area (1 st Phase) (Completed)	23.8.11	26.8.11	8	24	Kanhan	ISO, WCL
September, 2011	MCL, Orient Area (1 st Phase) (Completed)	8.9.11	11.9.11	5	15	Orient	ISO, MCL
	WCL, Patharkhera Area (1 st Phase)	19.9.11	22.9.11	8	24	Patharkhera	ISO, WCL
	SECL, Korba Area	28.9.11	1.10.11	8	24	Korba	ISO, SECL

	(1st Phase)						
October, 2011	WCL, Pench Area (1 st Phase)	17.10.11	20.10.11	8	24	Pench	ISO, WCL
	WCL, Nagpur Area (2 nd Phase)	21.10.11	22.10.11	8	24	Saoner	ISO, WCL
	MCL, Talcher Area (2nd Phase)	28.10.11	29.10.11	4	12	Talcher	ISO, MCL
November, 2011	SECL, Bhatgaon (1st Phase)	02.11.11	05.11.11	5	15	Bhatgaon	ISO, SECL
	MCL, Orient Area (2 nd Phase)	11.11.11	12.11.11	5	15	Orient	ISO, MCL
	WCL, Chandrapur Area (1 st Phase)	24.11.11	27.11.11	6	18	Chandrapur	ISO, WCL
December, 2011	WCL, Majri Area (1 st Phase)	08.12.11	11.12.11	4	12	Majri	ISO, WCL
	WCL, Kanhan Area (2 nd Phase)	19.12.11	20.12.11	8	24	Pathakhera	ISO,WCL
	WCL, Pench Area (2 nd Phase)	22.12.11	23.12.11	8	24	Pench	ISO,WCL
	SECL, Korba Area (2nd Phase)	27.12.11	28.12.11	8	24	Korba	ISO, SECL

NEYVELI LIGNITE CORPORATION (NLC)

The Risk Assessment and Safety Audit for NLC Mine were carried out in the year 2003 and again during the year 2007 by accredited External Agency. Action is taken to call for tenders for carrying out the work during 2011.

(i) Number of Mines Covered.

The number of Mines covered for carrying out the Risk Assessment and Safety Audit are Mine-I and Mine-II

(ii) Major activities completed

- a) In respect of above study, a working document 'Safety Management Plan had been brought out and distributed to the operation / Maintenance areas of NLC Mines and recommendations are being implemented.
- b) A well laid Emergency Preparedness Plan / Pre Monsoon Action Plan is being prepared for every Mine every year to take care of any emergency situation.
- c) NLC has obtained certification for all the Mines as under and the stipulated norms in the certifications are being maintained.
 - Quality Management System ISO 9001: 2000.
 - Environment Management System ISO 14001: 2004.
 - Occupational Health and Safety Assessment Series – OSHAS 18001: 1999.

(iii) Action Taken

- i. Area wise responsibility with priority to Safety is being enforced at all Mine Operational / Maintenance Activities for ensuring specific site supervision.

- ii. All-important operation / maintenance of the 'Specialized Mining Equipments' have formulated / Modeled / Codified Safe Work Practices, approved by DGMS and the same is being followed in all spheres of activities.
- iii. Daily / Regular / Periodical Maintenance check lists for the "Specialized Mining Equipments" had been prepared and enforced for strict compliance.
- iv. Inter Unit Safety Assessments are being carried out for every quarter to assess safety standards maintained as per statute.
- v. Systematic in-depth Accident Analysis is being done and counseling of near miss / Serious Accident Victims is being done at NLC for accident prevention / to avert recurrence of accidents.
- vi. Commitment on inculcating Safety Awareness by way of imparting adequate / need based training with new training modules to all employees and the Compulsory Training for all categories of employees, including the contract employees before their deployment in Shop Floor and in their assigned working areas. In addition to the above work related specific job training / refresher training are also being imparted to all categories of employees.
- vii. Safety Status / Safety Performance of every activity is being monitored / reviewed under the statutory framework.
- viii. Continuous monitoring of behavioral sense / attitude / commitment of employees towards Safety is being done.

THE SINGARENI COLLIERIES COMPANY LIMITED (SCCL)

a. No. of mines covered b. Major activities completed & c. Action taken.

- Out of 50 mines in SCCL, there are 34 Underground mines, 16 opencast mines as on date.
- Risk Assessment and Management Plan (RAMP) are prepared for all the mines.
- All major activities are completed.
- Monthly and quarterly meetings are being held by the concerned committee. The RAMP is being up dated accordingly on the recommendations of the committee.
- Near miss cases are analysed thoroughly and suitable remedial measure taken by the concerned.

Rajasthan State Mines & Minerals Limited: Risk assessment and management is a regular process and management initiatives are being taken up from time to time.

GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED (GMDC)

The major activities of Risk Assessment at all lignite mines has been done in accordance with the guidelines issued by the DGMS through Circular in 2002, Risk analysis is being implemented in all lignite mines of GMDC. Where it has been done primarily by the Mine Officials concerned who are well connected with the site situation and further it has been sub-divided department-wise viz. Mining, Mechanical, Electrical, Maintenance etc. so that the situation can be dealt with more specifically.

Likewise, the Risk is assessed and the solution / remedial measures are being implemented and managed at all lignite mines of GMDC. Remedial measures are revived from time to time at all lignite mines. All lignite mines gives the briefings of Risk Assessment and Managements to the persons employed in the mine.

Jharkhand State Mineral Development Corporation Ltd (JSMDC)

Assessment statutory manpower/personnel, assessment of mine lighting, assessment of Haul Road and dump yard in the mines has been done.

High Mast lights (fixed and portable) have been provided and installed. General conditions of Haul Road and dump yard in the mines have been improved. Fencing at the mines has been provided.

Tata Steel Ltd.

No. of Mines Covered - Risk Assessment Methodology of OHSAS-18001 – 2007 version (Occupational Health & Safety Assessment Series) has been adopted in West Bokaro Division including all OC Mines.

Major activities completed and action taken - Critical areas and critical activities were identified. Hazards associated with them were evaluated and action plans drawn to make safe the activities. Actions have been taken in the areas of fall of persons, Operation and Maintenance of HEMM, Fly rock, Belt Conveyor, Dump yard, as these were identified as most in need of risk reduction.

Jindal Steel & Power Ltd. :

Risk Assessment and Management of mines is done under the guidance of Mr. T.K. Mozumdar, Ex. Dy. DGMS & Safety management system is developed & being implemented.

Gujarat Industries Power Company Limited

Risk Management plan is under implementation with an aim to achieve zero accident & incident free in the mine and is reviewed periodically.

Bengal Emta Coal Mines Limited

Number of mine covered – One

Major Activities completed:

- (a) The vulnerability and consequence of transport of coal and OB along the haul roads of both blocks operated in the mine.
- (b) Vulnerabilities in the vacated illegal working adjacent to our leasehold in respect of blasting effects.
- (c) **Action taken:**
 - (a) Rigorous maintenance of the haul roads.
 - (b) Regular closing of illegal mine openings with assistance from local administration.
 - (c) Regular pre-blasting checks to ensure evacuations of all nearby illegal mine pits.
 - (d) Proper warning by sirens, hooters and also by loud speakers.

STEEL AUTHORITY OF INDIA LIMITED (IISCO STEEL PLANT)

- (i) **No. of Mine covered:** - U/G 4 No. & OCM 5 No.
- (ii) **Major activities completed:** - We have organized a seminar in Jitpur colliery on 24/07/2011 and detailed discussion was done regarding Risk Assessment and Management.
- (iii) **Action taken:** Review of Safety Management Plan is done on regular basis and required action is being taken accordingly.

INTEGRATED COAL MINES LIMITED (ICML)

No of mines covered: One (Sarshatali Opencast Coal Mine)

Major activities completed: (i) Eleven Task oriented groups formed (ii) Risk analysis programme is undertaken.

Identification of hazards – Prioritisation – Control measures (existing & revised) prepared and implemented.

Action taken: (i) Regular monitoring is being done (ii) Continuous up gradation of the risk management plan is being done as necessary.

ITEM NO. VII
Occupational health hazards and health risks

Ministry of Labour & Employment (MoL&E)

Certain issues need further consideration before the Ministry can proceed with the ratification ILO 176.

COAL INDIA LIMITED

STATUS OF HEALTH SERVICES

1.Strengthening of Health Services in Coal Companies: CIL Doctors engaged in Occupational Health Services are being trained regularly for skill development as per ILO Guidelines. During 2010 -11, training programmes were organized for CIL Doctors engaged in Occupational Health Services at Regional Occupational Health Centre (ROHC), Kolkata and National Institute of Occupational Health (NIOH), Ahmedabad where 27 Doctors attended.

2.Status of Medical practitioners in CIL:

Doctors on Roll as on			Added in 2010-11		Reduced in 01.04.2010 to 1.9.2011	
01.04.2010	01.04.11	01.09.11	Recruited	Joined	Superannuated	Resigned
1436	1434	1411	126	57	73	9

3. Infrastructure for Health Services:

	As on 01.04.11	As on 01.09.11
Hospital:	85 nos	85 nos
Dispensaries:	424 nos	424 nos
Ambulance:	668 nos	668 nos
Hospital Beds:	5835 nos	5835 nos

4. Infrastructure for Occupational Health Services:

	As on 01.04.11	As on 01.09.11
a. Occupational Health Centre:	68 nos	68nos
b. X ray M/C (300mA):	68 nos	68 nos
c. Spirometer:	65 nos	65 nos
d. Audiometers:	53 nos	53 nos
e. Pathology Lab:	68 nos	68 nos
f.ILO x-RAY set	69 nos	69 nos

4. Action taken on the recommendation of Xth National Conference on Safety in Mines:

- a. IME is mandatory for permanent, temporary and contractual workers.
- b. PME being done at three years interval for employees above 45 years of age.
- c. Measurement of blood sugar and 12 leads ECG are being done.
- d. Routine Urine testing
- e. Fasting and Post prandial blood sugar
- f. Hematological tests, TLC, DC, % of Haemoglobin, ESR
- g. Serum urea and creatinine, Lipid profile is being done where auto-analyzers are available.
- h. Audiometry in selected employees exposed to sound level more than 85dB

5. Computerization of records: NCL is the pioneer company to maintain computerized database for medical history of employees for their effective medical care. Computerized Database of Medical History of employees for effective medical care has been started in

some areas of WCL & SECL and under active consideration for implementation at CCL, ECL, MCL, BCCL & NEC

6. Coal Workers Pneumoconiosis (CWP) cases on roll:

As on 01.04.11	As on 01.09.11
30	29

Efforts made: Regular and continuous updating of skills of doctors & procurement of modern equipment is continuous process in CIL.

7. Note on the following Satatement: Due to heavy dust and coal dust in the mines and Colonies, peoples are suffering from morbid diseases like air bone and water bone diseases such as asthma and stomach diseases etc. They should be granted special leave like other stipulated diseases provided they are to continue treatment for more than six months.

NEYVELI LIGNITE CORPORATION (NLC):

A well established Department of Industrial Hygiene and Occupational Diseases (DIHOD) is functioning effectively with highly qualified and experienced medical professional in OHS – System. The Occupational Health Services is established at NLC and functioning since the year 1982 under the control of highly qualified and experienced Medical Professionals in Industrial Safety.

- ✓ Both Initial and Periodical Medical Examination of Employees/Contract Workmen are conducted at the Industrial Medical Centre of NLC- GH as per the statute.
- ✓ PME for Miners (both Regular & Contract) are being conducted , as per recommendations of Xth Conference on Safety.

Occupational Health at NLC

- ✓ The Periodical study is being conducted to identify and to detect notified Occupational diseases due to Occupational Health Hazards (Dust / Vibration /Noise etc.)
- ✓ NIMH has conducted noise mapping, respirable dust survey and vibration test as a measure of environmental study in the year 2004, 2006, and 2007. The results observed are well within the permissible limits.
- ✓ In pursuance of protective and proactive operation, notified occupational diseases were not identified, so far, during Periodical Medical Examinations conducted.
- NLC has obtained the following certification for all the Mines and stipulated norms of certification are being maintained.
- ✓ Quality Managerial System (ISO 9001: 2000)
- ✓ Environment Management System (ISO 14001: 2004)
- ✓ Occupational Health and Safety Assessment Series (OHSAS 18001: 1999)

Singareni Collieries Company Limited (SCCL)

- All PME Centers have been equipped with required no. of medical appliances and personnel. Doctors, in charge of PME centers have been trained in occupational health. Due importance is given for detection of occupational diseases at early stages and all the workers are undergoing PME. Notified occupational diseases detected, if any, are being reported scrupulously.
 - Necessary steps are being taken to fill shortage of Doctors, Paramedical staff.
 - Occupational Diseases Board was constituted, regular meetings are held and its recommendations are followed/ implemented. All the doctors working in PME centers are trained in Occupational diseases.
 - Comprehensive health cards for each workman integrating their working conditions with their health profile are prepared. There are 10 PME centers.

- A study on occupational health management is conducted in SCCL by Ex-DMS (Medical) and report submitted thereupon was circulated among Area General Managers for implementation.
- Ratification of certain ILO conventions was done by GOI.
- SCCL has submitted for ratification of ILO 176.

DAMODAR VALLEY CORPORATION (DVC)

Arrangement of investigation and treatment of occupational health diseases have been made.

GUJARAT MINERAL DEVELOPMENT CORPORATION (GMDC)

In respect to prevent and monitor occupational health hazards, following steps are taken in our Organization:

1. For effective and regular dust suppression in mines, water sprinklers of 28 KL and 10 KL are used on haul roads and in mines.
2. For minimising the noise pollution; new equipments are deployed, old equipments phased out. Regular noise monitoring is being done.
3. For providing better illumination at all working places and haul roads; tower lightings are erected with adequate luminous efficiency. Regular lights survey is being done. Regular maintenance of mast lights is being practiced.
4. Regular IME and PME are being done in Mines to detect any occupational disease. Where we are not having company's hospital at site, the services are being outsourced.
5. No occupational disease has been reported or detected.
6. Recently National Institute of Miners health (NIMH), Nagpur; has been entrusted to carryout Periodical Medical Examinations & Initial Medical Examinations for all mine workers.

Tata Steel Limited (West Bokaro Division)

Periodical Medical Examination (PME)			First – Aid training for employees	
Year	Target	Achieved	Year	Achieved
2008	409	412	2008	116
2009	409	456	2009	78
2010	534	436	2010	94
2011	541	335 (Up to July 2011)	2011	67 (Up to July 2011)

Health awareness training programmes organized and no. of employees trained -

Year	No. of programmes organized	No. of employees trained
2008	39	768
2009	24	573
2010	16	484
2011	7	236 (Up to July 2011)

Notifiable diseases detected in employees during periodical medical examination from 2008 to 2011 (Up to 31.07.2011) → Nil.

Tata Steel Limited (Jharia Division)

In Jharia Division of Tata Steel Limited, we have one well-equipped OHS has been established in 1992 managed by one qualified occupational health specialist assisted by one radiologist and one general physician who are all trained in use of ILO classification for pneumoconiosis. Regular periodical medical examination is conducted by the OHS.

Bengal Emta Coal Mines Limited

Health service of this mine is covered by Medical Officer, alongwith paramedical staffs. A Super Speciality Hospital is also engaged for providing healthcare and periodic examination. The recommendations of 10th National Conference on Safety in mines are being followed. The details of the OHS are as under:

- i) Total number of employees recruited in 2010 (up to Sept.2010) – 21
- i) Total Number of employees done Initial Medical Examination (IME) – 21
- ii) Total No. of employees entitled for periodical medical examination (PME)-571
- iii) Investigation as per the recommendation of the 10th National Conference of Safety in Mines including PME was done for all the employees of 571.

JINDAL STEEL & POWER LIMITED (JSPL)

Their OSH centre is well equipped & no shortage of Doctors, Technicians & Paramedical Staff.

INTEGRATED COAL MINES LIMITED (ICML)

Matter of Occupational Disease is being given due attention and monitored. PME is done by outside agency consisting of well experienced experts, team of doctors. Most of the recommendations of 10th conference on safety in Mines regarding occupational health are compiled with.

ITEM NO. VIII
STATUS OF STATUTORY MANPOWER IN CIL

A. OVERMAN

Com- pany	Status as on 31.03.10			Status as on 01.08.11			Remarks
	Required	Available	Shortage	Required	Available	Shortage	
ECL	1180	1134	46	1119	1120	0	Proposed for fresh recruitment –20&30 departmental candidates in 2011-12
BCCL	944	830	114	955	731	224	Action to fill up is under process.
CCL	633	471	162	633	471	162	Interviewed for recruitment of 148 Nos was held in June' 11
NCL	378	274	104	463	279	184	Advertised for 80 nos
WCL	1083	963	126	983	951	32	Action to fill up is under process
SECL	1317	1139	178	1330	1082	248	Proposal for 106 departmental candidates for promotion in 2011-12
MCL	537	361	176	537	372	165	Recruited 11 Nos
NEC	52	41	11	49	38	11	Action to fill up is under process
CIL	6124	5213	917	6069	5046	1024	Action to fill up is under process

B. MINING SIRDAR

Com- pany	Status as on 31.03.10			Status as on 01.08.11			Remarks
	Required	Available	Shortage	Required	Available	Shortage	
ECL	1613	1259	354	1629	1131	498	Proposed for fresh recruitment – 100 in 2011-12
BCCL	1493	1253	240	1366	929	437	Action to fill up is under process
CCL	863	667	196	863	735	128	68 Nos joined recently & DPC for 15 Nos. done recently.
NCL	181	140	41	148	132	16	Advertised for 34 nos
WCL	1444	1218	226	1397	1220	177	Action to fill up is under process
SECL	2134	1973	161	2140	1983	157	Action to fill up is under process
MCL	556	332	224	556	429	127	Recruited 97 Nos.
NEC	119	106	13	108	103	05	Action to fill up is under process
CIL	8403	6948	1455	8207	6662	1547	Action to fill up is under process

C. SURVEYOR

Com-pany	Status as on 31.03.10			Status as on 01.08.11			Added
	Required	Available	Shortage	Required	Available	Shortage	
ECL	188	178	10	191	178	13	Proposed for fresh recruitment – 10 in 2011-12
BCCL	93	64	29	93	71	22	Action to fill up is under process
CCL	145	128	17	145	128	17	Promotion for 18 candidates is in process
NCL	44	36	8	47	43	4	Advertised for 10 nos
WCL	191	165	26	187	166	21	Action to fill up is under process
SECL	303	291	12	290	297	+7	Action to fill up is under process
MCL	68	58	10	81	74	7	Recruited 13 Nos.
NEC	10	8	2	10	08	02	Action to fill up is under process
CIL	1042	928	114	1015	896	79	35 nos added

Efforts made in filling up the shortage:

Training of departmental candidates and motivating to appear in competency examination is being done continually apart from open advertisement for recruitment. Subsidiary companies are regularly recruiting OM & MS but due to natural wastage the shortage is still persisting.

All the subsidiaries have plan to recruit OM & MS in 11-12 accordingly action has already been taken.

NEYVELI LIGNITE CORPORATION (NLC)

Category	Requirement as per 2008 GI by DDMS/Chennai	Existing	Surplus(+) / Shortfall (-)
Asst. Manager (1st Class/ 2nd Class)	130	112	(-) 17
Overman	223	42	(-) 181
Mining Sirdar	223	4	(-) 219
Surveyor	20	15	(-) 5

Appointment order would be issued shortly for 20 Nos. of Asst. Managers and necessary action is being initiated to fill up the shortfall of other Statutory personnel.

SINGARENI COLLIERIES COMPANY LIMITED (SCCL)

- Recruitment and promotion is a continuous process. This is being reviewed twice a year keeping in view of retirement/ resignation etc., and in addition to this process, recruitment also made as and when requirement arises to carryout mining operations safely. The requirement and existing strength of statutory manpower is furnished below:

Class/Category	Required as on 31.07.2011	Existing strength as on 31.07.2011
Asst. Manager (1 st Class)	351	400
Asst. Manager (2 nd Class)	470	429
Surveyors	192	170
Surveyor Trainees		14
OVERMEN & JMETS	1135	1059+123*
Mining Sirdar Certificate Holders	779	1312
Shot Firing Certificate Holders	1276	658
Total Mining Sirdar & Shot Firing ('C' & 'D')	2055	1970

Electrical Supervisors	336	304
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TATA STEEL (West Bokaro Division)

Category	Existing As on 31.7.11	Req. As on 31.7.11
Asst. Mgr. (1-st class)	04	05
Asst. Mgr. (2-nd class)	14	14
Over man	35	33
Mining Sirdar	24	27
Surveyor	04	04

GUJARAT INDUSTRIES POWER COMPANY LIMITED (GIPCL)

Category	Appointment made during 2010-11	Existing as on 31-03-2011	Requirement as on 31-03-2011	Existing strength as on 31-03-2010
Asst. Mgr. (1-st class)	NIL	1	2	1
Asst. Mgr. (2-nd class)	02	14	17	15
Over man	NIL	22	24	23
Mining Sirdar	N/A	N/A	N/A	N/A
Surveyor	1	2	2	3

BENGAL EMTA COAL MINES LIMITED

Category	Appointment made during 2010-11	Existing as on 30.04.2011	Requirements as on 31.03.2011	Surplus / Shortfall
Asst. Manager (1 st Class)	NIL	02	02	--
Asst. Manager (2 nd Class)	NIL	09	09	--
Over Man	03	20	18	+2
Mining Sirdar	01	12	09	+3
Surveyor	NIL	03	03	--

Jindal Steel & Power Limited (Jindal Open Cast Coal Mine # 1)

Category	Appointment made during Jan-10 To June-11	Existing as on 1.7.11	Requirement as on 01.07.2011	Shortage/Surplus as on 1.7.11
Asst Manager (1 st Class)	3	4	4	Nil
Asst Manager (2 nd Class)	3	10	9	+1
Overman	19	37	22	+15 -17 = -2
Mining Sirdar	2	5	22	
Surveyor	2	3	4	-1

GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED (GMDC)

Category	Appointment made during 2009-10	Existing as on 31.3.2011	Requirements as On 31.7.2011	Existing strength as on 31.07.2011
Asst. Manager (1 st Class)	3	18	03	18
Asst. Manager (II Class)	7	26	14	26
Overman / Foreman	-	55+3*	30	55+3*
Mining Sirdar / Mate	9	13	2	13
Surveyor	-	10	10	10

Note: 1. Special permission is obtained for appointment of Foreman in place of Overman and Mines Mate for Mining Sirdar in OB benches.

2. * Trainee overman has already completed U/G training and completed certificates are awaited.

To fulfill the shortage of Statutory Manpower, GMDC is making recruitment of Degree and Diploma Mining Engineers (First / Second Class Certificate holders), Surveyors and other statutory persons as per need. Whenever the persons holding statutory certificates are not available, GMDC recruits fresh Degree/Diploma holders and then make arrangements for their training to enable them to achieve competency. GMDC is publishing the advertisement on regular bases for recruitment of statutory Man Power on its web site and in news paper.

DAMODAR VALLEY CORPORATION (DVC)

There is no shortage of statutory manpower at our DVC Bermo Mines.

RSMM

Category	Appointment made during 2009-10	Requirements as on 31.3.2010	Existing strength as on 31.3.2010
Asst. Manager (1 st Class)	NIL	04	01
Asst. Manager (2 nd Class)	NIL	12	07
Over Man	01	22	07
Mining Sirdar	02	48	02
Surveyor	NIL	03	02

SAIL -ISP

Statutory Manpower	Requirement	Existing	Shortfall	Remarks
Manager	3	3	Nil	
Safety Officer	3	3	Nil	
Training Officer	2	2	Nil	
Colliery Engineer	3	3	Nil	
Ventilation Officer	3	3	Nil	
Overman	80	76	4	Recruitment is under progress through Written Test & Interview.
Mining Sirdar	106	97	10	

Jharkhand State Mineral Development Corporation Limited (JSMDCL)

Category	Requirement	Existing	Shortage
Mines Agent	1	1	Nil
Mines Manager	1	1	Nil
Safety Officer	1	1	Nil
Assistant Manager (1 st Class)	1	1	Nil
Assistant Manager (2 nd Class)	5	2	3*
Over Man	6	4	2*
Mining Sirdar	7	3	4*
Surveyor	2	2	Nil
Supervisor	1	1	Nil

*Appointment is in process.

INTEGRATED COAL MINES LIMITED (ICML)

Category	Existing as on 31.7.2011	Requirement as on 31.7.2011
Asst. Manager (1 st Class)	3	3
Asst. Manager (2 nd Class)	6	6
Over Man	21	21
Mining Sirdar	18	18
Surveyor	1	1
Surveyor	2	2
Engineer	1	1

ITEM NO: IX

Safety Budget and its utilization

COAL INDIA LIMITED (CIL)

2008-2009

(in ₹ Lakh)

Company	Budget		Expenditure	
	Capital	Revenue	Capital	Revenue
ECL	1385.00	14420.00	1400.60	9476.33
BCCL	2700.00	24481.63	1605.00	4948.54
CCL	790.00	1382.21	173.64	1239.12
NCL	95.50	4000.00	70.42	4109.00
WCL	200.00	8400.00	63.00	8000.00
SECL	400.00	13450.98	225.85	9620.49
MCL	357.00	*	267.24	4059.05
NEC	490.89	773.29	315.72	577.29
CIL	6418.39	66908.11	4121.47	41893.41

** Included within the Revenue Budget of the Area

2009-2010

(in ₹ Lakh)

Company	Budget		Expenditure	
	Capital	Revenue	Capital	Revenue
ECL	2006.90	15605.00	664.80	9330.00
BCCL	2700.00	31952.52	2102.35	24221.99
CCL	918.95	2028.91	76.72	1907.95
NCL	227.00	4000.00	32.35	1027.56
WCL	228.45	8800.00	61.00	7821.30
SECL	400.00	10292.62	426.67	9734.24
MCL	221.00	*	159.64	4420.60
NEC	345.50	203.50	180.52	200.00
CIL	7047.80	72882.55	3277.38	48929.36

** Included within the Revenue Budget of the Area

2010-2011

(in ₹ Lakh)

Company	Budget		Expenditure	
	Capital	Revenue	Capital	Revenue
ECL	3023.00	15495.00	1440.00	12092.00
CCL	722.58	2071.50	1305.45	1979.55
NCL	145.00	**	160.00	835.50
WCL	465.00	8800.00	167.00	8350.00
SECL	500.00	15122.88	349	*
BCCL	3590.00	29779.00	2001	*
MCL	350.00	**	250.00	4032.00
NEC	219.50	60.70	96.70	60.00
CIL	9015.08	71329.08	5769.15	27349.05

2011-2012

(in ₹ Lakh)

Company	Budget		Expenditure	
	Capital	Revenue	Capital	Revenue
ECL	8884.00	16734.00	-	-
CCL				
NCL	534.00	**	-	88.00
WCL	7049.00	8800.00	-	-
SECL				
BCCL				
MCL	650.00	**	-	400.00
NEC	116.03	228.26	-	-
CIL				

** Included within the Revenue Budget of the Area (Figs are provisional)

Neyveli Lignite Corporation (NLC)

Amount in ₹ Lakhs.

Year	Capital		Revenue	
	Budget	Actual Expr.	Budget	Actual Expr.
2008-'09	296.15	190.00	400.00	352.92
2009-'10	356.70	200.00	400.00	252.345
2010-'11	236.34	150.00	400.00	250.00
2011-12 up to July	368.00	About 90.00	400.00	About 75.00

Singareni Collieries Company Limited (SCCL)

- As the total funds for Capital and Revenue expenditure provided based on the requirement. No specific budget is prepared. Details of **actual expenditure incurred** are furnished below.

(Rs. In Lakhs)

YEAR	CAPITAL EXPENDITURE	REVENUE EXPENDITURE
2008-09	307	26,107.00
2009-10	79	43,568.60
2010-11	622	44,752.44
2011-12 up to July	176	17,571.90

DAMODAR VALLEY CORPORATION (DVC)

Sufficient budget provision is available for expenditure on safety and for procurement of safety items/equipments. The fund available in safety budget is properly utilized. No safety work has so far been hampered due to non - availability of Budget.

RAJASTHAN STATE MINES & MINERALS LTD

Year	Capital (Rs. Lakhs)		Revenue (Rs. Lakhs)	
	Budget	Actual Expr.	Budget	Actual Expr.
2007-08	Nil	Nil	35.50	64.00
2008-09	35.00	0.94	83.51	37.18
2009-10	43.00	Nil	21.00	41.91
2010-11	43.50	Nil	10.00	23.21

Gujarat Mineral Development Corporation Limited (GMDC)

Year	Capital A/C (₹ in lakhs)		Revenue A/C (₹ in lakhs)	
	Budget	Actual Expenditure	Budget	Actual Expenditure
2008-09	75	64.15	25	18.08
2009-10	75	47.64	30	23.24
2010-11	175	156.50	50	43.47
2011-12	175	14.05	50	22.53

Tata Steel (Jharia & West Bokaro Division)

There is no budgetary restriction on expenditure for safety. Whatever is necessary for safety is being spent without any limitation.

Jharkhand State Mineral Development Corporation Ltd. (JSMDC)

Year	Revenue Account (Rs.in Lakh)	
	Budget	Actual Expenditure
2007-08	3.00	3.00
2008-09	3.00	3.00
2009-10	7.00	7.00
2010-11	7.00	4.00

Bengal Emta Coal Mines Limited

₹ In Lakh

Year	Capital		Revenue	
	Budget	Actual Expenditure	Budget	Actual Expenditure
2008-09	125.00	120.00	75.00	65.00
2009-10	50.00	40.00	50.00	45.00
2010-11	50.00	47.00	50.00	41.00
2011-12	40.00	29.00	60.00	15.00

Jindal Steel & Power Limited (JSPL)

Year	Capital A/c		Revenue A/c	
	Budget (₹)	Actual Expend ₹	Budget (₹)	Actual Expend ₹
2008-09	No Limit on Expenditure on Safety	60 Lakh	No Limit on Expenditure on Safety	28 Lakh
2009-10		45 Lakh		26 Lakh
2010-11		32 Lakh		31 Lakh
2011-12		16.45*		28 Lakh*

* From Jan-11 To June-2011

Gujarat Industries Power Company Limited

Amount in ₹ Lacs

Year	Capital		Revenue	
	Budget	Actual Expenditure	Budget	Actual Expenditure
2008-09	85.20	80.50	88.20	75.50
2009-10	70.50	60.00	83.50	70.35
2010-11	200.00	171.5	283.38	172.74
2011-12	770.8	375.88	249.81	89.62

Figures for the year 2011 are upto 31-07-2011

SAIL – ISP

₹ in lakhs

Year	Capital		Revenue	
	Budget	Actual	Budget	Actual
2008-09	85.00	78.00	18.00	18.00
2009-10	61.00	60.25	40.00	24.64
2010-11	42.00	25.90	44.00	12.35
2011-12	52.00	3.18*	Not given	

*(up to June 2011)

Jharkhand State Mineral Development Corporation Limited

Figures in ₹ Lakhs

Year	Capital		Revenue	
	Budget	Actual	Budget	Actual
2007-08	NIL		3.00	3.00
2008-09			3.00	3.00
2009-10			7.00	7.00
2010-11			7.00	4.00

INTEGRATED COAL MINES LIMITED (ICML)

Figures in ₹ Lakhs

Year	Capital		Revenue	
	Budget	Actual	Budget	Actual
2008-09	Not Restricted	69.86	Not Restricted	216.76
2009-10		32.60		114.89
2010-11		86.00		136.80
2011-12 (Jan to July)		59.85		49.00

ITEM NO. X

Proposed Amendment of C M R/Coal Mine Act, 1952

MOC has already submitted it's comments on the following subject

- i) Draft Coal Mine Regulation – 2006
- ii) Proposed amendment of the Mines Act-1952 as mooted by MOLE.

COAL INDIA LIMITED

CIL has studied the implication of proposed Mines (Amendment) Bill, 2011 in details for coal industry and presented the CIL's views during the meeting with members of Standing Committee on Labour & Employment held on 10.06.2011 at Ranchi and subsequently submit an interim submission and reply of certain points raised during the meeting with Standing Committee on Labour & Employment held on 10.06.2011 at Ranchi on Mines (Amendment) Bill, 2011.

NEYVELI LIGNITE CORPORATION LIMITED (NLC)

The views of NLC Limited on the Draft Coal Mine Regulation – 2006 and the comments for the proposed Amendment to the Mines Act 1952 have already been sent to Ministry of Coal

THE SINGARENI COLLIERIES COMPANY LIMITED (SCCL)

After thorough deliberations in SCCL on the subject of draft Coal Mines Regulation Amendment (CMR-2006), it has been forwarded comments/ objections of SCCL for kind perusal and for incorporating the same in the final CMR-2006.

ITEM NO. XI

Additional points as suggested by Shri A.C. Patra, General Secretary, Orissa Coal Mines Labour Federation (HMS) and considered by the competent authority for inclusion in the 35th Meeting of Standing Committee on Safety in Coal Mines

No.	Points	ATR
1.	Monitoring of frequency of training to the supervisory staff with special references to risk assessment and behaviour based safety mainly for degree-III and fire mines. This apart the supervisors of different contractors working under CIL should also be given such type training to guide the workers under them because the contractor workers are very much prone to accident which may be seen from the accident statistics.	<p><u>CIL</u> All the subsidiary companies have arrangement for supervisors' development in their different training institutes. In these institutes special training is imparted for the mine where risk involvement is high i.e, in Degree III and Fiery Seam. SIMTARS trained persons conducted 10 Group Training Programme in areas of different subsidiaries since last two months and it is in progress.</p> <p><u>SCCL</u> There are no III degree gassy mines in SCCL. However, there are fire prone mines. Training is imparted to Executive and non-executive staff on fire risk. The detail of training given is furnished below.</p> <ol style="list-style-type: none"> a. Risk analysis and management- by Sri P.Dharma Rao, Retd.Dy.DGMS b. National level training course on "Behaviour based safety management" by National Safety Council, Mumbai was given to Sri KHN Gupta, SOM, 21 Inc.,Y D. c. Course on "Safety management and Risk assessment in mines" by Visweswaraya National institute of technology (VNIT), Nagpur to SE (SMMC) and Under managers. d. Program on "Mine fire gases & explosion, Mine environment management & Disaster control, Risk assessment and Safety" was conducted by DGMS, Dhanbad to C.Mgr., Dy.Mgr., Head Over men., Over men and Mining Sirdar. <p>Fire fighting training is imparted during refresher training programs.</p> <p><u>NLC</u> Not applicable to NLC Mines</p> <p><u>DVC</u> Arrangement for training to the Supervisory staff has been made. There are no Degree-III gassy mines and fire mines under DVC. We have only one opencast mines but adequate attention given to the arrangement of training to all workers employed in our mines.</p> <p><u>JSMDCL</u></p>

No.	Points	ATR
		<p>story of fire, and mine is not Degree III Gassy however, supervisors and workers working under contractor are being provided initial and refresher courses for their safe working in the mine.</p>
2.	<p>Matter to be taken with the State Government to provide sufficient land to increase the production from mines of MCL which are not achieving the target as the faces of most of the open cast mines of MCL has become vertical due to inadequate infrastructure.</p>	<p><u>CIL</u></p> <p>MCL has framed a Special Cell to deal with State Government for land acquisition. The subject matter is regularly being pursued at Directors' and CGMs' /GM's level. No instances of vertical faces have so far been reported which has been occurred due to non availability of land.</p>
3.	<p>Due to heavy dust and coal dust in the mines and Colonies, peoples are suffering from morbid diseases like air bone and water bone diseases such as asthma and stomach diseases etc. They should be granted special leave like other stipulated diseases provided they are to continue treatment for more than six months.</p>	<p><u>CIL</u></p> <p>Following major preventive actions are being taken to reduce the generation and propagation of Dust caused due to various mining activities measure in OC and UG mines</p> <ul style="list-style-type: none"> • Fixed sprinklers at different places. • Covering of conveyors and fitting of dust collectors all along the conveyor belt circuit as well as transfer points for effective collection of dust in addition to water spraying. • Effective ventilation of underground mine and cleaning of coal dust regularly and water spraying in drilling, cutting, loading and transporting. • Wet drilling mechanism in the drilling machine of O/C mine. • Water mist arranged at CHP, Coal washery transfer points and feeder breaker. • Creeper plantation around the mine to prevent propagation of dust. • All roadways and other working places either sprayed with water or chemically treated to prevent dust to be air-borne. • Grassland are being provided around the OC workings. • Plantation are being done in old dumping yards and other decoaled areas in OCMs to arrest dust. • Training are being imparted to develop overall awareness amongst the employees towards safe and hygienic operation. <p>Facilities for Diagnosis, Investigations and treatment for such ailments are available at Regional and Central Hospitals of various subsidiaries of CIL.</p>

No.	Points	ATR
		<p>Concentration of dust at none of the CIL colonies has caused any morbid disease in question. Hence the question of special leave does not arise.</p> <p><u>SCCL</u></p> <p>There are no people in mines and colonies suffering from morbid diseases like air borne and water borne diseases such as asthma and stomach diseases and cases treated beyond six months. As such grant of special leave does not arise.</p> <p>However, granting special leave for diseases such as stomach cancer (One person in the year 2010 and 2 persons during 2011), Lung cancer (4 persons during 2010 and 2 persons during 2011) and for tuberculosis(60 during 2010 and 38 persons during 2011) persons are granted special leave (upto July)</p> <p><u>NLC</u></p> <p>As far as NLC is concerned, Periodical Medical Examinations are being conducted for the employees working in the areas of heavy dust, lignite dust etc., to identify and to detect notified occupational diseases due to Occupation Health hazards like dust, vibration, noise etc. No occupational diseases were identified so far in NLC.</p> <p><u>DVC</u></p> <p>We have minimized the heavy dust and coal dust by dust suppression by water sprinklers and making green barrier of plants around our mines. Facility for treatment of all diseases has been provided by Damodar Valley Corporation for all its employees.</p> <p><u>JSMDCL</u></p> <p>We have developed infrastructures to suppress the air born dust and coal dust by providing water tankers for regular water spraying.</p>

4.	Adequate self rescuer should be provided to mine workers.	CIL				
		Status of Self Contained Self Rescuers is as under:				
		Company	Requirement	Existing	Procurement	Remarks/T ype/Life of different existing Self Rescuer
		ECL	19500	5000		
		BCCL	a) 13000 Nos (30 Min.) b) 1200 Nos. (60 Min.)	a)13000 Nos. b)1170 Nos.	NIL	a) Chemical Type Self Contained Oxygen generating self rescuer- 30 Min. & 60 Min. b) Life-10 Years
		CCL	12240	2784	2541 is under process	Oxy SRIC(SCSR) service life 30 minutes, carri ed life 5 yrs, stored life 10 yrs.
		WCL	22193	2254	18291Nos. is under process	Chemical Type Self Contained Oxygen generating self rescuer- 30 Min. b) Life-10 Years
		SECL	42896 Nos.	9896 Nos.	33000 Nos is under process for placement of order	a) Chemical Type Self Contained Oxygen generating self rescuer- 30 Min. Model-CI 30 b) Life-10 Years
		MCL	2706	1739	Nil	
NEC	400 Nos.	494 Nos.	NIL	a) Chemical Type Self Contained Oxygen generating self rescuer- 30 Min. Model- Raksha Kavach. b) Life-10 Years		

	<p><u>SCCL</u></p> <p>3,007 nos. of 30 minutes and 2,020nos. of 60 minutes Self contained Self rescuers are provided in the mines having fiery seams.</p> <p><u>NLC</u></p> <p>Not applicable to NLC, since NLC operates only Opencast Mines.</p> <p><u>JSMDCL</u></p> <p>Our mine is open cast working as such self resources are not required.</p>
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