

**AGENDA NOTE FOR  
45<sup>TH</sup> MEETING OF THE STANDING COMMITTEE ON SAFETY  
IN COAL MINES**

**On**

**05<sup>th</sup> JANUARY 2021**

**AT**

**NEW DELHI**



**सत्यमेव जयते**

**GOVERNMENT OF INDIA**

**MINISTRY OF COAL**

## 45<sup>th</sup> MEETING OF THE STANDING COMMITTEE ON SAFETY IN COAL MINES

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## In Memoriam

STANDING COMMITTEE ON SAFETY IN COAL MINES DEEPLY MOURNS ON THE SAD DEMISE OF THE FOLLOWING BELOVED WORKERS MARTYR OF COAL/LIGNITE COMPANIES AND PAY HOMAGE TO ALL THOSE WHO SACRIFICED THEIR PRECIOUS LIVES FOR THE CAUSE OF THE NATION DURING THE PERIOD BETWEEN THE 44<sup>TH</sup>(12.02.2020) AND THE 45<sup>TH</sup> (05.01.2021) MEETINGS OF THE STANDING COMMITTEE ON SAFETY IN COAL MINES

### 1. CIL

Sl No	Victim's Name and Designation	Accident Date	Mine & Area	Statutory Compensation (in Rs.)	Special Relief (Rs. 15 Lakhs)	Employment provided to
<b>ECL</b>						
1	Late Achhalal Kanu, Driller	24.02.20	Chapui Khas, Satgram Area	542240	Paid	Son
2	Late Suraj Nath Dusadh, Haulage Operator	25.03.20	New Kenda, Kenda Area	513320	Paid	Daughter
3	Late Rituraj Pandey, Driller	25.05.20	Parascole West Colliery, Kajora Area	677760	Paid	Son
4	Late Gopal Gope, Timber Mazdoor	27.10.20	Parascole East Colliery, Kajora Area	1199000	Paid	Wife
<b>BCCL</b>						
1	Late Sagar Kumar, Contractual worker	29.05.20	Rajapur OCP, Bastacolla Area	500000	Paid	Not Entitled
<b>NCL</b>						
1	Late Raja Ram, Sr. Dumper Operator	13.07.20	Block-B OCP, Block-B Area	527800	Paid	Son
2	Late Ram Shushil Rajak, Contractual worker	20.07.20	Dudhichua, Dudhichua Area	758000	Paid	Not Entitled
<b>WCL</b>						
1	Late Rajesh Sharma, Contractual worker	22.05.20	Makardhokda-I OCP, Umrer Area	1610755	Paid	Not Entitled
2	Late Avinash Bhaurao Thawari, General Mazdoor	18.06.20	Mahakali, Chandrapur Area	1401750	Paid	Under process
3	Late Ravindra Singh, Support Mistry	15.10.20	Tawa UG mine, Pathakhera Area	498800	Paid	Dispute of Nominees' age
<b>SECL</b>						

Sl No	Victim's Name and Designation	Accident Date	Mine & Area	Statutory Compensation (in Rs.)	Special Relief (Rs. 15 Lakhs)	Employment provided to
1	Late Ramesh Kushwaha, Contractual worker	13.02.20	Jampali OCP Raigarh Area	1649625	Paid	Not Entitled
2	Late Trilochan Kar, Contractual worker	01.05.20	Kusmunda OCP Kusmunda	1459800	Paid	Not Entitled
3	Late Enocent Turkey, Support Mistry	30.05.20	Churcha RO, Baikunthpur Area	1173525	Paid	Son
4	Late Dhaneshwar, Driller	24.06.20	Kurasia, Chirimiri Area	962475	Paid	Nominee yet to be decided
5	Late Suresh Das Contractual worker	23.07.20	Kusmunda OCP Kusmunda	1477950	Paid	Not Entitled
6	Late Mukesh Kumar Diwakar, Contractual Mechanic	30.07.20	Gevra OCP Gevra Area	1626826	Paid	Not Entitled
7	Late Dipendra Kumar Jain, EP Fitter	15.10.20	Gevra OCP Gevra Area	962475	Paid	Under process
8	Late Bifal Ram, Dresser	21.11.20	Churcha UG Mine, Baikunthpur Area	1096500	Paid	Under process
9	Late Shyam Das, Contractual water tanker operator	30.11.20	Chhal OCP, Raigarh Area	1070100	Paid	Not Entitled
<b>MCL</b>						
1	Late Srimukha Pradhan, Contractual worker	21.03.20	Lingaraj OCP Lingaraj Area	1293900	Paid	Not Entitled
2	Late Benudhar Sahoo, Cableman	03.05.20	Ananta OCP, Jagannath Area	1122525	Paid	Son
3	Late Somesh Gavde, Contractual worker	05.05.20	Hingula OCP Hingula Area	1426700	Paid	Not Entitled
4	Late Gangadhar Das, Support Mistry	20.08.20	Nandira Colliery, Talcher Area	989625	Paid	Son
<b>Total Fatalities = 23</b>						

NB: Figures are up to 30<sup>th</sup> November'2020.

## 2. SCCL

Sl. No	Victim's Name and Designation	Accident Date	Mine/Area	Statutory Compensation Rs.	Special Relief Rs.	Employment
<b>A</b>	<b>SCCL Employees</b>					
	<b>S/Sri</b>					
1	Kodam Sanjeev, General Mazdoor.	07.04.20	GDK 11, RG1 Area.	9,62,475	15,90,000	Opted Rs. 25,00,000/- lump sum amount in lieu of Employment
2	Ratnam Lingaiah	02.09.20	RK-5, SRP Area	10,89,247	15,90,000	Under process
3	R Naveen Kumar	29.10.20	Vakilpalli, RG-2	16,14,600	15,90,000	Under process
<b>B</b>	<b>Contract Employees</b>					
	<b>S/Sri</b>					
4	Madan Mohan Das, Contract workman (OB)	05.04.20	KKOC , MM Area	14,01,750	5,00,000	
5	Koduri Swamy, Contract workman(CIVIL)	30.04.20	ALP, RG3 Area.	10,39,684		--
6	B.Rajesham, Contract workman(OB)			10,67,734	5,00,000	--
7	B. Praveen Contract workman(OB)		RG OC1, RG3 Area.	9,30,145	9,30,145	--

Sl. No	Victim's Name and Designation	Accident Date	Mine/Area	Statutory Compensation Rs.	Special Relief Rs.	Employment
8	Rakesh RajannaBalwkar Contract workman(OB)	02.06.20		11,80,429	5,00,000	--
9	B. Arjaiah Contract workman(OB)			10,63,590	5,00,000	--
10	Ennapureddy Mahesh. Contract workman(OB)	05.07.20	IK OC, SRP Area.	11,16,786	21,55,878	
11	ChekkaSadaiah Contract workman(CIVIL)	06.07.20	RG OC2, RG3 Area.	5,25,000	--	--

### 3. NLCIL: Nil

### 4. SAIL

Sl.No	Victim's Name & Designation	Accident Date	Mine	Statutory Compensation	Special Relief (Rs)	Employment
1	Lt. MahatabAlam (Contractual – Munshi)	22.05.2020“B” shift	Deep Mine Chasnalla Colliery	Compensation Amount is under process in the office of Labour Court Dhanbad as per employees Compensation Act 1923.	4,00,000	Wife

**Confirmation of the Minutes of the 44<sup>th</sup> meeting of Standing Committee on Safety in Coal Mines under the Chairmanship of Hon'ble Minister of Coal held on 12.02.2020**

The 44<sup>th</sup> meeting of the Standing Committee on Safety in Coal Mines was held on 12<sup>th</sup> February, 2020 in New Delhi under the Chairmanship of Hon'ble Minister of Coal, Mines & Parliamentary Affairs, Shri Pralhad Joshi.

1. The list of participants is enclosed as Annexure.
2. At the outset, floral tribute was paid to those who laid down their lives for the cause of Coal Industry since the last meeting of the Standing Committee on safety in coal mines and one-minute silence was observed in memory of all departed souls.
3. Secretary (Coal) while welcoming to the 44<sup>th</sup> meeting of Standing Committee, highlighted the importance of safety for sustaining growth in coal sector. He advised all stakeholders such as DGMS, producing coal/lignite companies, trade unions (TUs) to work together for enhancing safety standards of mine and to ensure achievement of zero accident target in the mines. He, further, emphasized on significance of coal in the growth of the nation. Considering 22-23% of total consumed coal which are being imported, there is a need of coal production of country to be enhanced with safety.
4. **Confirmation of the minutes of the 43<sup>rd</sup> Meeting:** The minutes of the 43<sup>rd</sup> meeting of the Standing Committee on Safety in Coal Mines held on 21.08.2018 were proposed for confirmation. In this context, Project Adviser, MOC informed that no comments were received from any members. However, Shri Manas Mukherjee, representative CITU informed that his comments in context of Gokul Mine incident was not properly presented and his email to MOC in this regard was not taken into cognizance. He proposed that under point 2(v) of the minutes the last line on women safety was for all coal mines rather than for underground mines, and as such the last statement may be modified as "...for deployment of women in coal mines." The same was adopted and the minutes were confirmed with the above modification.
5. Director (Tech), CIL made a brief power point presentation (PPT) highlighting performance of CIL on production, off take, major milestones achieved by subsidiaries of CIL and accident statistics.
6. Followings points were highlighted by Hon'ble members of the Standing Committee during deliberation:
  - a. **Delay in organizing Standing Committee on safety in coal mines meeting :**
    - i. Representatives of TUs expressed their unhappiness for not organizing meeting of Standing Committee on Safety in Coal Mines since Aug. 2018 and it was desired that meeting should be held twice in a year as per norms.
    - ii. Hon'ble Minister of Coal, Mines & Parliamentary Affairs Shri Pralhad Joshi assured the house that meeting of Standing Committee on Safety in Coal Mines shall be held twice in a calendar year and the next meeting would be held in the month of August/ September, 2020.
    - iii. The Hon'ble Minister also directed that the agenda of the meeting should be circulated well in advance to the Members as desired by them.
  - b. **Maintenance and repairing of company quarters –**
    - i. Dr. B K Rai, Representing BMS pointed out that even after assurance given during last meeting, repairing of company's quarters was not completed.
    - ii. Shri Surender Kumar Pandey, Representing BMS said that identification process for residential quarters for repairing was not correct.
    - iii. Shri Manas Mukherjee, Representing CITU desired that the

roads inside residential colonies, water supply and other amenities should also be improved along with repairing of residential quarters.

- iv. Shri N Gopalkrishnan, Rep. of CMOAI pointed out that delay in repairing of residential quarters was due to non-issuance of work order in time by civil department.
- v. DP, CIL informed the house about the current status of repairing of residential quarters in CIL. He said that requisite work orders for repairing have been issued by the concerned civil department and repairing jobs will be completed at the earliest in all subsidiaries.
- vi. Chairman, CIL said that many civil contracts for repairing of residential quarters get terminated at time of execution due to various reasons.
- vii. Hon'ble Minister desired that CIL should share all requisite information related to the repairing of residential quarters with all TU representatives through email. All repairs as appropriate may be carried out immediately.

**Action: Coal companies**

**c. Status of Mining shoes & gumboots:**

- i. Shri Surender Kumar Pandey of BMS said that no gumboots were issued by SECL after 2018. He further pointed out poor quality of "LIBERTY" brand mining shoes supplied by SECL. He desired that DGMS should take note of it as "LIBERTY" had DGMS approval.
- ii. Shri Ramendra Kumar, Representing AITUC, desired that Owner should ensure that mining shoes are provided once in every six months.
- iii. Shri Manas Mukherjee of CITU remarked that that standards for gumboot has not fixed.
- iv. DT, CIL informed that standardization of mining shoes and gumboots has already done by the Committee constituted for this purpose by the Ministry and a report of the same has given in Agenda Notes.
- v. DGMS informed the house that it is the responsibility of owner of mine to ensure that workmen is not allowed in the mine without gumboots.

**Action: Coal companies**

**d) Utilisation of Safety Budget:**

- i. Shri Surender Kumar Pandey of BMS pointed out under-utilization of safety budget in all subsidiary of CIL except MCL and desired that procurement process should be expedited.



- ii. Citing fatal accident at Rajmahal OC mine of ECL and Bharatpur Opencast (OC) mine of MCL due to overburden (OB) dump slope failure, Dr. B K Rai of BMS desired that procurement of slope stability radars may be expedited.

**Action: Coal companies**

**e) Strata Control Management:**

- i. Shri Surender Kumar Pandey of BMS said that all underground (UG) mines of SECL are using resin capsules for roof bolting purpose but only 28 nos of 30T anchorage testing machines have been provided. He desired that all UG mines, where resin capsules are used, should be given 30T anchorage testing machines. He also pointed out that the recommendations of the 9<sup>th</sup> National Safety Conference (NSC) are not being complied. He further desired that Area level Strata Control Cell should be strengthened.
- ii. DT, CIL informed that RMR (Rock Mass Rating) based SSR (Systematic Support Rules) have been framed in all UG mines and the mechanized drilling arrangements have provided for drilling for roof bolting purpose. He further informed that emphasis are given on blast free mining.
- iii. CMD, CMPDI said that cement capsules based roof bolting system are predominate in CIL's UG mines, which requires lesser capacity of anchorage testing machines and that type of anchorage testing machines are available in all UG mines.
- iv. Hon'ble Minister suggested exploring the possibility of having at least one 30T anchorage testing machine in all UG mines of CIL.

**f) Safety issues related to fly ash dumping in OC mines :**

- i. Shri Surender Kumar Pandey of BMS mentioned that one Overman was fatally injured due to a slide of fly ash dump at Gare Palma OC Mine and he desired that dumping of fly ash in all running OC mines should be stopped.
- ii. It was noted that dumping of fly ash in mines is being done as per MOEF&CC directives and a meeting with MOEF&CC with other stakeholders including DGMS was held for detailed discussion on ramifications on mine safety. It was also noted that as per the discussions fly ash dumping has been allowed only in abandoned mines, and dumping should not be done in working mines.
- iii. Dy. DG, DGMS mentioned that abandoned mine can be used for fly ash dumping. Proper benching of fly ash dump should be done and dump slope as per natural angle of repose should be maintained to avoid accident.

**g) Medical Infrastructures:**

- i. Shri Ramendra Kumar of AITUC pointed out that life-saving ambulance is yet to be provided in all areas of CIL.
- ii. Shri Surender Kumar Pandey of BMS said that outdated 6-lead ECG, 300mA X-ray machines and films for detecting coal worker

pneumoconiosis are still in use in most of PME (Preliminary Medical Examination) Centers of CIL.

- iii. Shri Manas Mukherjee of CITU desired that all medical instruments used in PME centers need to be upgraded at regular intervals keeping in trail of advancement of technology. He further desired that the effect of machine vibration on the operator's body should be assessed.
- iv. Hon'ble Minister advised to deploy at least one advanced life saving ambulance in all mines of CIL and at least one advanced X-Ray machine in all CIL administered hospitals.

#### **h) Medical personnel:**

- i. Dr B K Rai said that there are huge shortages of doctors in CIL and selected doctors are not joining mine / area level hospitals.
- ii. Shri Nathulal Pandey, representing HMS, suggested that the requisite power to appoint medical practitioners may be delegated to the concerned subsidiary to speed up appointment process.
- iii. Shri N Gopal krishnan of CMOAI pointed out that the career growth of doctors in CIL are very limited.
- iv. In this context, Chairman, CIL informed that it is a very common problem in all rural health care system in all states of India. Since, mines are located at very remote places, most of the selected doctors are, therefore, not willing to join in CIL's mine or area level hospital.
- v. Secretary (coal) suggested that the last date for joining of selected doctors in CIL hospitals should be indicated and that should be communicated to all selected doctors. It should be explored if better terms and conditions can be given to doctors serving in mine areas.

#### **i) Dust problem in residential colonies of coal mines:**

- i. Shri Manas Kumar Mukherjee of CITU desired that movement of trucks through residential colonies should be stopped and separate road / bye-pass road should be constructed for coal transport beyond the periphery of residential colonies.
- ii. DT, CIL informed that in many mines dedicated separate road for coal transport have been constructed. He further informed that CIL has already chalked out plan for first mile connectivity by using conveyors, silos and other infrastructure for coal loading and transport and several steps are in progress in those identified mines.
- iii. Hon'ble Minister desired that coal transport through residential colonies should be avoided, as far as possible and bye-pass road should be constructed on priority. He further stressed on expediting activities marked in First Mile Connectivity Project of CIL.

#### **j) Amendment of Mine Vocational Training Rules (MVTR) – 1966:**

- i. Shri Surendra Kumar Pandey of BMS desired that DGMS should expedite the amendment of the Mine Vocational Training Rules (MVTR) – 1966 so that proper training could be imparted to all employees.
- ii. DGMS informed the house that draft of new amended MVTR has been finalized by Section-12 Committee of the Mines Act- 1952 and would be notified in due course of time after essential scrutiny by MOL&E.

**k) Amendment of Mine Rescue Rules (MRR) - 1985:**

- i. Shri Surendra Kumar Pandey of BMS pointed out that there are inadequacies in existing MRR-1985, and desired DGMS should take initiative to amend the existing MRR-1985 for dealing with emergency keeping in view of development in mines.
- ii. DGMS informed the house that draft amendment of MRR has framed and under consideration of Section-12 Committee of the Mines Act-1952. He further informed that the amendment of the Mines Act is under consideration and a draft has been framed in this context.

**l) Participation of private coal mining companies in standing Committee meeting:**

- i. Representatives of TUs expressed their strong dissatisfaction over private coal companies' attitude towards the Standing Committee on safety in coal mines. They pointed out that there are about 71 private owned coal mines of 26 companies, which are operating today but only handful of them are actually participated in the meeting. Most of these companies have failed to provide information needed for preparation of Agenda Notes of the meeting.
- ii. It was noted that the sub-committee constituted for the purpose had inspected SASAN coal mine in Singrauli District in Jan. 2019.

**m) Status of statutory persons:**

- i. Shri Ramendra Kumar of AITUC raised the issue of shortages of statutory manpower. He further said that the root cause of shortages in statutory manpower is due to the post of blocked for non-availability of suitable SC/ST candidates even though many eligible candidates are available. He suggested such posts may be de-notified and all eligible persons may be allowed to fill up the vacancies. He further said that requirement of statutory manpower in each mine should be assessed by DGMS.
- ii. Dr B K Rai of BMS desired that DGMS should conduct statutory competency examination regularly.
- iii. Shri Manas Kumar Mukherjee of CITU desired that Mine Surveyor should be used for designated statutory jobs only.
- iv. Citing several court cases, Shri N Gopalkrishnan of CMOAI desired that HR function of CIL should be improved. He further suggested that current "Promotion Policy" of CIL may be re-looked keeping view of wide resentment among E-6 level mining executives. DP, CIL mentioned that the same will be discussed separately in CIL.
- v. DGMS explained the house about current system of conducting competency examination through on-line method. He said that examination for Mining Sirdar shall be held after Sept. 2020.

**n) Ratification of recommendations of ILO- 176:**

- i. Shri Ramendra Kumar, Shri Surendra Kumar Pandey and Shri Manas Mukherjee desired that the Govt. of India should ratify the recommendations of ILO-176 for ensuring protection of workers' occupational health and safety, which was pending for a long time. They stated that already 91 countries have ratified the same.

- ii. Joint Secretary, MOL&E, informed that existing statutes are to be compared with provisions of ILO-176 before taking a call on the issue. Secretary (Coal) assured to take up the issue with Secretary, MoL&E..
- iii. Hon'ble Minister advised the Secretary (Coal) to prioritise this issue.

**o) Bio-metric attendance:**

- Dr B K Rai of BMS mentioned that as per Govt. of India directives bio-metric attendance is mandatory, but compulsory bio-metric attendance for contractual employees are yet to be made.
- DP, CIL informed the house that barring two areas; attendance of all departmental employees in CIL are made through bio-metric system.

**p) Securities of employees working in coalfields**

- i. Citing recent murder of employee during night shift in SECL, Dr B K Rai of BMS desired appropriate steps in consultation with concerned State Government must be taken for ensuring security of employees. He desired MOC to take up matter with Chief Secretary of Madhya Pradesh to enhance security of employees residing in the coalfields.
- ii. Shri Ramendra Kumar of AITUC also mentioned about lawlessness in coalfields of CCL and desired security of employees should be ensured.
- iii. Shri Surendra Kumar Pandey of BMS desired that private security guard may be engaged in place of "NAGAR SAINIK" in coal mines of Chhattisgarh under SECL and he expressed his unhappiness over role of CISF in the context of ensuring security of employees in SECL.

**7. Meeting ended with the vote of thanks to the Chair.**

## Agenda Item No. – II

### Action Taken Report (ATR) on Recommendations of the 44<sup>th</sup> meeting of the Standing Committee on Safety held on 12.02.2020

Para	Recommendations	Action Taken
b	<p><b>Repairing of Quarter for employees &amp; proposal for extending help for construction of self-financed house</b></p> <p>i. Dr. B K Rai, Representing BMS pointed out that even after assurance given during last meeting, repairing of company's quarters was not completed.</p> <p>ii. Shri Surender Kumar Pandey, Representing BMS said that identification process for residential quarters for repairing was not correct.</p> <p>iii. Shri Manas Mukherjee, Representing CITU desired that the roads inside residential colonies, water supply and other amenities should also be improved along with repairing of residential quarters.</p> <p>iv. Shri N Gopalkrishnan, Rep. of CMOAI pointed out that delay in repairing of residential quarters was due to non-issuance of work order in time by civil department.</p> <p>v. DP, CIL informed the house about the current status of repairing of residential quarters in CIL. He said that requisite work orders for repairing have been issued by the concerned civil department and repairing jobs will be completed at the earliest in all subsidiaries.</p>	<p><b>1. COAL INDIA LTD (CIL):</b></p> <ul style="list-style-type: none"> <li>• Out of 1,78,969 quarters identified for repairs, 1,64,296 quarters have been repaired (91.80%)</li> <li>• As decided in the meeting, the details of quarters repaired (Area wise, Colony Wise, Quarter numbers) were shared with representatives of CTUs vide email dt 17.03.20; 03.04.20 &amp; 27.04.20.</li> <li>• So far, no comments/ observations have been received from any of them.</li> </ul> <p><b>2. SCCL:</b> In SCCL, quarters are provided in all the administrative areas and are maintained in livable condition. Dilapidated quarters are dismantled as and when the need arises. The details are given are below -</p> <p>Total no. of Quarters : 49333</p> <p>New quarters under construction: 1478</p> <p>At BHPL Area :994</p> <p>At Sattupally :352</p> <p>At Singareni Thermal Power Project :132</p> <p><b>3.NLCIL:</b>The matter raised in the meeting were not pertaining to NLCIL.</p> <p>However, in NLCIL, quarters are well maintained by Town Administration Deptt. and for quarter maintenance, there is on line complaint logging and tracking system in place(OCLTS).</p> <p>Any employee can log in complaints in the INTRANET of NLCIL, related to civil, electrical or water supply and the same is remedied within 2 or 3 days.</p> <p><b>4.Moher and Moher Amlohri Extn. OCP:</b> We do not have any maintenance and repair problem of</p>

Para	Recommendations	Action Taken
	<p>vi. Chairman, CIL said that many civil contracts for repairing of residential quarters get terminated at time of execution due to various reasons.</p> <p>vii. Hon'ble Minister desired that CIL should share all requisite information related to the repairing of residential quarters with all TU representatives through email. All repairs as appropriate may be carried out immediately.</p>	<p>company quarters</p> <p><b>5. Gare Palma IV/4 Coal Mines:</b> Company Quarters adequately maintained.</p> <p><b>6. Kathuatia Opencast coal mine:</b> Quarter or colony are not provided by company.</p> <p><b>7. Chotia Mine-II:</b> Maintained in good condition</p> <p><b>8. Odisha Coal and Power Ltd (OCPL):</b>A residential complex with all facilities is under construction. The work of maintenance &amp; repairing of the quarters will be taken up subsequently after occupation of the same. The Mine operator has also provided accommodation having all amenities to its work persons. Regular maintenance &amp; repairing work is being ensured.</p> <p><b>9. Gare Palm Sec-III (CSPGCL):</b> No Accommodation provided to employees posted in GP-III s they appointed on contract base. Hence not applicable.</p> <p><b>10. SUNFLAG IRON&amp; STEEL LTD.:</b> NA</p> <p><b>11. SAIL:</b> There is provision for regular maintenance/ repairing of quarters at SAIL Collieries Division.</p> <p><b>12. NTPC:</b>  <b>a. Pakri Barwadih: CMP:</b> Pakri Barwadih CMP has developed temporary bachelor's accommodation with capacity of 52 employees equipped with all requisite facilities at Sikri.   MDO- TSMPL has constructed MDO Colony for 600 employees complying all regulatory standards and equipped with necessary facilities. Maintenance &amp; repairing is taken up regularly.   Additional 200 quarters under construction.   <b>b. Dulanga CMP:</b> Dulanga Coal Mining Project and Darlipalli STPP have combined newly constructed township with all modern facilities. Maintenance &amp; repairing is taken up regularly as per requirement.</p>

Para	Recommendations	Action Taken											
		<p><b>c. Talaipalli CMP:</b> Township of Talaipalli Coal Mining Project is under construction. Township of Talaipalli Coal Mining Project is under construction.</p>											
c	<p><b>Status of Mining shoes &amp; gumboots:</b></p> <ul style="list-style-type: none"> <li>i. Shri Surender Kumar Pandey of BMS said that no gumboots were issued by SECL after 2018. He further pointed out poor quality of “LIBERTY” brand mining shoes supplied by SECL. He desired that DGMS should take note of it as “LIBERTY” had DGMS approval.</li> <li>ii. Shri Ramendra Kumar, Representing AITUC, desired that Owner should ensure that mining shoes are provided once in every six months.</li> <li>iii. Shri Manas Mukherjee of CITU remarked that that standards for gumboot has not fixed.</li> <li>iv. DT, CIL informed that standardization of mining shoes and gumboots has already done by the Committee constituted for this purpose by the Ministry and a report of the same has given in Agenda Notes.</li> <li>v. DGMS informed the house that it is the responsibility of owner of mine to ensure that workmen is not allowed in the mine without gumboots.</li> </ul>	<p><b>1.DGMS:</b> Vide DGMS Circular (Approval) No.04 dated 14.08.2014, DGMS discontinued the approvals for footwear. Hence, DGMS is not granting any approval for footwear. The manufacturing and user industry has to see that the footwear used in the mines should confirm the relevant BIS standards mentioned in the Circular.</p> <p><b>2.CIL:</b> Only DGMS approved IS-marked Safety shoes (Gumboot /Mining shoe) are provided to all eligible employees once in every six months in CIL and its subsidiaries. CIL has in-house mechanism for checking the quality of supplied safety shoes. Further, specific clauses for ensuring quality of safety shoes are incorporated in NIT.</p> <p>Whenever any complaint is received from an employee about quality or condition of safety shoe, the said safety shoe is being replaced after verification. At present, no complaint regarding replacement of safety shoe is pending.</p> <p>Status of procurement and distribution of safety shoes in all subsidiaries is being monitored regularly.</p> <p><b>3.SCCL:</b> In SCCL, there is no shortage of Miners’ Shoes. Miners’ shoes and complying with regards issue of miner shoes once in six months. All <b>Future procurement will be as per new BIS: 3976-2018.</b></p> <p>Rate contract Orders are released for 3 years period on M/s Joy Lakshmi, Kolkata for supply of Miners’ shoes.</p> <p>Consumption and order status of Miners’ Shoes (in nos.):</p> <table border="1" data-bbox="762 1944 1358 2029"> <thead> <tr> <th data-bbox="762 1944 922 2029">2019-20</th> <th data-bbox="922 1944 1070 2029">2020-21</th> <th data-bbox="1070 1944 1198 2029">Stock</th> <th data-bbox="1198 1944 1358 2029">Balance</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				2019-20	2020-21	Stock	Balance				
2019-20	2020-21	Stock	Balance										

Para	Recommendations	Action Taken			
					order quantity
		78197	46064	26590	24602
		<p>Adequate stocks of shoes are maintained at our stores. As on date 26590 pairs of shoes are available at our stores and 24602 nos. order quantity is balance on firm.</p> <p><b>4.NLCIL:</b>(a)Protective and occupational foot-wears are issued to all the employees regularly at the stipulated interval.</p> <p>(b)As per DGMS Circular No.13 dated 04.06.2015,Procurement for safety shoe is done as per IS 15298(Part 2): 2011 and that of safety gum boot is done as per IS 12254:1993 with the replacement warranty of 12 months.</p> <p>(c)Safety shoes and Safety gumboots are procured centrally by Central Safety Wing through tendering process preferably through GeM portal.</p> <p>(d)Sufficient stock is also being maintained in mines as well as at centralized Mine Sub stores to meet the emergency requirements.</p> <p><b>5. Moher and Moher Amlohri Extn. OCP:</b> Total 1178 Pairs of High ankle safety shoes and 312 pairs of gum boots distributed to the workmen during the FY 2019-20.</p> <p><b>6. Gare Palma IV/4 Coal Mines:</b> Good Quality Mining Shoes and Gumboots.</p> <p><b>7. Kathuatia Opencast Coal Mines :</b> We are providing mining shoes and gumboots once in 6 months or as per need basis.</p> <p><b>8. Chotia Mine-II:</b> Frequency of distribution 6 months in place and maintained</p> <p><b>9.Gare Palma IV/8 Coal Mines:</b> Gumboots have been provided to all workmen at site.\</p> <p><b>10. OCPL:</b> Gumboots are issued during each rainy</p>			



Para	Recommendations	Action Taken
		<p>season. Distribution of mining shoes is ensured as and when required. Mining shoes and gumboots having ISI certification are being provided to all employees in this project.</p> <p>No employee is permitted to work without mining shoes.</p> <p><b>11. Gare Palm Sec-III:</b> Provided to all employees.</p> <p><b>12. WBPDCCL:DGMS</b> approved Mining Shoes conforming BIS norms are being provided once in every 6 Months to all persons working in the mine.</p> <p><b>13. GIPCL:</b> – Mining shoes and gumboots of good quality are being procured regularly and distributed to mining employee and also by Contractor's to their employee.</p> <p><b>14. SUNFLAG IRON&amp; STEEL LTD.:</b> No worker being allowed to work without Gumboots.</p> <p>Management ensures issue of fresh Gumboot every six months or upon getting damaged, whichever is earlier</p> <p><b>15. SAIL:</b> Safety shoe of M/s Bata India was issued to employees and for Gumboots adequate quantity has already been procured.</p> <p>Mining Shoes of proven quality are provided to all workers (including contractor workers) every Six months.</p> <p>In case of contractual employees, the contractor provides Mining Shoes and Gumboots timely and free of cost. Register of distribution is submitted to concerned Safety Officer of Colliery.</p> <p><b>16. NTPC:</b></p> <p><b>a. Pakri Barwadih: CMP:</b> Approved type &amp; good quality of Mining shoes and gum boots are issued to all employees on regular basis as per the DGMS norms .</p> <p>Without shoes or gum- boots No person is allowed in mines.</p> <p><b>b. Dulanga CMP:</b> Approved type &amp; good quality of Mining shoes and gum boots are issued to all</p>

Para	Recommendations	Action Taken
		<p>employees on regular basis as per the DGMS norms</p> <p>Without shoes or gum- boots No person is allowed in mines.</p> <p><b>c. Talaipalli CMP:</b> Approved type &amp; good quality of Mining shoes and gum boots are issued to all employees on regular basis as per the DGMS norms</p> <p>Without shoes or gumboots no person is allowed in mines.</p>
d	<p><b>Utilization of Safety Budget:</b></p> <p>i. Shri Surender Kumar Pandey of BMS pointed out under-utilization of safety budget in all subsidiary of CIL except MCL and desired that procurement process should be expedited.</p> <p>ii. Citing fatal accident at Rajmahal OC mine of ECL and Bharatpur Opencast (OC) mine of MCL due to overburden (OB) dump slope failure, Dr. B K Rai of BMS desired that procurement of slope stability radars may be expedited.</p>	<p><b>1. CIL:</b></p> <p>1. Reasons for under-utilization of budget particularly under safety head were thoroughly analysed by respective subsidiary of CIL. Following are reasons:</p> <ul style="list-style-type: none"> <li>• CIL has procured several high capacity HEMMs with AMC in recent years. These HEMMs are equipped with several advanced safety features which are being maintained through AMC. But the same is not reflected in expenditure under mine safety head.</li> <li>• Safety is encompassing various works across several departments such as Excavation, E&amp;M, Civil, etc. The expenditures incurred on the account of safety in those departments are booked under separate heads. <ul style="list-style-type: none"> <li>• Some of capital safety items are being procured on hiring basis, so the capital expenditure is reduced.</li> </ul> </li> <li>• Further, complaints lodged by competitor suppliers for several safety items, tenders under capital head does not get finalized in time. Re-tendering has to be initiated and resulted into less expenditure.</li> </ul> <p>2. Effort has been made for inclusion of slope stability Radar system in GeM Portal. Now the Category of Slope stability Radar System is available on GeM portal and Product is available. Subsidiaries are under the process of procurement of Slope Stability Radar System.</p>

Para	Recommendations	Action Taken																													
		<p>3. Scientific Study has been conducted at each mine and on the basis of scientific studies the alternate methods of slope monitoring as 3D Laser Scanner, Targetless Total Station, Borehole extensometers etc. are used for dump/slope monitoring.</p> <p>4. Effort has been done for inclusion of various Safety items on GeM Portal and Subsidiaries have started procuring such safety items through GeM Portal.</p> <p>i. Details of funds allocated for Safety Budget and its utilization is given in <b>Agenda Item no. VIII.</b></p> <p>2. <b>SCCL:</b> Safety budget and its utilization for the years 2017-18, 2018-19, 2019-20 and 2020-21(Up to Nov., 2020) is given below -</p> <p>(Rs. in lakh)</p> <table border="1" data-bbox="770 1108 1437 1877"> <thead> <tr> <th rowspan="2">Year</th> <th colspan="2">Capital</th> <th colspan="2">Revenue</th> </tr> <tr> <th>Budget</th> <th>Actual Expenditure</th> <th>Budget</th> <th>Actual Expenditure</th> </tr> </thead> <tbody> <tr> <td>2017-18</td> <td>1365</td> <td>1133</td> <td>79670</td> <td>81870</td> </tr> <tr> <td>2018-19</td> <td>961</td> <td>1034</td> <td>4602</td> <td>104863</td> </tr> <tr> <td>2019-20</td> <td>700</td> <td>633</td> <td>--</td> <td>80763</td> </tr> <tr> <td>2020-21(up to Nov., 20)</td> <td>1000</td> <td>642**</td> <td>--</td> <td>46661</td> </tr> </tbody> </table> <p>* Including Payments to be made towards supplies made.</p> <p>One LiDAR was procured and commissioned at</p>	Year	Capital		Revenue		Budget	Actual Expenditure	Budget	Actual Expenditure	2017-18	1365	1133	79670	81870	2018-19	961	1034	4602	104863	2019-20	700	633	--	80763	2020-21(up to Nov., 20)	1000	642**	--	46661
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Para	Recommendations	Action Taken												
		<p>Gouthamkhani OC, Kothagudem area for monitoring of slopes.</p> <p><b>3. NLCIL: in NLCIL Mines,</b></p> <p>a) As per NLC Safety and Health policy, Separate and sufficient resources are allocated for maintaining and improving safety and health performance.</p> <p>(b) In FY19-20, Rs 10.07 Crores were allocated for safety. For FY20-21, safety budget allocation is Rs 11.24 Crore.</p> <p>(c) For prevention of OB dump slope failure, scientific study has been conducted at Neyveli Mines by IIT-BHU and tender preparation process for procurement of slope monitoring radar is under progress.</p> <p><b>4. Moher and Moher Amlohri Extn. OCP:</b> Details given in Agenda - IV.</p> <p><b>5. Gare Palma IV/4 Coal Mines:</b> Yes.</p> <p><b>6. Kathuattia Opencast Coal Mines:</b> safety budget and its utilisation - FY 20-21 As per company P&amp;B ( lakh)= 28.75 Actual expenses till July,20(lakh)- 2.94</p> <p><b>7. Chotia Mine-II:</b> Done</p> <p><b>8. OCPL:</b> Provision of adequate Safety Budget is made in the overall budget of the company.</p> <table border="1" data-bbox="762 1440 1444 1888"> <thead> <tr> <th data-bbox="762 1440 914 1541">Year</th> <th data-bbox="914 1440 1166 1541">SAFETY BUDGET in Rs.</th> <th data-bbox="1166 1440 1444 1541">UTILIZATION in Rs.</th> </tr> </thead> <tbody> <tr> <td data-bbox="762 1541 914 1601">2018-19</td> <td data-bbox="914 1541 1166 1601">2,23,20,000.00</td> <td data-bbox="1166 1541 1444 1601">4,16,632.00</td> </tr> <tr> <td data-bbox="762 1601 914 1662">2019-20</td> <td data-bbox="914 1601 1166 1662">1,56,40,000.00</td> <td data-bbox="1166 1601 1444 1662">1,34,31,000.00 *</td> </tr> <tr> <td data-bbox="762 1662 914 1888">2020-21</td> <td data-bbox="914 1662 1166 1888">1,58,20,000.00</td> <td data-bbox="1166 1662 1444 1888">Approx. 73,70,000.00 (April 2020 to November 2020)**</td> </tr> </tbody> </table> <p>*Approx. Rs.1,27,70,000.00 in FY 2019-20 spent by</p>	Year	SAFETY BUDGET in Rs.	UTILIZATION in Rs.	2018-19	2,23,20,000.00	4,16,632.00	2019-20	1,56,40,000.00	1,34,31,000.00 *	2020-21	1,58,20,000.00	Approx. 73,70,000.00 (April 2020 to November 2020)**
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Para	Recommendations	Action Taken
		<p>MO.</p> <p>**Approx.Rs.70,00,000.00 in FY 2020-21 spent by MO.</p> <p><b>9. Gare Palm Sec-III:</b> Maintained by MDO &amp; presently the external dump is being done. Hence Slope Stability Radar (SSR) is not required.</p> <p><b>10.SUNFLAG IRON&amp; STEEL LTD.:</b> Full utilization of safety budget.</p> <p><b>11. SAIL:</b> There is no budgetary restriction on expenditure for Safety.</p> <p>As per safety concern, budget is being allocated to concerned Colliery, and it is properly utilized.</p> <p><b>12. NTPC:</b>  <b>a. Pakri Barwadih: CMP:</b> Safety Budget is not a constraint in NTPC.</p> <p>Safety budget utilisation in FY19-20- Rs 69 lakhs.</p> <p>Planned Safety Budget for FY20-21- Rs 2 Cr.</p> <p>Dump slope stability monitoring is being carried out by fixing /grouting the slope monitoring poles and readings are taken at regular intervals with the help of surveying instruments (Total station) and records are being maintained.</p> <p>Procurement of Terrestrial Laser Scanner is under process by NTPC.</p> <p><b>b. Dulanga CMP:</b> Safety Budget is not a constraint in NTPC. Till now 1.12 Cr has been spent on safety by M/s NTPC Limited.</p> <p>As of now, the overburden dump has reached single stage maximum 30m only and slope monitoring is being done using Total Station with fixing of monitoring points. The procurement of Terrestrial Laser Scanner for survey and monitoring of movement of slopes is under process to increase efficacy &amp; periodicity of survey. After increase in height of OB dump, procurement of Slope Stability radar will be considered.</p>

Para	Recommendations	Action Taken
		<p><b>c. Talaipalli CMP:</b> As on date approximately 36 lakhs has been spent on safety at Talaipalli Coal Mining Project.</p> <p>Slope stability monitoring is being done as per the recommendation of the scientific study report by BHU. Presently 17 Nos of pillars have been erected and coordinates of the pillars are being taken periodically to assess any lateral movement</p>
e	<p><b>Strata Control Management:</b></p> <p>i. Shri Surender Kumar Pandey of BMS said that all underground (UG) mines of SECL are using resin capsules for roof bolting purpose but only 28 nos. of 30T anchorage testing machines have been provided. He desired that all UG mines, where resin capsules are used, should be given 30T anchorage testing machines. He also pointed out that the recommendations of the 9th National Safety Conference (NSC) are not being complied. He further desired that Area level Strata Control Cell should be strengthened.</p> <p>ii. DT, CIL informed that RMR (Rock Mass Rating) based SSR (Systematic Support Rules) have been framed in all UG mines and the mechanized drilling arrangements have been provided for drilling for roof bolting purpose. He further informed that emphasis are given on blast free mining.</p> <p>iii. CMD, CMPDI said that cement capsules based roof</p>	<p><b>1.CIL:</b></p> <p>i. 30T capacity Anchorage Testing Machine (ATM) is used for testing the efficacy of resin based grouted roof bolts but for testing cement capsule based roof bolts lower capacity (25T) ATMs are being used.</p> <p>ii. SECL has 48 nos. of 30T and 150 nos. of 25T Anchorage Testing Machines. Further, SECL ordered 72 nos. of new 30T anchorage testing machines out of which 20 (twenty) nos. have already been supplied and rest will be supplied shortly.</p> <p>iii. The recommendations of the 9th National Safety Conference (NSC) related to strata management in UG mines have been complied and implementation status have been thoroughly evaluated during 12<sup>th</sup> NSC held on 28<sup>th</sup> &amp; 29<sup>th</sup> January, 2020 at New Delhi.</p> <p>iv. Strata Control Cells have established as per recommendations of NSC and are functioning properly in subsidiaries of CIL.</p> <p>v. The Anchorage Test is meant for measuring the load bearing capacity / anchorage strength of the bolt. It shows the frictional bondage between the bolt, cement /resin grout and the rock surface of inner periphery of the drilled hole. As per requirement, 30T capacity Anchorage Testing Machine (ATM) is being used for testing the efficacy of resin grouted roof bolts and other</p>

Para	Recommendations	Action Taken
	<p>bolting system are predominate in CIL's UG mines, which requires lesser capacity of anchorage testing machines and that type of anchorage testing machines are available in all UG mines.</p> <p>iv. Hon'ble Minister suggested exploring the possibility of having at least one 30T anchorage testing machine in all UG mines of CIL.</p>	<p>appropriate type testing m/cs are being used for cement capsule based roof bolting system.</p> <p>vi. Subsidiary-wise Status of 30T and 25T Anchorage Testing Machines (ATMs) are given <b>Annexure-1</b>.</p> <p><b>2. SCCL:</b> All underground mines have been provided with 60 Nos of 30 tonne capacity Anchorage testing machines for non-destructive test of roof bolts. Procurement is in process for another 49 nos of 30 T capacity Anchorage testing machines.</p> <p>All 26 underground mines have been provided with <b>266 nos. of Pneumatic/Hydraulic roof bolters</b> /machines for roof bolting purpose.</p> <p>SCCL has established Strata Control Cell at Corporate as well as at Regional level.</p> <p>The services of scientific institutions like, SIMTARS, CIMFR, NIRM, NIT, IIT BHU etc., are being utilized for effective strata management system.</p> <p>15 Geologists and another 15 Strata control officers/Safety officers have been trained on 'Q' system for preparation of reports on SCAMP.</p> <p>At R &amp; D dept. numerical modeling cell established and the cell is equipped with FLAC-2D &amp; 3D software and one qualified Mining Engineer to conduct numerical modeling.</p> <p>Officers working in strata control cells were given specialized training in numerical modeling in Flac 3D and preparing SCAMPs on "RMR" and "Q" system approaches.</p> <p><b>3. NLCIL: NA</b></p> <p><b>4. Gare Palma IV/4 Coal Mines:</b> Yes. Strata Control Officer appointed Strata monitoring equipment installed <i>Conventional support like prop</i></p>

Para	Recommendations	Action Taken
		<p><i>&amp;Cog, Side Stitching, Wire net, Roof Bolts, Auto Warning Tell-tale etc</i></p> <p><b>5. Kathuatia Opencast Coal Mines:</b> Our mines is opencast. Dump and Pit stability analysis is done by IEST Sibpur</p> <p><b>6. Chotia Mine-II: NA</b></p> <p><b>7. OCPL:</b> The pit configuration is maintained with due regard to Pit Slope Stability Analysis carried out by CSIR-Central Institute of Mining and Fuel Research, Dhanbad 08-05-19. The bench and dump geometry are well within the statutory limits.</p> <p><b>8. SUNFLAG IRON&amp; STEEL LTD.:</b> 2 numbers of 25Te Anchorage testing machines are available and in operation. Unit level Strata Control Cell in operation. Pneumatic Roof bolting machines are under operation in the mine by commissioning compress air plant in surface. Resin capsules used for roof-bolting in the mine and only 25Te capacity Anchorage testing machines are in use. 25Te Anchorage testing machines are already available.</p> <p><b>9. SAIL:</b> Strata Control Management is being carried out in all the working areas as per SSR, and designed and framed based on scientific studies by CIMFR and other scientific institution</p>
f	<p><b>Safety issues related to fly ash dumping in OC mines :</b></p> <p>i. Shri Surender Kumar Pandey of BMS mentioned that one Overman was fatally injured due to a slide of fly ash dump at Gare Palma OC Mine and he desired that dumping of fly ash in all running OC mines should be stopped.</p> <p>ii. It was noted that dumping of fly ash in mines is being done as per MOEF&amp;CC directives and a meeting with MOEF&amp;CC with</p>	<p><b>1. DGMS:</b> Abandoned mines can be used for fly ash dumping. Proper benching of fly ash dump should be done and dump slope as per natural angle of repose should be maintained to avoid accidents.</p> <p><b>2. CIL:</b> Fly ash is not being dumped in any active mining areas of OC Mines of CIL and its subsidiaries except Gare Pelma IV/1 and Gare Pelma IV/2&amp;3 OC Mine of SECL, where fly ash dumping are being done as per order of Hon'ble High Court, Delhi. However, due care is being taken to ensure proper dump slope and high standards of safety.</p> <p>Further, 20 (twenty) mines of different subsidiaries</p>



Para	Recommendations	Action Taken
	<p>other stakeholders including DGMS was held for detailed discussion on ramifications on mine safety. It was also noted that as per the discussions fly ash dumping has been allowed only in abandoned mines, and dumping should not be done in working mines.</p> <p>iii. Dy. DG, DGMS mentioned that abandoned mine can be used for fly ash dumping. Proper benching of fly ash dump should be done and dump slope as per natural angle of repose should be maintained to avoid accident.</p>	<p>have been identified for fly ash filling.</p> <p><b>3. SCCL:</b> In SCCL, presently there is no dumping of fly ash in the voids in opencast mines.</p> <p><b>4.NLCIL:</b> In NLCIL mines, fly ash is not dumped in the Mines</p> <p><b>5.Amelia (North):</b> fly ash dumping has been allowed only in abandoned mines and dumping should not be done in working mines. Dy. DG, DGMS also agreed with the above view point.</p> <p>In spite of the fact mentioned above, MPPCB has stipulated that 25% of fly ash should be used for external dumps of over burden and same percentage in upper benches of back filling of opencast mine.</p> <p><b>6. Gare Palma IV/4 Coal Mines:</b> Not applicable.</p> <p><b>7. Kathuatia Opencast Coal Mines:</b> N/A</p> <p><b>8. Chotia Mine-II:</b>Fly ash dumping done as per DGMS permission and guidelines.</p> <p><b>9. OCPL:</b> Presently, external dumping is being carried out in the initial years as per the approved Mining Plan. Once the sufficient void is created and backfilling starts, the possibility of filling of fly ash in the mine will be explored.</p> <p><b>10. Gare Palm Sec-III:</b> No scope for dumping of fly ash in this Mine as the Mine is started One year before.</p> <p><b>11. WBPDCCL:</b> Not applicable in mines WBPDCCL.</p> <p><b>12. SUNFLAG IRON&amp; STEEL LTD: NA</b></p> <p><b>13. NTPC:</b></p> <p><b>a. PakriBarwadih: CMP:</b> No fly ash dumping is being done neither in pit nor in dump. No fly ash dumping is being done neither in pit nor dump.</p> <p><b>b. Dulanga CMP:</b> The fly ash dumping inside the mines is not being done.</p> <p><b>c. Talaipalli CMP:</b> No fly ash dumping is being done neither in pit nor dump.</p>

Para	Recommendations	Action Taken																														
g	<p><b>Medical Infrastructures:</b></p> <p>i. Shri Ramendra Kumar of AITUC pointed out that life-saving ambulance is yet to be provided in all areas of CIL.</p> <p>ii. Shri Surender Kumar Pandey of BMS said that outdated 6-lead ECG, 300mA X-ray machines and films for detecting coal worker pneumoconiosis are still in use in most of PME (Preliminary Medical Examination) Centres of CIL.</p> <p>iii. Shri Manas Mukherjee of CITU desired that all medical instruments used in PME Centres need to be upgraded at regular intervals keeping in trail of advancement of technology. He further desired that the effect of machine vibration on the operator's body should be assessed.</p> <p>iv. Hon'ble Minister advised to deploy at least one advanced life-saving ambulance in all mines of CIL and at least one advanced X-Ray machine in all CIL administered hospitals.</p>	<p><b>1. CIL:</b></p> <p><b>Subsidiary –wise ALS Ambulance Status (As on 15.12.2020)</b></p> <p><b>A. <u>To be finalised</u></b></p> <table border="1" data-bbox="762 465 1433 1043"> <thead> <tr> <th data-bbox="762 465 900 577">Subsidiary</th> <th data-bbox="900 465 1034 577">Nos.</th> <th data-bbox="1034 465 1433 577">Remarks</th> </tr> </thead> <tbody> <tr> <td data-bbox="762 577 900 779">BCCL</td> <td data-bbox="900 577 1034 779">1 ALS</td> <td data-bbox="1034 577 1433 779">Tender opened in last week of October. 4 bids received, under scrutiny, process to be completed shortly</td> </tr> <tr> <td data-bbox="762 779 900 891">WCL</td> <td data-bbox="900 779 1034 891">1 ALS</td> <td data-bbox="1034 779 1433 891">Tendered for the fourth time, Bids under evaluation</td> </tr> <tr> <td data-bbox="762 891 900 1043">NEC</td> <td data-bbox="900 891 1034 1043">1 ALS</td> <td data-bbox="1034 891 1433 1043">Tendered twice, no bids received, fresh proposal for tendering yet to be initiated.</td> </tr> </tbody> </table> <p><b>B. <u>Finalised/ Operational</u></b></p> <table border="1" data-bbox="762 1144 1412 2027"> <thead> <tr> <th data-bbox="762 1144 900 1256">Subsidiary</th> <th data-bbox="900 1144 1034 1256">Nos.</th> <th data-bbox="1034 1144 1412 1256">Remarks</th> </tr> </thead> <tbody> <tr> <td data-bbox="762 1256 900 1368">CCL</td> <td data-bbox="900 1256 1034 1368">7 ALS</td> <td data-bbox="1034 1256 1412 1368">All put into operation in Oct`20.</td> </tr> <tr> <td data-bbox="762 1368 900 1525">ECL</td> <td data-bbox="900 1368 1034 1525">7 ALS</td> <td data-bbox="1034 1368 1412 1525">1 ALS Ambulance deployed, rest 6 are yet to be received.</td> </tr> <tr> <td data-bbox="762 1525 900 1637">SECL</td> <td data-bbox="900 1525 1034 1637">4 ALS</td> <td data-bbox="1034 1525 1412 1637">All put into operation in Oct`20.</td> </tr> <tr> <td data-bbox="762 1637 900 1816">NCL</td> <td data-bbox="900 1637 1034 1816">5 ALS 7 BLS</td> <td data-bbox="1034 1637 1412 1816">All put into operation in Sept`20.</td> </tr> <tr> <td data-bbox="762 1816 900 2027">MCL</td> <td data-bbox="900 1816 1034 2027">4* ALS</td> <td data-bbox="1034 1816 1412 2027">Tendering process for hiring 4 regular ALS for 5 years put on hold for 6 months. Additional 4 ALS Ambulances deployed for</td> </tr> </tbody> </table>	Subsidiary	Nos.	Remarks	BCCL	1 ALS	Tender opened in last week of October. 4 bids received, under scrutiny, process to be completed shortly	WCL	1 ALS	Tendered for the fourth time, Bids under evaluation	NEC	1 ALS	Tendered twice, no bids received, fresh proposal for tendering yet to be initiated.	Subsidiary	Nos.	Remarks	CCL	7 ALS	All put into operation in Oct`20.	ECL	7 ALS	1 ALS Ambulance deployed, rest 6 are yet to be received.	SECL	4 ALS	All put into operation in Oct`20.	NCL	5 ALS 7 BLS	All put into operation in Sept`20.	MCL	4* ALS	Tendering process for hiring 4 regular ALS for 5 years put on hold for 6 months. Additional 4 ALS Ambulances deployed for
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Para	Recommendations	Action Taken	
			1 year for meeting Covid requirement.
<p>*Note: - The tendering process of regular 4 ALS Ambulances has been put on hold to avoid overlapping of period of deployment with Ambulances hired for 1-year period</p> <p>All subsidiaries have been advised to survey off old and outdated medical equipment and to have sufficient nos. of X ray/ECG Machines to meet the present requirement.</p> <p>In all major hospitals, 500 mA X Ray Machines are there, further in 3 hospitals 800 mA X Ray machines are functioning.</p> <p>All IME/PME centers of Subsidiaries of CIL are equipped with Audiometry and Spirometry as well as ILO X-Ray Plates.</p> <p><b>2. SCCL:</b>  SCCL established 1 Main Hospital, 6 Area Hospitals and 22 dispensaries covering 11 administrative areas of the company for extending medical facilities to the employees.</p> <p>SCCL has provided total 61 ambulances which includes 10 ICCU ambulances equipped with transport ventilators, multi - parameter monitor, defibrillators, suction apparatus, bulk cylinders, pulse oxymeter and all emergency medicines.</p> <p>12 fully equipped PME centers with 25 OHS Trained Doctors have been established to cater to the needs of IME and PME of permanent and contractual employees.</p> <p>SCCL up graded all medical equipment used in PME&amp;IME.</p> <p>Procured 8 nos. 500MA X-Ray machines during the year 2019-20.</p> <p>All PME Centers and Hospitals are provided with 12 LEAD ECG machines.</p>			

Para	Recommendations	Action Taken
		<p>24 Nos of Audiometry &amp; 16 nos. of Spirometry equipment are provided at PME centers.</p> <p><b>3.NLCIL:</b> (a)NLCIL has 3 fully equipped ALS Ambulances and 1 BLS Ambulance to shift any injured person from the site of accident to the emergency care center/General Hospital . In addition, 15 empaneled BLS Ambulances are also available to shift any sick patients for tertiary care at higher institutions for better treatment facilities.</p> <p>b) NLCIL has the facility of laboratory services exclusively for OHS including X-ray – 300mA, 12 Lead ECG Machine, Audiometry, Spirometry, Biochemistry Analyzer, Hematology Analyzer, Urine Analyzer etc.</p> <p>NLCIL has deployed 3 fully equipped Advanced Life Saving(ALS) Ambulances</p> <p><b>4. Moher and Moher Amlohri Extn. OCP:</b> Details given in Agenda - V.</p> <p><b>5. Gare Palma IV/4 Coal Mines:</b> Well-equipped Occupation Health Centre <i>Certified Pathology Lab, X-Ray Machine 300, Audiometer, Spirometer, Vision Test Box, BP Instrument, Auto Clave Defibrillator, ECG – 12 Lead, Bio chemistry analyzer, Hematology analyzer, Oxygen concentrator, Microscope Binoculars, Bacteriological Incubator &amp; Bone Densitometer.</i></p> <p>Well-equipped Ambulance available 24 x 7 at Mine Site.</p> <p>Well Equipped First-Aid Room.</p> <p>Tie up with all the Good Hospitals around the Mine. Mediclaim policy for every company employee and WC Policy for Every contractor employee.</p> <p><b>6. Kathuatia Opencast Coal Mines:</b>  1.Infrastructure Well furnished dispensary Oxygen cylinder BP instrument Stethoscope Thermal scanner Portable healthcube machine for</p>

Para	Recommendations	Action Taken
		<p>blood investigation stretcher weight machines well equipped Ambulance.</p> <p>2. ECG and X-Ray machine are outsourcing 3. Remaining test(LFT, eye refraction test etc.) are also outsourcing</p> <p><b>7. Chotia Mine-II:</b> Maintained as mentioned.</p> <p><b>8. Gare Palma IV/8 Coal Mines:</b> One advance life saving ambulance is available with drivers round the clock. We have also tied up with 2 nos. Multi Specialty Hospitals, equipped with all the reasonable facilities for IME &amp; PME of workers.</p> <p><b>9. OCPL:</b> A 14 bed hospital is under construction at OCPL's residential colony. The hospital will be provided with advanced state of the art equipment for carrying out initial and periodical medical examination. The contractors working at OCPL's site have provided 2 nos. fully equipped ambulance.</p> <p><b>10. Gare Palm Sec-III:</b> This is a new Mine and having two Ambulances.</p> <p style="padding-left: 40px;">01) Having Doctor &amp; Assistants with Medicines and lifesaving drugs. Ambulance on Emergency kept near vicinity of the Mine.</p> <p><b>11. GUJARAT INDUSTRIES POWER COMPANY LTD(GIPCL):</b> Company has its own full-fledged dispensary with fully equipped ambulance.</p> <p><b>12. SUNFLAG IRON&amp; STEEL LTD:</b> Ambulance with driver is provided in mine for 24 hours.</p> <p><b>13. SAIL:</b> Chasnalla Hospital caters to the requirement of the IME/PME of mine employees. Further, for higher medical assistance, there is provision of referral to other unit hospitals of SAIL as well as outside private hospitals to meet any exigency of employees.</p> <p><b>14. NTPC:</b> <b>a. PakriBarwadih: CMP:</b> For all the employees engaged in mines, IME and PME is compulsorily carried out. The mines hospital has been equipped</p>

Para	Recommendations	Action Taken
		<p>with both 12 lead ECG and 300 mAH x- ray facilities.</p> <p>Total - 05 Ambulances are available in Mines.  1. 01 ALS (Advance life support) and 01 BLS Basic life support) ambulances are maintained by NTPC ltd.  2. 03 general ambulances are maintained by MDO</p> <p><b>b. Dulanga CMP:</b>Advance life support &amp; basic life support Ambulances( one each) made available in mines area.</p> <p>Tata Refractory Limited hospital Belpahar has been tied up for using advance X-ray machine &amp; other advance medical facilities for mine workers.</p> <p><b>c. Talaipalli CMP:</b> Round the clock functional stabilisation center at Raikera site office with 2 beds is available.</p> <p>Stabilisationcentre is equipped with Transport ventilator, multi-para monitor, pulse oxymetry, automated external defibrillator, Oxygen concentrator, ECG machine, minor OT/dressing room along with essential and lifesaving emergency medicines</p> <p>01 BLS and 01 ALS ambulance facility is available round the clock.  Round the clock functional stabilisation center at Raikera site office with 2 beds is available.</p> <p>Stabilisation centre is equipped with Transport ventilator, multi-para monitor, pulse oxymetry, automated external defibrillator, Oxygen concentrator, ECG machine, minor OT/dressing room along with essential and lifesaving emergency medicines</p> <p>01 BLS and 01 ALS ambulance facility is available round the clock.</p>
h	<p><b>Medical personnel</b></p> <p>i. Dr B K Rai said that there are huge shortages of doctors in CIL and selected doctors are not joining mine / area level hospitals.</p>	<p><b>1. CIL:</b></p> <p>Against the last centralized recruitment action for doctors, 159 GDMOs and 159 Medical Specialists have joined.</p>

Para	Recommendations	Action Taken
	<p>ii. Shri Nathulal Pandey, representing HMS, suggested that the requisite power to appoint medical practitioners may be delegated to the concerned subsidiary to speed up appointment process.</p> <p>iii. Shri N Gopal Krishnan of CMOAI pointed out that the career growth of doctors in CIL are very limited.</p> <p>iv. In this context, Chairman, CIL informed that it is a very common problem in all rural health care system in all states of India. Since, mines are located at very remote places, most of the selected doctors are, therefore, not willing to join in CIL's mine or area level hospital.</p> <p>v. Secretary (coal) suggested that the last date for joining of selected doctors in CIL hospitals should be indicated and that should be communicated to all selected doctors. It should be explored if better terms and conditions can be given to doctors serving in mine areas.</p>	<p>Empowered subsidiaries to recruit doctors on regular basis vide OM dt 12.11.2020</p> <p>In addition to above, subsidiaries have been empowered to fill the unfilled post of doctors on contractual basis till regular appointment is done.</p> <p>2. <b>SCCL:</b> SCCL has a strength of 63 Specialists and 143 General Duty Medical Officers. + 21 (General Medical Consultants for COVID 19).</p> <p>Shortage of Lab technicians and Para-medical staff is being met by employing them on contract.</p> <p>Recruitment is under process for 14 Lab technicians, 84 staff Nurses, 4 ECG/2D technicians, 175 Ward assistants through internal/external sources.</p> <p>3. <b>NLCIL:</b> NLCIL has 350 bedded Hospital at Neyveli and there are sufficient doctors to meet out medical care requirements of workforce and their family members and the surrounding rural population as well.</p> <p>At present there are 70 Regular doctors, 28 Resident doctors and 179 paramedical staffs at Neyveli General Hospital.</p> <p>At NLCIL, we have assured career growth policy for doctors and paramedical staff.</p> <p><b>4. Moher and Moher Amlohri Extn. OCP:</b> Details given in <b>Annexure - V</b>.</p> <p><b>5. Gare Palma IV/4 Coal Mines:</b> Medical Officer – 01 (MBBS) BAMS-1 Paramedical Staff –03</p> <p><b>6. Kathuatia Opencast Coal Mines:</b> Qualified MBBS doctor at mines area Medical dresser in First Aid Centre ANM Nursing staff.</p> <p><b>7. Chotia Mine-II:</b> Two numbers Doctors along</p>

Para	Recommendations	Action Taken
		<p>with paramedical staff deployed</p> <p><b>8. OCPL:</b> Qualified medical practitioner visits OCPL's mine as well as mine operator's camp on regular basis. Appointment of qualified medical practitioner has been made. He is yet to join.</p> <p><b>10. Gare Palm Sec-III:</b> Recruitment in delayed due to Covid-19.</p> <p><b>11. SUNFLAG IRON&amp; STEEL LTD: NA</b></p> <p><b>12. SAIL :</b> SAIL Colliery Division has sufficient Medical personnel.</p> <p><b>12. NTPC:</b></p> <p><b>a. Pakri Barwadih: CMP:</b> As on date mines hospital has total 05 number of doctors. (MDO-02, NTPC-03).Hiring of one female lady doctor is under process.</p> <p><b>b. Dulanga CMP:</b> 02 No's of Doctors with support staff have been appointed in mines.</p> <p><b>c. Talaipalli CMP:</b> 02 nos.of male doctors and 1 lady doctor (Total 03) with supporting staffs have been appointed at Talaipalli Coal Mining Project.</p>
i	<p><b>Dust problem in residential colonies of coal mines</b></p> <p>i. Shri Manas Kumar Mukherjee of CITU desired that movement of trucks through residential colonies should be stopped and separate road / by-pass road should be constructed for coal transport beyond the periphery of residential colonies.</p> <p>ii. DT, CIL informed that in many mines dedicated separate road for coal transport have been constructed. He further informed that CIL has already chalked out plan</p>	<p><b>1. CIL:</b> Company-wise status is as under:</p> <p><b>ECL:</b></p> <ul style="list-style-type: none"> <li>• In most of areas coal transportation road is outside colony premises.</li> <li>• However, all Area authorities have been directed to identify the coal transportation routes passing through colonies and explore the possibility of bypassing the colonies by utilizing any existing road stretch.</li> <li>• Area authorities have also been directed to prepare an action plan for construction of road stretches to bypass the colonies.</li> </ul> <p><b>BCCL:</b></p> <ul style="list-style-type: none"> <li>• No such transportation is in BCCL.</li> </ul> <p><b>CCL:</b></p> <ul style="list-style-type: none"> <li>• Coal transporting roads in CCL is separate and are beyond the periphery of residential colonies.</li> </ul> <p><b>NCL:</b></p>



Para	Recommendations	Action Taken
	<p>for first mile connectivity by using conveyors, silos and other infrastructure for coal loading and transport and several steps are in progress in those identified mines.</p> <p>iii. Hon'ble Minister desired that coal transport through residential colonies should be avoided, as far as possible and bye-pass road should be constructed on priority. He further stressed on expediting activities marked in First Mile Connectivity Project of CIL.</p>	<ul style="list-style-type: none"> <li>• At NCL 69MT is transported by MGR and the available Rail infrastructure with mechanized rapid loading system.</li> <li>• To reduce the Road transportation of Coal, Wharf wall system of loading has been added, of a capacity of 26.8MT.</li> <li>• Additional 35MT capacity of CHP is scheduled to be completed by F.Y. 21-22 in a phased manner to reduce/eliminate the road transportation through residential areas.</li> </ul> <p><b>WCL:</b></p> <ul style="list-style-type: none"> <li>• Bypass is constructed wherever feasible to arrest dust in residential colonies. Dust suppression is being done in residential colonies wherever required.</li> <li>• Regular cleaning of roads is being done.</li> <li>• Also plantation is being done along road side to arrest dust due to coal transportation trucks.</li> </ul> <p><b>SECL:</b></p> <ul style="list-style-type: none"> <li>• Separate roads for coal transportation have been constructed in most of the mines, such as Dipka, Gevra and Manikpur OC etc.</li> <li>• Coal transport through residential colonies is avoided.</li> </ul> <p><b>MCL:</b></p> <ul style="list-style-type: none"> <li>• In Talcher Coalfield, a length of 20.99 KM separate Coal Corridor, eliminating more than 17 villages and residential colonies, has been established and is under operation since December, 2016. The concreting work is going on and is expected to be completed by March, 2021.</li> <li>• In IB Valley field, a total length of 17.034 KM Coal corridor exists eliminating more than 10 villages and residential colonies. The concreting work is under progress and is expected to be completed by August, 2021.</li> </ul> <p>Vertical Green Barriers System are already being used in two OC mines of MCL for controlling the fugitive dust generation from mining activities. Development of Vertical Green Barriers are under</p>

Para	Recommendations	Action Taken
		<p>process in two mega projects of SECL and one OC mine of WCL has been identified for the same.</p> <p>Details of First Mile Connectivity (FMC) Projects of CIL as on 11.12.2020 are given in the <b>Annexure - 2</b>.</p> <p><b>2. SCCL:</b></p> <ul style="list-style-type: none"> <li>➤ The residential colonies of SCCL are well planned with blacktopped roads and vegetation.</li> <li>➤ The residential colonies are located reasonably away from the mines and other establishments.</li> </ul> <p>Further, the following dust suppression measures are taken at mines, CHPs to prevent propagation of dust to inhabited areas (nearby villages) including residential colonies</p> <ul style="list-style-type: none"> <li>➤ Entire coal production of RG OC-1, RG OC-2, &amp; ALP projects to the tune of 9 MT is being transported through belt conveying systems from face to wagon loading system established at RG OCP CHP.</li> <li>➤ A coal corridor road (BT) of 17 km. length is made in Ramagundam from GDK 5 Incline to Centenary colony (Rs.32.56) to avoid movement of coal trucks through residential areas.</li> <li>➤ Complete rail mode coal transport has been established for fuel supply to STPP plant of SCCL.</li> <li>➤ SCCL has taken up jointly with South Central Railway (SCR) 58 km. railway line for linking Sattupally Opencast mines to BDCR station to eliminate transport of 10 MT of coal by road and scheduled to be completed by June 2021.</li> <li>➤ Coal transport trucks are covered with tarpaulin sheets during coal transportation for prevention of spillage and dust generation.</li> <li>➤ Avenue plantation is being done all along the coal transport roads for dust and noise control.</li> <li>➤ Dust Suppression systems are provided for spraying water at crusher hoppers, discharge/transfer points of belt conveyors &amp; at loading points of trucks. Water spraying systems are provided around coal stocks to prevent</li> </ul>

Para	Recommendations	Action Taken
		<p>generation and propagation of dust while loading of coal at stock yards.</p> <ul style="list-style-type: none"> <li>➤ 34 Nos. portable dust suppression machines (Mist Guns) are provided at various coal handling Plants (CHP's) to prevent dust becoming air born.</li> <li>➤ Dust suppression by utilizing 12KL/10KL mobile water sprinklers on coal transport roads is being implemented.</li> <li>➤ Order is placed for 14 Nos of 500 TPH feeder brakers with integrated dust suppression systems. In-built dust suppression systems are procured for 6 Nos of Pre Weigh Truck Loading Systems (PWTLs) for installation at upcoming KTK OC3 BHPL, IK OC, SRP and Kistram OC.</li> </ul> <p><b>3. NLCIL:</b> There is no dust problem in residential colonies of NLCIL as there is no truck movement and lignite is transported to Power plant through belt conveyors.</p> <p><b>4. Moher and Moher Amlohri Extn. OCP:</b> No such problem is reported.</p> <p><b>5. Gare Palma IV/4 Coal Mines:</b> No issue of dust problem in residential colonies of coal mines as it is away from mines and coal dispatch road.</p> <p><b>6. Kathuatia Opencast Coal Mines:</b> 1. Coal dispatch is done by truck dumper covering tarpaulin properly.  2. A 20 kl water tanker has been deployed on the dispatch road for proper dust suppression  3. Air quality environment monitoring study is done periodically. And report is under permissible limit.</p> <p><b>7. Chotia Mine-II:</b> Well maintained, no dust problem in residential colonies observed or reported.</p> <p><b>8. OCPL:</b> The residential colony, which is under construction, and the mine operator's camp are about 2.5 km and 1.5 km respectively from the mine. Both are not affected by dust emitted from the mine.</p>

Para	Recommendations	Action Taken
		<p><b>9. Gare Palm Sec-III:</b> No residential areas near Mines, by dust suppression arranged near villages passing the trucks.</p> <p><b>10. WBPDCCL:</b> Coal transportation from Mine to Siding is done by Covered Truck through separate road away from colony.</p> <p>Proper Mitigative measure is taken for dust suppression in course of transportation</p> <p><b>11. SUNFLAG IRON&amp; STEEL LTD: NA</b></p> <p><b>12. NTPC:</b></p> <p><b>a. PakriBarwadih: CMP:</b> Movement of trucks from Residential areas is being avoided. Separate dispatch road (through CPWD) constructed avoiding all residential colonies.</p> <p><b>b. Dulanga CMP:</b> Residential colony is 10km away from mines transportation road and the transportation of coal from mines to power plant is planned by dedicated MGR railway line owned by NTPC.</p> <p><b>c. Talaipalli CMP:</b> Separate roads are being constructed away from residential area for truck movement.</p>
j	<p><b>Amendment of Mine Vocational Training Rules (MVTR) – 1966</b></p> <p>i. Shri Surendra Kumar Pandey of BMS desired that DGMS should expedite the amendment of the Mine Vocational Training Rules (MVTR) – 1966 so that proper training could be imparted to all employees.</p> <p>ii. DGMS informed the house that draft of new amended MVTR has been finalized by Section-12 Committee of the Mines Act- 1952 and would be notified in due course of time after essential scrutiny by MOL&amp;E.</p>	<p><b>DGMS:</b></p> <p>Draft Mines Vocational Training Rules, 2019 has been notified by the Ministry of Labour and Employment in the Gazette of India, Extraordinary, Part-II, Section 3, sub-section (i), No. 826 (E) dated 06.11.2019 for general information, comments and suggestions from different stake holders.</p> <p>After compilation of comments/ suggestions received it will put up before Section -12 Committee.</p> <p>However, it is to mention that Occupational Safety, Health and Working Conditions Code (OSHW Code) is under active consideration incorporating the Mines Act, 1952 and Rules and Regulations framed thereunder.</p>
k	<p><b>Amendment of Mine Rescue Rules (MRR) – 1985</b></p> <p>i. Shri Surendra Kumar</p>	<p><b>DGMS:</b></p> <p>Steps has been initiated for amendment of Mines</p>

Para	Recommendations	Action Taken
	<p>Pandey of BMS pointed out that there are inadequacies in existing MRR-1985, and desired DGMS should take initiative to amend the existing MRR-1985 for dealing with emergency keeping in view of development in mines.</p> <p>ii. DGMS informed the house that draft amendment of MRR has framed and under consideration of Section-12 Committee of the Mines Act- 1952. He further informed that the amendment of the Mines Act is under consideration and a draft has been framed in this context.</p>	<p>Rescue Rules, 1985 by forming a committee.</p> <p>However, it is to mention that Occupational Safety, Health and Working Conditions Code (OSHW Code) is under active consideration incorporating the Mines Act, 1952 and Rules and Regulations framed thereunder.</p>
1	<p><b>Participation of private coal mining companies in standing Committee meeting;</b></p> <p>i. Representatives of TUs expressed their strong dissatisfaction over private coal companies' attitude towards the Standing Committee on safety in coal mines. They pointed out that there are about 71 private owned coal mines of 26 companies, which are operating today but only handful of them are actually participated in the meeting. Most of these companies have failed to provide information needed for preparation of Agenda Notes of the meeting.</p> <p>ii. It was noted that the sub-committee constituted for the purpose had inspected SASAN coal mine in Singrauli District in Jan.</p>	<p><b>This Ministry has requested all the private and Public Sector Companies, having operational mines, to attend the meeting, as per the details below-</b></p> <ol style="list-style-type: none"> <li>1. Sasan Power Ltd.</li> <li>2. NTPC Ltd,</li> <li>3. Steel Authority of India Ltd</li> <li>4. West Bengal Power Development Corp. Ltd</li> <li>5. Hindalco Industries Ltd</li> <li>6. Odisha Coal &amp; Power Ltd</li> <li>7. Adani Power Limited</li> <li>8. CESC Ltd</li> <li>9. The Durgapur Project Ltd</li> <li>10. OCL Iron &amp; Steel Ltd</li> <li>11. Sunflag Iron &amp; Steel Company Ltd</li> <li>12. Topworth Urja &amp; Metals Ltd</li> <li>13. Telangana State Power Generation Cooperation Ltd</li> <li>14. Rajasthan Rajya Vidyut Utpadan Nigam Ltd</li> <li>15. Chhattisgarh State Power Generation Corporation Ltd</li> <li>16. Bharat Aluminum Company Ltd</li> <li>17. Ambuja Cements Ltd</li> <li>18. Jaiprakash Power Venture Ltd</li> <li>19. Reliance Cement Company Pvt. Ltd</li> </ol>

Para	Recommendations	Action Taken												
	2019.	<p><b>20. Ultra tech Cement Ltd</b></p> <p><b>The Following PRIVATE COAL COMPANIES</b> have provided ATR and Agenda :</p> <ol style="list-style-type: none"> <li>1. Amelia-868</li> <li>2. Bharat Aluminium-891</li> <li>3. Gare-Palma-IV/4-887</li> <li>4. Gare Palma-IV/5-894</li> <li>5. NTPC-Pakri, Dulanga and Talapalli-895</li> <li>6. GIPCL- 952</li> <li>7. CSPGCL-Gare - Palma-III-916</li> <li>8. Jamarpani CB-Uttar Pradesh Vidyut- 921</li> <li>9. Moher and Moher Amlohri-Sasan power-Reliance-926</li> <li>10. Bicharpur-Ultratech Cement Ltd-</li> <li>11. Mark Mangali CM-Topworth Urja &amp; Metals-936</li> <li>12. Odisha Coal and Power Ltd. -938</li> <li>13. Sunflag Iron &amp; Steel Co. Ltd- 943</li> <li>14. Sial Ghogri-West Bengal PDCL- 948</li> <li><b>15. Kathuatia OCCM-Hindalco-957</b></li> </ol>												
m	<p><b>Status of statutory manpower:</b></p> <ol style="list-style-type: none"> <li>i. Shri Ramendra Kumar of AITUC raised the issue of shortages of statutory manpower. He further said that the root cause of shortages in statutory manpower is due to the post of blocked for non-availability of suitable SC/ST candidates even though many eligible candidates are available. He suggested such posts may be de-notified and all eligible persons may be allowed to fill up the vacancies. He further said that requirement of statutory manpower in each mine should be assessed by DGMS.</li> <li>ii. Dr B K Rai of BMS desired that DGMS should conduct statutory competency examination regularly.</li> <li>iii. Shri Manas Kumar</li> </ol>	<p><b>1. DGMS:</b> It is being reviewed during inspection of the mines by the officers of this Directorate.</p> <p><b>2. CIL:</b> Details of statutory manpower and steps taken to fill up the shortage is given in <b>Agenda Item no. VII.</b> There has been significant mechanization and automation in mine operations and monitoring system in recent time. Keeping in view of these recent changes, process of reassessing the realistic requirement of mining supervisors is being done.</p> <p><b>3. SCCL:</b> <b>A. MINING EXECUTIVES :</b></p> <table border="1" data-bbox="767 1608 1350 1906"> <thead> <tr> <th>Category</th> <th>Require-ment (2020-21)</th> <th>MOR as on 30.11.2020</th> <th>Variance (+/-)</th> </tr> </thead> <tbody> <tr> <td>Mining Executives (I &amp; II)</td> <td>964</td> <td>865</td> <td>-99</td> </tr> <tr> <td><b>Total</b></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Recruitment of 83 Mining Executives through</p>	Category	Require-ment (2020-21)	MOR as on 30.11.2020	Variance (+/-)	Mining Executives (I & II)	964	865	-99	<b>Total</b>			
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<b>Total</b>														

Para	Recommendations	Action Taken																																				
	<p>Mukherjee of CITU desired that Mine Surveyor should be used for designated statutory jobs only.</p> <p>iv. Citing several court cases, Shri N Gopalkrishnan of CMOAI desired that HR function of CIL should be improved. He further suggested that current "Promotion Policy" of CIL may be re-looked keeping view of wide resentment among E-6 level mining executives. DP, CIL mentioned that the same will be discussed separately in CIL.</p> <p>v. DGMS explained the house about current system of conducting competency examination through on-line method. He said that examination for Mining Sirdar shall be held after Sept. 2020.</p>	<p>internal and external is under process.</p> <p><b>B. MINING SUPERVISORY STAFF:</b></p> <table border="1" data-bbox="767 344 1390 797"> <thead> <tr> <th>Category</th> <th>Requirement (2020-21)</th> <th>MOR as on 30.11.20</th> <th>Variance (+/-)</th> </tr> </thead> <tbody> <tr> <td>Overman</td> <td>988</td> <td>794</td> <td>-194</td> </tr> <tr> <td>Mining Sirdar</td> <td>438</td> <td>759</td> <td>321</td> </tr> <tr> <td>Shot firer</td> <td>822</td> <td>683</td> <td>-139</td> </tr> <tr> <td>MS+SF</td> <td><b>1260</b></td> <td><b>1442</b></td> <td><b>182</b></td> </tr> <tr> <td>Total</td> <td><b>2248</b></td> <td><b>2236</b></td> <td><b>-12</b></td> </tr> </tbody> </table> <p>➤ <b>415</b> mining diploma holders acquired Overman certificate are utilized as Shot firer / Mining Sirdar to get experience before deployment them as Overman. They will be given authorization to work as Overman against the vacancy. 102 mining diploma holders working as JMET (MS/SF) are yet to acquire Overman competency certificate.</p> <p><b><u>E&amp;M Supervisors:</u></b></p> <table border="1" data-bbox="767 1211 1358 1529"> <thead> <tr> <th>Category</th> <th>Requirement (2020-21)</th> <th>MOR as on 30.11.20</th> <th>Variance (+/-)</th> </tr> </thead> <tbody> <tr> <td>Ele. Supervisor</td> <td><b>356</b></td> <td><b>358</b></td> <td><b>02</b></td> </tr> <tr> <td>Mech. Supervisor</td> <td><b>374</b></td> <td><b>338</b></td> <td><b>-36@</b></td> </tr> </tbody> </table> <p><b>MECHANICAL SUPERVISORS -</b></p> <p>@Recruitment of 56 AFM (Mech.) diploma holders from Internal was under process.</p> <p><b>4. NLCIL:</b> There is shortage of Overman and Mining Sirdar certificate holder for which action for recruitment is under process.</p> <p><b>5. Moher and Moher Amlohri Extn. OCP:</b> Total requirement of statutory manpower is 86. Recruitment process to meet the requirement, is ongoing &amp; regular process at our mine.</p> <p><b>6. Gare Palma IV/4 Coal Mines:</b> Sufficient</p>	Category	Requirement (2020-21)	MOR as on 30.11.20	Variance (+/-)	Overman	988	794	-194	Mining Sirdar	438	759	321	Shot firer	822	683	-139	MS+SF	<b>1260</b>	<b>1442</b>	<b>182</b>	Total	<b>2248</b>	<b>2236</b>	<b>-12</b>	Category	Requirement (2020-21)	MOR as on 30.11.20	Variance (+/-)	Ele. Supervisor	<b>356</b>	<b>358</b>	<b>02</b>	Mech. Supervisor	<b>374</b>	<b>338</b>	<b>-36@</b>
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Para	Recommendations	Action Taken
		<p>Statutory Manpower is available.</p> <p><b>7. Kathuatia Opencast Coal Mines:</b> No shortage of statutory persons. Present status is : 1. Mining sirdar(M/S) = 18 2. Overman(O/M) = 17 3. ACMs = 4. First Class Manager= 5</p> <p><b>8. Chotia Mine-II:</b> Available as per requirements.</p> <p><b>8. OCPL:</b> Adequate numbers of statutory persons have been appointed in OCPL's mine. Recruitment process is going on to enhance the statutory bench strength.</p> <p><b>9. Gare Palm Sec-III:</b> Shortage exists against production target as per Mines plan.</p> <p><b>10. WBPDCCL:</b> In WBPDCCL mines statutory manpower as assessed by DGMS is being deployed to look after the safety of the mine and the person working therein.</p> <p><b>11. SUNFLAG IRON AND STEEL LTD.:</b> Sufficient number of Statutory persons available in our Mines.</p> <p><b>12. SAIL:</b> Status of statutory personnel has been given at Part B(g).</p> <p>SAIL Collieries Division has been allowed UG trainings to enable candidates to appear in statutory examinations conducted by DGMS.</p> <p><b>13. NTPC:</b></p> <p><b>I) Pakri Barwadih:</b> There are 15 nos. of Asst. Managers appointed in the mine as per the norms of DGMS and 13 no's of Executive trainees are eligible for obtaining SMMC which will fulfill the requirement of Asst. Manager. Additional 08 no's of Executive Trainee Mining(Mining Engg. Graduates) have joined who will be eligible for SCC after completion of training period. 16 nos. of Overman certificate holders are deployed. Additionally, 6 Diploma holders are appointed and</p>



Para	Recommendations	Action Taken
		<p>they will be eligible for overman certificate after completion of training.</p> <p><b>ii) Dulanga:</b> There are 12 no's of Asst. Managers appointed in the mine as per the norms of DGMS and 07 no's of Executive trainees are eligible for obtaining SMMC which will fulfill the requirement of Asst.Manager. 06 no's of Overman are deployed. Additional 05 nos. Diploma holders are appointed and they have applied for Overman certificate after completion of training.</p> <p><b>iii) Talaipalli :</b> There are 3 nos. of Asst.Managers appointed in the mine as per the norms of DGMS and 05 nos. of Executive trainees are eligible for obtaining SMMC which will fulfill the requirement of Asst. Manager. Additional 7 number of Executive trainees has been recruited this fiscal.12 numbers of Overman have been deployed. 03 Diploma trainees have applied for overman's certificate of competency.</p>
n	<p><b>Ratification of recommendations of ILO-176</b></p> <p>i. Shri Ramendra Kumar, Shri Surendra Kumar Pandey and Shri Manas Mukherjee desired that the Govt. of India should ratify the recommendations of ILO-176 for ensuring protection of workers' occupational health and safety, which was pending for a long time. They stated that already 91 countries have ratified the same.</p> <p>ii. Joint Secretary, MOL&amp;E, informed that existing statutes are to be compared with provisions of ILO-176 before taking a call on the issue. Secretary (Coal) assured to take up the issue with Secretary, MoL&amp;E.</p> <p>iii. Hon'ble Minister advised the Secretary (Coal) to prioritise this issue.</p>	<p>1. Secretary, Coal, vide DO letter dated 28.05.2020, has requested Secretary, L&amp;E to take necessary action towards ratification of the ILO Convention 176.</p> <p><b>2. DGMS</b></p> <p>Most of the provisions of the ILO convention 176 are already absorbed either directly in the law or put in practice through circular/instructions.</p> <p>Certain provisions of ILO convention 176 as given in Annexure-G are not covered in national laws.</p> <p>Therefore, it would be appropriate to consider the views of all the stakeholders before arriving at any conclusion.</p> <p>Ministry may take up the matter.</p>

Para	Recommendations	Action Taken
o	<p><b>Bio-metric attendance</b></p> <p>i. Dr B K Rai of BMS mentioned that as per Govt. of India directives bio-metric attendance is mandatory, but compulsory bio-metric attendance for contractual employees are yet to be made.</p> <p>ii. DP, CIL informed the house that barring two areas; attendance of all departmental employees in CIL are made through biometric system.</p>	<p><b>1. CIL:</b> Efforts have been made to have 100% coverage of Contractors' Workers under Biometric Attendance System.</p> <p>As on 30.11.2020, as per reports received from subsidiaries, approx. 78% Contractors' workers and 95% of Departmental employees have been covered under the Biometric Attendance System.</p> <p>A Bipartite Committee consisting of representatives of Management of CIL/Subsidiaries and Central Trade Unions is monitoring implementation of the Biometric Attendance System.</p> <p>As a preventive measure to contain the outbreak of COVID-19, Biometric Attendance System in CIL/Subsidiaries have been discontinued temporarily and earlier system of attendance has been put in place in terms of the communication dated 09.03.2020 of Ministry of Coal, Govt. of India.</p> <p><b>2. SCCL:</b>Presently, capturing of attendance in all offices, General Managers' offices and Corporate office through Finger Print Identification is being successfully implemented since June 2016. Based on the above, 239 units are proposed for opencast mines and surface departments and the process of tendering is under process.</p> <p>Regarding contract employees, bio-metric attendance system is implemented at Corporate as a pilot project.</p> <p>Presently, due to COVID-19 situation, this operation is suspended as per Government guidelines. This system will be extended to all areas, after the COVID-19 situation comes under control.</p> <p><b>3. NLCIL:</b> 100% bio-metric attendance has been implemented at NLCIL for contractual employees also.</p> <p><b>4. Moher and Moher Amlohri Extn. OCP:</b> 100% Attendance (both in &amp; out) is through the 'Electronic Face Recognition System'.</p>

Para	Recommendations	Action Taken
		<p><b>5. Gare Palma IV/4 Coal Mines:</b> Yes (Presently we are using Face Recognition m/c due to COVID-19 pandemic)</p> <p><b>6. Kathuatia Opencast Coal Mines:</b></p> <p>Present status of bio metric attendance device:  Mine office- 02Nos</p> <p>Contractor time office- 01 Nos</p> <p>CT office- 01 Nos</p> <p><b>7.Chotia Mine-II:</b>Implemented for Company as well as contractual employees.</p> <p><b>8. Gare Palma IV/8 Coal Mines:</b> Bio-metric attendance monitoring machines have already been installed; the same has been temporarily stopped due to Covid19 pandemic.</p> <p><b>9. OCPL:</b>Biometric attendance system exists for OCPL employees and mine operators work persons.</p> <p><b>10. Gare Palm Sec-III:</b> Bio- Metric attendance suspended due to covid-19.</p> <p><b>11. WBPDC:</b> Bio-metric attendance system has been introduced in all the mines of WBPDC.</p> <p><b>12. GIPCL:</b> -Matter convey to contractors for needful action and implementation.</p> <p>Before deployment in the mine, all contractual workmen is provided vocational training as per MVTR 1966</p> <p><b>13. SUNFLAG IRON AND STEEL LTD.:</b> Bio-metric attendance system is available and now it is on hold due to COVID-19.</p> <p><b>14. SAIL :</b> Implementation deferred due to outbreak of COVID-19.</p> <p><b>15. NTPC:</b></p> <p><b>a. PakriBarwadih: CMP:</b>Biometric attendance system is implemented for departmental as well as Contractual workers Through MDO in PB Coal mines, NTPC Limited</p>

Para	Recommendations	Action Taken
		<p><b>b. Dulanga CMP:</b> Biometric attendance system is implemented for departmental as well as Contractual workers in Dulanga mines, NTPC Limited.</p> <p><b>c. Talaipalli CMP:</b> Biometric attendance system is implemented for departmental as well as Contractual workers in Talaipalli Coal mining Project.</p>
p	<p><b>Securities of employees working in coalfields</b></p> <p>i. Citing recent murder of employee during night shift in SECL, Dr B K Rai of BMS desired appropriate steps in consultation with concerned State Government must be taken for ensuring security of employees. He desired MOC to take up matter with Chief Secretary of Madhya Pradesh to enhance security of employees residing in the coalfields.</p> <p>ii. Shri Ramendra Kumar of AITUC also mentioned about lawlessness in coalfields of CCL and desired security of employees should be ensured.</p> <p>iii. Shri Surendra Kumar Pandey of BMS desired that private security guard may be engaged in place of “NAGAR SAINIK” in coal mines of Chhattisgarh under SECL and he expressed his unhappiness over role of CISF in the context of ensuring security of employees in SECL.</p>	<p><b>1. CIL:</b> All issues related to law and order problems are being dealt adequately by subsidiaries as and when such a situation arises.</p> <p><b>2. SCCL:</b> SCCL is spread over six districts viz., Bhadradi Kothagudem, Khammam, Prof. Jaya Shankar Bhupalpalli, Peddapalli, Mancherial and Komuram Bheem of Telangana State.</p> <p>SCCL has established Security &amp; Protection Corps (S&amp;PC) for the protection of the mines, departments and colonies. SCCL has also engaged CISF personnel in some locations of the company.</p> <p><b><u>Support from State Law and Order Machineries</u></b></p> <p>Liaison with local police by the SCCL and a system of regular communication by Security Officials is in place. With this system, every activity related to thefts, Dharnas, Strikes etc. is being discussed at various levels depending on the gravity. Crimes are kept under control and the law and order is maintained.</p> <p><b>3. NLCIL:</b> At NLCIL, security of Employees and property has been entrusted with CISF.</p> <p><b>4. Moher and Moher Amlohri Extn. OCP:</b> We have a very sound security system having 231 Security Guards.</p> <p>Many critical locations are under constant surveillance and monitored through 38 nos. of CCTV / PTZ cameras, on 24 hours basis</p> <p>Inside the mine, Walkie-talkie is provided for communication between security guards.</p>

Para	Recommendations	Action Taken
		<p><b>5. Gare Palma IV/4 Coal Mines:</b> Yes. Provided.</p> <p><b>6. Kathuatia Open Cast Coal Mine:</b></p> <ol style="list-style-type: none"> <li>1. Fixed Route Chart for vehicle.</li> <li>2. All vehicles of shift are leaving and entering in Mines at a time.</li> <li>3. we have two types of forces available 24 hours at mine <ul style="list-style-type: none"> <li>- Armed Guard</li> <li>- Well trained Guard</li> </ul> </li> <li>4. Time to time Mock drill.</li> </ol> <p><b>7. Chotia Mine-II:</b> NA, Issue was raised in 44<sup>th</sup> meeting for CISF, No CISF deployed, Eagle hunter security Team deployed for security of employees.</p> <p><b>8. Gare Palma IV/8 Coal Mines:</b> M/s- SIS has been deployed for security services within the mine premises.</p> <p><b>9. OCPL:</b> Security of OCPL employees is fully ensured while at work. 38 nos. of well-trained security personnel are deployed at OCPL.</p> <p>Apart from this, mine operator has provided 37 nos. of security personnel for ensuring security of its work persons.</p> <p><b>10. Gare Palm Sec-III:</b> Private security guard posted at main entry of the office but not sufficiently enough.</p> <p><b>11.SUNFLAG IRON AND STEEL LTD.:</b> None of such issue reported at our Coal Mine.</p> <p><b>12. NTPC:</b></p> <p><b>a. Pakri Barwadih: CMP:</b> Personnel from Jharkhand State Industrial Security Force have been deployed in mines for safety of men and material.</p> <p><b>b. Dulanga CMP:</b> Personnel from Odisha Industrial Security Force have been deployed in mines for safety of men and material</p> <p><b>c. Talaipalli CMP:</b>Personnel from Chhattisgarh Armed Forces and DGR sponsored security guards have been deployed in mines for safety of men and</p>

<b>Para</b>	<b>Recommendations</b>	<b>Action Taken</b>
		material.

**Annexure-1****Status of 30T /25T Anchorage Testing Machines (ATMs)**

<b>Comp.</b>	<b>No. of producing UG Mines</b>	<b>No of Mines using resin capsules</b>	<b>30 T Anchorage Testing m/c availability</b>	<b>25 T Anchorage Testing m/c availability</b>	<b>Remarks / Action Plan for further</b>
ECL	58	3	4	87	-
BCCL	11	1	3	0	-
CCL	7	1	5	12	-
WCL	25	21	18	62	Indent raised for 20 Nos. 30 T & 5 nos. 50 T Machine
SECL	47	41	48	150	Order for 72 Nos. of 30 Te Anchorage Testing Machine has been placed vide no. 03 dated 04.04.2019, out of which 20 Nos. have been supplied. Balance 52 Nos. will be supplied shortly. Supply for balance 52 Nos. has been delayed due to COVID-19.
MCL	4	1	5	0	-
Total	152	68	83	311	

## CIL FIRST MILE CONNECTIVITY PROJECTS

Status as on 11.12.2020

SN	FMC Projects	Nos.	Capacity (Mty)	Project Name
1	Total number of FMC Projects	35	404.5	
<b>Projects Commissioned- 2 Nos.</b>				
2	Number of Projects Commissioned	2	26	Kusmunda PH-I (10 Mty), Lingaraj 16Mty)
<b>Projects where Tender awarded and under construction - 8 Nos.</b>				
3	Number of Projects where Tender awarded and under construction	8	101	SonepurBazari (12Mty) (90%),Kusmunda PH-II(40Mty) (88%), Krishnashila(4Mty) (97%), Jayant (15Mty) (4%), Block- B Rail connectivity (70%), Hingula (10 Mty) (45%); Bhubaneswari PH-I (10Mty) (94%), Lakhanpur- Belpahar-Lilari- PH-I (10Mty), (2%)
<b>Projects where LOA issued and WO awarded</b>				
4	Number of Projects where LOA issued and WO awarded	7	84.5	Rajmahal (10 Mty),Jhanjra UG (5Mty),Manikpur (5 Mty),Gevra RLS (20 Mty), Block B (4.5 Mty) Gevra(5&6) (30 Mty), and Dudhichua (10 Mty)
<b>Projects where Tender floated and under evaluation - 16 Nos.</b>				
5	Number of Projects where tender floated and under evaluation	16	178	Amrapali (12 Mty), North Urimari (7.5 Mty), Magadh (20 Mty), Dinesh (8Mty), Ananta (20 Mty),Bhubaneswari PH-II (15 Mty), Lajkura RLS (15 Mty), Sardega RLS (20 Mty), Nigahi (10 Mty), Bina- Kakri Amalgamation (9.5 Mty), Chhaal (6 Mty), Baraud (10 Mty), Kusmunda PH-III (In pit Belt conveyor) and Dipka RLS (15 Mty), Amlohri RLS (5 Mty), and Dudhichua RLS (5 Mty).
<b>Projects where Tender floated but Bids yet to be opened</b>				
6	Number of Projects where Tender floated but bids yet to be opened	2	15	Kaniha (10 Mty) and Konar (5 Mty)



## Agenda Item No. III

### Details of fatal and serious accidents in between 44<sup>th</sup> meeting and 45<sup>th</sup> meeting (From 12.02.2020 to 30.11.2020)

#### 1. Overall in CIL:

Sl. No.	Parameters	In numbers
1	Fatal accidents	23
2	Fatalities	23
3	Serious accidents	53
4	Serious injuries	58

#### Company-wise, Fatal Accidents, Fatalities, Serious Accidents & Serious Injuries (From 12.02.2020 to 30.11.2020)

Company	Fatal Accidents	Fatalities	Serious Accidents	Serious injuries
ECL	4	4	14	16
BCCL	1	1	6	6
CCL	0	0	5	5
NCL	2	2	12	13
WCL	3	3	6	7
SECL	9	9	9	10
MCL	4	4	1	1
NEC	0	0	0	0
CIL	<b>23</b>	<b>23</b>	<b>53</b>	<b>58</b>

**2. SCCL: Details of fatal and serious accidents in between 44th meeting and 45th meeting (From 13.02.2020 to 20.12.2020):**

Sl. No.	Parameters	Number
1	No. of Fatal accidents	8
2	No. of fatalities	11
3	No. of Serious accidents	79
4	No. of Serious injuries	83

**3. NLCIL:NIL**

**4. Gare Palma IV/4 Coal Mines: NIL**

**5. Chotia Mine-II: NIL**

No Fatal or Serious accidents occurred between 44th meeting and 45th meeting.

**6. OCPL: NIL**

**7. WBPDC:** No fatality in between 44th and 45th Meeting (i.e, from 12.02.2020 to 26.08.2020,till date)

**8. GIPCL:**No fatal and serious accident in GIPCL both Lignite Mine(Valia Lignite Mine:& Vastan Lignite Mine)

**9. BELGAON COAL MINE of Sunflag Iron & Steel Co. Ltd.:NIL**

**10. SAIL:**

**Details of Fatal and Serious Accidents in between 44thand 45th meeting**

**Below Ground**

Year	Serious			Fatal		
	Contractual	Departmental	Total	Contractual	Departmental	Total
01.01.2020 till date	01	Nil	01	01	0	01

**Opencast**

Year	Serious			Fatal		
	Contractual	Departmental	Total	Contractual	Departmental	Total
01.01.2020 till date	Nil	01	01	Nil	Nil	Nil

## Agenda Item No.-IV

### Details of fatal and serious accidents for last three years & Current Year

#### A. OVERALL SAFETY STATISTICS (DGMS)

Sl. No.	Parameters	2017	2018	2019	2020
1	Number of fatal accidents	56	49	53	31
2	Number of Fatalities	61	62	58	34
3	Number of Serious Accidents	266	266	193	62
4	Number of Serious Injuries	272	280	204	70

Note : Serious injuries of fatal accidents are also considered in computation of number of serious injuries as well as rates for serious injury. Figures updated as on 30.11.2020 and figures for the year 2017, 2018 & 2019 are provisional.

#### A. SAFETY STATISTICS IN CIL:

Overall fatality rate & serious injury rate per million tonne of coal production and per 3 lakh man shifts deployed in CIL.

Sl. No.	Parameters	2017	2018	2019	2020*
1	Numbers of fatal accidents	34	33	30	24
2	Numbers of fatalities	37	43	34	24
3	Numbers of serious accidents	108	89	86	66
4	Numbers of serious injuries	108	98	90	73
5	Fatality Rate per Mt. of coal production	0.07	0.07	0.06	0.04
6	Fatality Rate per 3 lakhs man shifts deployed	0.16	0.18	0.15	0.12
7	Serious injury Rate per Mt. of coal production	0.19	0.16	0.15	0.13
8	Serious injury Rate per 3 lakhs man shifts deployed	0.46	0.41	0.40	0.36

\* up to November, 2020

#### a). Company-wise Fatal Accidents, Fatalities, Serious Accidents & Serious Injuries during last three years and current year in CIL.

Company	Fatal Accidents				Fatalities				Serious Accidents				Serious Injuries			
	17	18	19	20*	17	18	19	20*	17	18	19	20*	17	18	19	20*

Company	Fatal Accidents				Fatalities				Serious Accidents				Serious Injuries			
	17	18	19	20*	17	18	19	20*	17	18	19	20*	17	18	19	20*
ECL	9	1	7	5	9	2	7	5	20	24	18	18	20	25	18	22
BCCL	2	2	6	1	2	2	6	1	13	7	10	9	13	7	12	9
CCL	5	5	2	0	6	8	2	0	5	9	4	6	5	16	4	6
NCL	3	3	2	2	3	3	2	2	10	8	12	12	10	8	12	13
WCL	3	2	2	3	3	5	2	3	18	17	16	6	18	17	17	7
SECL	7	12	6	9	9	15	7	9	36	20	22	12	36	21	23	13
MCL	5	8	5	4	5	8	8	4	6	4	4	3	6	4	4	3
NEC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>CIL</b>	<b>34</b>	<b>33</b>	<b>30</b>	<b>24</b>	<b>37</b>	<b>43</b>	<b>34</b>	<b>24</b>	<b>108</b>	<b>89</b>	<b>86</b>	<b>66</b>	<b>108</b>	<b>98</b>	<b>90</b>	<b>73</b>

\* up to November, 2020

**b). Company-wise Cause-wise Fatal Accidents & Fatalities during last 3 years and current year in CIL.**

Company	Year	Roof fall /side fall		Haulage, winding, conveyor		Trucks, wagons & dumpers		Non-transp m/c		Explosives		Electricity		Others		Total	
		A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F
ECL	2017	2	2	1	1	1	1	3	3	0	0	1	1	1	1	9	9
	2018	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	2
	2019	1	1	0	0	0	0	3	3	0	0	1	1	2	2	7	7
	2020*	2	2	1	1	0	0	1	1	0	0	0	0	1	1	5	5
BCCL	2017	0	0	1	1	1	1	0	0	0	0	0	0	0	0	2	2
	2018	0	0	0	0	1	1	0	0	0	0	1	1	0	0	2	2
	2019	0	0	0	0	2	2	1	1	1	1	0	0	2	2	6	6
	2020*	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
CCL	2017	0	0	0	0	1	1	1	1	1	1	1	1	1	2	5	6
	2018	0	0	1	1	0	0	1	1	0	0	2	2	1	4	5	8
	2019	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	2
	2020*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NCL	2017	0	0	0	0	2	2	1	1	0	0	0	0	0	0	3	3
	2018	0	0	0	0	2	2	0	0	0	0	0	0	1	1	3	3
	2019	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
	2020*	0	0	0	0	2	2	0	0	0	0	0	0	0	0	2	2
WCL	2017	2	2	0	0	0	0	0	0	0	0	0	0	1	1	3	3
	2018	1	4	0	0	0	0	0	0	0	0	0	0	1	1	2	5
	2019	0	0	0	0	0	0	1	1	0	0	0	0	1	1	2	2
	2020*	1	1	0	0	0	0	0	0	0	0	0	0	2	2	3	3
SECL	2017	2	4	0	0	2	2	0	0	1	1	0	0	2	2	7	9

Company	Year	Roof fall /side fall		Haulage, winding, conveyor		Trucks, wagons & dumpers		Non-transpt m/c		Explo-sives		Electricity		Others		Total	
	2018	2	3	0	0	3	3	5	5	0	0	1	1	1	3	12	15
	2019	1	2	1	1	0	0	2	2	0	0	0	0	2	2	6	7
	2020*	1	1	1	1	2	2	2	2	1	1	0	0	2	2	9	9
	2017	0	0	0	0	3	3	2	2	0	0	0	0	0	0	5	5
MCL	2018	0	0	1	1	1	1	2	2	0	0	2	2	2	2	8	8
	2019	0	0	0	0	1	1	2	2	0	0	1	1	1	4	5	8
	2020*	1	1	0	0	0	0	1	1	0	0	0	0	2	2	4	4
	2017	6	8	2	2	10	10	7	7	2	2	2	2	5	6	34	37
CIL	2018	4	9	2	2	7	7	8	8	0	0	6	6	6	11	33	43
	2019	2	3	2	2	5	5	10	10	1	1	2	2	8	11	30	34
	2020*	5	5	2	2	5	5	4	4	1	1	0	0	7	7	24	24

\* up to November, 2020

“Others”- Includes ‘fall of object / person’, ‘fall of partings’, ‘Gas, dust, ‘Inundation’ and other miscellaneous causes.

A-Fatal Accident

F-Fatality

**c). Company-wise Cause-wise Serious Accidents & Serious Inj. during last 3 years and current year in CIL**

Company	Year	Roof fall /side fall		Haulage, winding, conveyor		Trucks, wagons & dumpers		Non-transpt m/c		Explosives		Electricity		Others		Total	
		A	I	A	I	A	I	A	I	A	I	A	I	A	I	A	I
ECL	2017	2	2	1	1	1	1	2	2	0	0	0	0	14	14	20	20
	2018	4	5	5	5	1	1	3	3	0	0	0	0	11	11	24	25
	2019	0	0	5	5	0	0	3	3	1	1	0	0	9	9	18	18
	2020*	4	4	6	8	0	0	2	4	0	0	0	0	6	6	18	22
BCCL	2017	1	1	1	1	0	0	0	0	0	0	0	0	11	11	13	13
	2018	2	2	1	1	1	1	0	0	0	0	0	0	3	3	7	7
	2019	0	0	0	0	0	0	1	1	1	3	0	0	8	8	10	12
	2020*	1	1	2	2	0	0	1	1	0	0	1	1	4	4	9	9
CCL	2017	0	0	0	0	0	0	1	1	0	0	1	1	3	3	5	5
	2018	1	1	1	1	0	0	1	1	1	2	1	1	4	10	9	16
	2019	0	0	0	0	0	0	1	1	0	0	1	1	2	2	4	4
	2020*	0	0	0	0	3	3	1	1	0	0	0	0	2	2	6	6
NCL	2017	0	0	0	0	3	3	0	0	0	0	0	0	7	7	10	10
	2018	0	0	0	0	4	4	1	1	0	0	0	0	3	3	8	8
	2019	0	0	0	0	5	5	4	4	0	0	0	0	3	3	12	12
	2020*	0	0	0	0	5	5	5	6	0	0	0	0	2	2	12	13
WCL	2017	1	1	0	0	1	1	0	0	0	0	0	0	16	16	18	18
	2018	3	3	3	3	2	2	0	0	0	0	1	1	8	8	17	17

Company	Year	Roof fall /side fall		Haulage, winding, conveyor		Trucks, wagons & dumpers		Non-transpt m/c		Explosives		Electricity		Others		Total	
		A	I	A	I	A	I	A	I	A	I	A	I	A	I	A	I
		2019	2	2	1	1	2	2	3	4	1	1	2	2	5	5	16
2020*	1	2	2	2	0	0	1	1	0	0	0	0	2	2	6	7	
SECL	2017	5	5	0	0	3	3	5	5	1	1	1	1	21	21	36	36
	2018	4	5	2	2	1	1	3	3	0	0	0	0	10	10	20	21
	2019	2	2	2	2	0	0	9	10	1	1	1	1	7	7	22	23
	2020*	2	2	1	1	3	3	1	1	1	1	0	0	4	5	12	13
MCL	2017	0	0	0	0	1	1	0	0	0	0	0	0	5	5	6	6
	2018	0	0	0	0	1	1	0	0	0	0	0	0	3	3	4	4
	2019	0	0	0	0	0	0	3	3	1	1	0	0	0	0	4	4
	2020*	0	0	0	0	2	2	0	0	1	1	0	0	0	0	3	3
CIL	2017	9	9	2	2	9	9	8	8	1	1	2	2	77	77	108	108
	2018	14	16	12	12	10	10	8	8	1	2	2	2	42	48	89	98
	2019	4	4	8	8	7	7	24	26	5	7	4	4	34	34	86	90
	2020*	8	9	11	13	13	13	11	14	2	2	1	1	20	21	66	73

\* up to November, 2020

Others"- Includes 'fall of object / person', 'fall of partings', 'Gas, dust, 'Inundation' and other miscellaneous causes.

A-Serious Accident

I-Serious Injury

d). Company-wise Place-wise Rate of Fatalities per MT of coal production & 3 Lac Man shifts deployed during last 3 years and current year in CIL:

Company	Rate of Fatalities per MT								Rate of Fatalities per 3 Lac Man shifts							
	Underground				Opencast				Underground				Opencast			
	17	18	19	20*	17	18	19	20*	17	18	19	20*	17	18	19	20*
ECL	0.59	0.23	0.65	0.45	0.13	0.00	0.02	0.03	0.12	0.05	0.16	0.12	0.49	0.00	0.13	0.14
BCCL	0.88	0.00	1.84	0.00	0.03	0.06	0.15	0.04	0.04	0.00	0.10	0.00	0.10	0.23	0.47	0.13
CCL	4.17	5.41	1.74	0.00	0.06	0.09	0.02	0.00	0.26	0.36	0.23	0.00	0.18	0.27	0.05	0.00
NCL	0.00	0.00	0.00	0.00	0.03	0.03	0.02	0.02	0.00	0.00	0.00	0.00	0.24	0.26	0.18	0.20
WCL	0.39	0.84	0.24	0.59	0.02	0.02	0.02	0.02	0.11	0.25	0.07	0.17	0.03	0.03	0.03	0.03
SECL	0.48	0.46	0.21	0.26	0.02	0.06	0.03	0.05	0.22	0.23	0.11	0.12	0.15	0.53	0.29	0.53
MCL	0.00	1.11	0.00	1.80	0.04	0.05	0.06	0.02	0.00	0.28	0.00	0.38	0.44	0.56	0.61	0.26
NEC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>CIL</b>	<b>0.55</b>	<b>0.52</b>	<b>0.43</b>	<b>0.39</b>	<b>0.04</b>	<b>0.05</b>	<b>0.04</b>	<b>0.03</b>	<b>0.13</b>	<b>0.14</b>	<b>0.12</b>	<b>0.11</b>	<b>0.18</b>	<b>0.23</b>	<b>0.18</b>	<b>0.13</b>

\* up to November, 2020

**e).Company-wise Place-wise Rate of Serious Injuries per MT of coal production & 3 Lac Man shifts deployed during last 3 years and current year in CIL**

Company	Rate of Serious Injuries per MT								Rate of Serious Injuries per 3 Lac Man shifts							
	Underground				Opencast				Underground				Opencast			
	17	18	19	20*	17	18	19	20*	17	18	19	20*	17	18	19	20*
ECL	2.23	2.73	1.83	2.04	0.03	0.03	0.02	0.12	0.47	0.62	0.45	0.53	0.12	0.12	0.13	0.58
BCCL	9.64	4.30	4.61	6.36	0.06	0.10	0.26	0.22	0.46	0.18	0.24	0.22	0.20	0.34	0.82	0.67
CCL	4.17	10.81	5.23	1.86	0.05	0.18	0.02	0.08	0.26	0.71	0.70	0.28	0.14	0.55	0.05	0.26
NCL	0.00	0.00	0.00	0.00	0.11	0.08	0.11	0.13	0.00	0.00	0.00	0.00	0.81	0.69	1.08	1.28
WCL	2.17	2.32	1.90	1.18	0.17	0.13	0.18	0.07	0.59	0.68	0.55	0.34	0.23	0.15	0.23	0.08
SECL	1.71	1.11	0.99	0.69	0.08	0.03	0.07	0.04	0.79	0.56	0.52	0.33	0.83	0.27	0.66	0.44
MCL	0.00	0.00	0.00	1.80	0.04	0.03	0.03	0.01	0.00	0.00	0.00	0.38	0.53	0.32	0.30	0.17
NEC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>CIL</b>	<b>2.20</b>	<b>1.94</b>	<b>1.56</b>	<b>1.41</b>	<b>0.08</b>	<b>0.07</b>	<b>0.08</b>	<b>0.07</b>	<b>0.54</b>	<b>0.51</b>	<b>0.44</b>	<b>0.38</b>	<b>0.37</b>	<b>0.32</b>	<b>0.37</b>	<b>0.35</b>

\* up to November, 2020

**f). Company-wise Place-wise Fatal Accidents during last 3 years and current year in CIL:**

Company	Underground				Opencast				Surface				Total			
	17	18	19	20*	17	18	19	20*	17	18	19	20*	17	18	19	20*
ECL	5	1	4	4	2	0	1	1	2	0	2	0	9	1	7	5
BCCL	1	0	1	0	0	0	2	1	1	2	3	0	2	2	6	1
CCL	1	2	1	0	4	1	1	0	0	2	0	0	5	5	2	0
NCL	0	0	0	0	3	2	2	1	0	1	0	1	3	3	2	2
WCL	2	1	1	2	1	0	0	1	0	1	1	0	3	2	2	3
SECL	4	4	2	3	2	7	4	4	1	1	0	2	7	12	6	9
MCL	0	1	0	1	4	4	3	2	1	3	2	1	5	8	5	4
NEC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>CIL</b>	<b>13</b>	<b>9</b>	<b>9</b>	<b>10</b>	<b>16</b>	<b>14</b>	<b>13</b>	<b>10</b>	<b>5</b>	<b>10</b>	<b>8</b>	<b>4</b>	<b>34</b>	<b>33</b>	<b>30</b>	<b>24</b>

\* up to November, 2020

**g). Company-wise Place-wise Fatalities during last 3 years and current year in CIL:**

Com.	Underground				Opencast				Surface				Total			
	17	18	19	20*	17	18	19	20*	17	18	19	20*	17	18	19	20*
ECL	5	2	4	4	2	0	1	1	2	0	2	0	9	2	7	5
BCCL	1	0	1	0	0	0	2	1	1	2	3	0	2	2	6	1
CCL	2	2	1	0	4	1	1	0	0	5	0	0	6	8	2	0
NCL	0	0	0	0	3	2	2	1	0	1	0	1	3	3	2	2
WCL	2	4	1	2	1	0	0	1	0	1	1	0	3	5	2	3
SECL	6	7	3	3	2	7	4	4	1	1	0	2	9	15	7	9
MCL	0	1	0	1	4	4	6	2	1	3	2	1	5	8	8	4
NEC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>CIL</b>	<b>16</b>	<b>16</b>	<b>10</b>	<b>10</b>	<b>16</b>	<b>14</b>	<b>16</b>	<b>10</b>	<b>5</b>	<b>13</b>	<b>8</b>	<b>4</b>	<b>37</b>	<b>43</b>	<b>34</b>	<b>24</b>

\* up to November, 2020

**h) Company-wise Place-wise Serious Accidents during last 3 years and current year in CIL:**

Com	Underground				Opencast				Surface				Total			
	17	18	19	20*	17	18	19	20*	17	18	19	20*	17	18	19	20*
ECL	18	18	15	15	1	1	1	2	1	5	2	1	20	24	18	18
BCCL	10	4	3	3	1	2	3	1	2	1	4	5	13	7	10	9
CCL	2	3	2	1	3	5	0	2	0	1	2	3	5	9	4	6
NCL	0	0	0	0	6	7	10	7	4	1	2	5	10	8	12	12
WCL	8	10	6	3	4	3	6	1	6	4	4	2	18	17	16	6
SECL	23	15	13	6	9	2	7	4	4	3	2	2	36	20	22	12
MCL	0	0	0	1	6	2	4	1	0	2	0	1	6	4	4	3
NEC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>CIL</b>	<b>61</b>	<b>50</b>	<b>39</b>	<b>29</b>	<b>30</b>	<b>22</b>	<b>31</b>	<b>18</b>	<b>17</b>	<b>17</b>	<b>16</b>	<b>19</b>	<b>108</b>	<b>89</b>	<b>86</b>	<b>66</b>

\* up to November, 2020



**i. Company-wise Place-wise Serious injuries during last 3 years and current year in CIL:**

Com.	Underground				Opencast				Surface				Total			
	17	18	19	20*	17	18	19	20*	17	18	19	20*	17	18	19	20*
ECL	18	19	15	17	1	1	1	4	1	5	2	1	20	25	18	22
BCCL	10	4	3	3	1	2	5	1	2	1	4	5	13	7	12	9
CCL	2	4	2	1	3	5	0	2	0	7	2	3	5	16	4	6
NCL	0	0	0	0	6	7	10	8	4	1	2	5	10	8	12	13
WCL	8	10	7	4	4	3	6	1	6	4	4	2	18	17	17	7
SECL	23	16	13	7	9	2	8	4	4	3	2	2	36	21	23	13
MCL	0	0	0	1	6	2	4	1	0	2	0	1	6	4	4	3
NEC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>CIL</b>	<b>61</b>	<b>53</b>	<b>40</b>	<b>33</b>	<b>30</b>	<b>22</b>	<b>34</b>	<b>21</b>	<b>17</b>	<b>23</b>	<b>16</b>	<b>19</b>	<b>108</b>	<b>98</b>	<b>90</b>	<b>73</b>

\* up to November, 2020

**B. SAFETY STATISTICS IN SCCL:**

**Details of fatal and serious accidents for last three years and Current year in SCCL:**

- (i) **Overall Fatality Rate & Serious Injury rate per million tonne of Coal production and per 3 lakh man shifts deployed during last 3 years & Current year in SCCL.**

SI No	Parameters	2017	2018	2019	2020*
1	Fatal Accidents	11	7	8	9
2	Fatalities	12	7	8	12
3	Serious Accidents	213	190	138	91
4	Serious Injuries	219	191	138	95
5	Fatality rate per Mt. Of Coal Production	0.20	0.11	0.12	0.25
6	Fatality rate per 3 lakh man shifts deployed	0.24	0.15	0.19	0.34
7	Serious Injury rate per Mt. of Coal production	3.60	2.91	2.10	1.97
8	Serious Injury rate per 3 lakh manshifts deployed	4.40	4.13	3.30	2.69

(ii) **Fatal Accidents, Fatalities, Serious Accidents & Serious Injuries during last 3 years & Current year in SCCL.**

Fatal Accident				Fatalities				Serious Accident				Serious Injuries			
2017	2018	2019	2020*	2017	2018	2019	2020*	2017	2018	2019	2020*	2017	2018	2019	2020*
11	7	8	9	12	7	8	12	213	190	138	91	219	191	138	95

\*Note: Figures are up to 20th Dec, 2020.

(iii) **Cause-wise Fatal accidents & Fatalities during last 3 years & Current year in SCCL.**

Company	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
SCCL	2017	1	1	2	2	3	3	2	2	-	-	-	-	3	4	11	12
	2018	-	-	-	-	1	1	3	3	-	-	-	-	3	3	7	7
	2019	1	1	1	1	1	1	-	-	-	-	-	-	5	5	8	8
	2020*	1	1	-	-	-	-	-	-	2	5	-	-	6	6	9	12

A = Accident F = Fatality.

(iv) **Cause-wise Serious accidents & Serious Injuries during last 3 years & Current year in SCCL.**

Company	Year	Roof Fall/ side fall		Haulage, Winding, Conveyor		Trucks, Dumpers		Non-Transport M/c.		Explosives		Electricity		Others		Total	
		A	I	A	I	A	I	A	I	A	I	A	I	A	I	A	I
F C C S	2017	15	18	20	20	6	6	8	8	1	2	-	-	163	165	213	219
	2018	13	13	29	29	3	3	7	7	-	-	-	-	138	139	190	191
	2019	11	11	25	25	4	4	1	1	-	-	1	1	96	96	138	138
	2020*	5	6	14	14	1	1	4	4	2	4	-	-	65	66	91	95

A = Accident I = Injured.

(v) **Place-wise rate of Fatalities per 1million tonne of coal production & 3 lakh man shifts deployed during the last 3 years & Current year in SCCL.**

Company	Per M. Te.								Per 3 lakh man shifts							
	Underground				Opencast				Underground				Opencast			
	2017	2018	2019	2020*	2017	2018	2019	2020*	2017	2018	2019	2020*	2017	2018	2019	2020*
<b>SCCL</b>	0.47	0.22	0.44	0.79	0.13	0.07	0.05	0.19	0.15	0.08	0.19	0.23	0.37	0.21	0.17	0.53

Note: Figures are up to 20th Dec, 2020

(vi) Place-wise rate of Serious Injuries during the last 3 years & Current year in SCCL.

Company	Per M. Te.								Per 3 lakh man shifts							
	Underground				Opencast				Underground				Opencast			
	2017	2018	2019	2020*	2017	2018	2019	2020*	2017	2018	2019	2020*	2017	2018	2019	2020*
<b>SCCL</b>	21.09	17.51	12.10	13.64	0.52	0.44	0.30	0.51	6.51	6.46	5.14	3.94	1.41	1.30	0.95	1.47

(vii) Place-wise Fatal accidents & Fatalities during the last 3 years & Current year in SCCL.

Year	Underground		Opencast		Above ground		Total	
	Accident	Fatality	Accident	Fatality	Accident	Fatality	Accident	Fatality
<b>2017</b>	4	4	6	7	1	1	11	12
<b>2018</b>	2	2	4	4	1	1	7	7
<b>2019</b>	4	4	3	3	1	1	8	8
<b>2020*</b>	3	3	4	7	2	2	9	12

(viii) Place-wise Serious accidents & Serious Injuries during the last 3 years & Current year in SCCL

Year	Underground		Opencast		Above ground		Total	
	Accident	Injuries	Accident	Injuries	Accident	Injuries	Accident	Injuries
<b>2017</b>	174	179	27	27	12	13	213	219
<b>2018</b>	156	157	25	25	9	9	190	191
<b>2019</b>	109	109	17	17	12	12	138	138
<b>2020*</b>	58	62	15	15	18	18	91	95

\* Note: Figures are up to 20th Dec, 2020.

**C. NLCIL:****Details of fatal and serious accidents for last three years and current year**

Data is being collected

**D. Moher and Moher Amlohri Extn. OCP: Detail of fatal and serious accidents for the last three years and current year:**

Data is being collected

**E. Gare Palma IV/4 Coal Mines:**

Year	Fatal	Serious
2017	0	1
2018	0	1
2019	0	0
2020	0	0

**F. Chotia Mine-II:**

Sl. No.	Victim's Name and Designation	Accident Date	Mine	Statutory Compensation	Special Relief (Rs )	Employment
1)	Mr. Ravindra Kumar Yadav (Helper)	26/10/2019	Chotia II Coal Mines	As per workmen compensation act (max. 8 Lakhs)	Four Lakhs through Cheque and 50,000 Cash for funeral	Provided through MDO

**G. OCPL:**

Year	Fatal	Serious	Remark
2018	NIL	NIL	Start of mine operation
2019	NIL	NIL	
2020	NIL	01	

## H. WBPDCCL:

Details of Fatal and Serious Accident between 44<sup>th</sup> and 45<sup>th</sup> Meeting(i.e, 12.02.2020 to 26.08.2020, till date)

Company	Mine	2017		2018		2019		2020(till 26.8.20)	
		Serious Injury	Fatality	Serious Injury	Fatality	Serious Injury	Fatality	Serious Injury	Fatality
WBPDCCL	Barjora(N)	Nil	Nil	Nil	Nil	Nil	4(Outsider)	Nil	Nil
	Pachwara(N)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Barjora	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Gangaramchak	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

## I. GIPCL:

Details of fatal & serious accidents for last 3 years & current year:

### a) Valia Lignite Mine:

#### Accident Trend in Coal Mines in India

Sr. No	Parameters	2016	2017	2018	2019
1	Number of fatal accidents	0	0	1	0
2	Number of fatalities	0	0	2	0
3	Number of serious accidents	0	0	0	0
4	Number of serious injuries	0	0	0	0

### b) Vastan Lignite Mine:

#### Accident Trend in Coal Mines in India

Sr. No	Parameters	2016	2017	2018	2019
1	Number of fatal accidents	0	0	0	0
2	Number of fatalities	0	0	0	0
3	Number of serious accidents	0	0	0	0
4	Number of serious injuries	0	0	0	0

**J. Sunflag Iron & Steel Co. Ltd.:**

S. No.	Type of Accident, date & Time	Name of person, Age & Gender	Designation	Body part injured	Name of machinery	Place & Reason of accident	Injury details
1.	Serious accident Dtd: 19.02.17, Time: 11:10 AM (1st Shift)	Kamalakar S Gorghate, Age:42 years, Male	Fitter	Left leg	Pneumatic Roof bolting machine	54LN/18DN gallery. While repairing the bolting machine, he operated the liver to lift the adopter, the adopter part reached an unexpected height imbalanced the bolting machine, the machine fell on left leg causing injury.	Fracture in Tibia Fibula of left leg and recovered.

**K. SAIL:**

**Details of Fatal and Serious accident for last three years and current year**

Year	Serious			Fatal		
	Contractual	Departmental	Total	Contractual	Departmental	Total
2017	Nil	Nil	Nil	Nil	Nil	Nil
2018	02	Nil	02	Nil	Nil	Nil
2019	02	Nil	02	01	Nil	01
2020 till date	01	Nil	01	01	Nil	01

**Open Cast**

Year	Serious			Fatal		
	Contractual	Departmental	Total	Contractual	Departmental	Total
2017	Nil	01	01	Nil	Nil	Nil
2018	Nil	Nil	Nil	Nil	Nil	Nil
2019	Nil	Nil	Nil	Nil	Nil	Nil
2020 till Date	Nil	01	01	Nil	Nil	Nil

**Analysis of major accidents that occurred during last one year and status of inquiry & Action Taken:**

**1. CIL: No Major accident in last one year.**

**2. SCCL: Brief description of the accident**

One major accident occurred on 02.06.2020 in RG OC-I, RG-III Area, 1st shift at about 10.25AM, while charging of explosive in hole drilled in stone boulder in offloading area at 790RL`OB bench suddenly blasting of boulder took place causing fatal accidents to 4 persons and injury to 3 persons.

**Analysis of the accident**

The accident took place while charging the boulder with Site Mixed Emulsion (SME) explosive and booster with NONELS (SRI DET) of M/s IDEAL detonators pvt. Ltd.

**Status of inquiry**

Regional Inspector of mines conducted an enquiry and fixed responsibility on Agent, Mine Manager, Asst. Manager and Blasting In charge.

**Action taken**

Based on the enquiry, DGMS filed case in Manthani Court for prosecution of Agent, Mine Manager, Asst. Manager and Blasting In charge. Departmental disciplinary action has also been initiated against above officers based on ISO findings.

**3. Chotia Mine-II:**

S.N O.	Name (s) of victim (s)	Injur y code (n)	Body part Code (mn)	What was the Job being done at the time of accident	Experien ce of victim In (Months)	If vocationally trained in Job being done at the time of accident(Yes/ No)	Initial vocational training (Yes/No)	Date of refresh er trainin g	Nature of job (contractua l/departme ntal)	Cause of death
(1)	(2)	(3)	(4)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1)	Ravindra Kumar Yadav	3 (internal injury)	32 (Chest )	Inspection of the centre pin after greasing of the grader	12 months	Yes	Yes	29/06/2019	Contractual	Got trapped under the right side middle tyre of grader

**4. OCPL: No major accident occurred during last one year.**

**5. WBPDCCL: NIL**

6. **GIPCL:** NIL

7. **Sunflag Iron & Steel Co. Ltd.:** NIL

**8. SAIL: Analysis of major accidents that occurred during last 01(one) year (2019) and status of enquiry and action taken**

**Background**

On 19.06.2019, fourteen manpower were engaged in Block-15 Bottom in XIV seam in "C" Shift in NoonudihJitpur underground Mines apart from Mining Sirdar, Overman and Shift Manager for Conveyor snacking and miscellaneous work in face as planned in the shift. Snacking of Chain Conveyor of Head side was completed and for snacking of tail end side chain conveyor, two contractual workers (General Mazdoor) were engaged for face cleaning between chain conveyor and face near tail end side. Prior to commencement of cleaning operation, dressing of coal face was done by Dresser. Manual shoveling is required due to old machinery and coal extraction method, in front of freshly exposed face in between face and chain conveyor for snacking of chain conveyor. For the cleaning job, Sri Ranjit Singh contractual employee of M/s Nirmal Mining Associates was engaged for shoveling coal at around 18m from tail end of Block 15 Bottom in XIV seam. A very big lump of coal slid and fell on leg of Sri Ranjit Singh. He succumbed to his injuries during treatment at Dhanbad.

**Inspection of site of accident and observations**

Inspection of the site was done by Colliery Manager, Safety Officer, Section In-charge and Workmen Inspector. As per inspection, support was found as per SSR (systematic support Rule) approved by DGMS, however spalling was found in tail end side at the site of accident creating a void of 1.3 x 0.7x 2.2 m at a distance of 18m from tail end gate. The coal lump from this void had slid and fell on leg of Sri Ranjit Singh thus injuring him. He succumbed to his injuries during treatment at Dhanbad. The incidence was also investigated by DDMS, R-III, CZ, DGMS, Dhanbad, who observed as follows:

- As coal in face near the site of accident was found with calcite bands in excess and with multiple cleavages, coal became friable in nature thus got loose and resulted in spalling.
- Although support at the place of accident was found adequate and as per SSR, Supervision in Longwall face should have been more vigilant.

**Preventive Measures: (Action Taken)**

- i. Non-deployment of manpower for cleaning of coal in unsupported area of 0.6 m left as per SSR is being ensured
- ii. Fast progress of Block 15(Bottom) face was ensured. Faster Stowing of extracted area was ensured and after completion of Coal extraction the panel has been sealed.
- iii. Strict compliance of SOP is being ensured.



**Risk assessment & Management**

**1. CIL:**

**(i) No of Mines Covered:**

- All producing mines of CIL and its subsidiary have been covered. Risks assessment based Safety Management Plan (SMP) have prepared in all producing mines as per CMR-2017.

**(ii) Major Activities Completed:**

- Safety Management Plans (SMPs) based on risk assessment including Principal Hazard Management Plan (PHMP) have been prepared.
- Appropriate control measures for mitigation of identified hazards and associated risks are identified.

Some of the major activities as per SMP for underground mines are:

1. Strata Control Management
2. Fire / Spontaneous Heating Management
3. Danger of in-rush of water
4. UG Transport
5. Gas Monitoring
6. Drilling & Blasting Operation
7. Fall of persons

Some of the major activities as per SMP for opencast mines are:

1. Preparation of SOPs for all mining operations.
2. Vehicular Traffic Management in OC.
3. Monitoring slope Stability of bench & OB dumps
4. Risks associated with use of electricity
5. Lighting arrangement
6. Fire Fighting Management
7. Use of bulk explosives
8. Safety of contractor's worker

**(iii) Action Taken:**

- Steps are taken to implement Control measures recommended in the Risk assessment based Safety Management Plans (SMPs).
- Periodic review of SMP is being done at various level.
- Preparation and implementation of Safe Operating Practices (SOP) for different operations in mines.
- Safety Audit conducted where compliance of SMPs are assessed.
- Imparting Specialised Training to support in preparation of Risk Assessment based SMP: Executives who have been trained by SIMTARS, Australia are engaged for imparting training and upgrading knowledge of mine level employees

so that they can identify the hazards & the associated risks and prepare the Risk assessment based Safety Management Plans (SMP).

## **2. SCCL:**

### **(i) Number of Mines covered:**

All mines of SCCL have been covered.

### **(ii) Major Activities completed:**

#### **(iii) Underground Mines:**

1. Mine Fires
2. Inundation
3. Machinery
4. Strata Control
5. Mine Gases
6. Electricity
7. Blasting & Use of Explosives
8. Haulage & Transportation
9. Spontaneous Combustion
10. Occupational Health
11. Emergency Response
12. Miscellaneous Hazards

#### **(iv) Opencast Mines:**

1. Opencast Transport
2. Underground Galleries
3. Blasting & Use of Explosives
4. Slope Stability
5. Mine Fires
6. Electricity
7. Inundation
8. Opencast Machinery
9. Maintenance & Repair of Machinery
10. Coal Handling
11. Occupational Health

12. Emergency Response

13. Miscellaneous Hazards

**(v) Action Taken:**

All the mines of SCCL have well documented SMPs (covering all the Principal hazards in the mining activities) prepared and implemented in line with the provisions of the DGMS Circular No. 5 of 2016. They are periodically revised as per Reg. - 104 of CMR 2017.

**3. NLCIL:**

No. of Mines covered	Major activities completed	Action taken
5 (Neyveli Mine I, Mine IA, Mine II, Barsingsar, Talabira)	Preparation of Safety Management Plan (SMP) for all mines under Reg. 104 of CMR 2017.	SMP has been prepared and the hazards identified are being mitigated as per mitigation measures provided in SMP and SOP has been formulated for all activities and is being complied.  SOPs forms part of SMP and have been prepared for all activities of the mine and has been put into practice.  The mine wise number of SOPs are as follows: Neyveli Mine I=331, Mine IA=280, Mine II=240, Barsingsar Mine=65 & Talabira Mine=60
	Submission of Safety Management Plans to DGMS as per the provisions of Regulation 104 of Coal Mines Regulations 2017.	The Provisions of Reg. 104 of CMR 2017 are fully complied with and copy of Safety Management Plan submitted to DMS/Chennai region, DMS/Ajmer region and DMS/Bhubaneswar region.

**4. Moher & Moher Amlohri Extension OCP: Status of implementation of SMP at Moher & Moher Amlohri Extension OCP**

S.No.	Department	Work plan Number	Subject	Current Status
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S.No.	Department	Work plan Number	Subject	Current Status
1	Technical Services	WP_TECH01	Implementation of SOP of Pit Slope & Dump Slope Stability Implementation of SOP of Drill & Blast Designing	Closed
2	Technical Services	WP_TECH02	Identification of critical areas in Dump periphery Maintenance of Conventional Monitoring Devices	Closed
3	Technical Services	WP_TECH03	Procurement of Slope Stability Radar	Open
4	Technical Services	WP_TECH04	Dealing with Water seepage Problems	Closed
5	HEMM Maintenance	WP_HEMM01	Implementation of SOP of Maintenance procedures in HEMM Implementation of SOP of Maintenance procedures in Dragline	Closed
6	HEMM Maintenance	WP_HEMM02	Audio Visual Alarm in HEMM	Closed
7	HEMM Maintenance	WP_HEMM03	Rear Vision Camera in HEMM	Closed
8	HEMM Maintenance	WP_HEMM04	Proximity Warning Device in Dumpers	Open
9	HEMM Maintenance	WP_HEMM05	Operator Fatigue Warning Device	Open
10	HEMM Maintenance	WP_HEMM06	Monitoring of PM maintenance schedules	Closed
11	HEMM Maintenance	WP_HEMM07	Operator cabin ROPS, FOPS & Air-conditioner	Closed
12	HEMM Maintenance	WP_HEMM08	NDT of HEMM & Dragline	Closed
13	HEMM Maintenance	WP_HEMM09	Inspection of Safety features of HEMM & Dragline	Closed
14	HEMM Maintenance	WP_HEMM10	Isolation Boxes & Implementation of LOTO in HEMM & Dragline	Closed
15	HEMM Maintenance	WP_HEMM11	Implementation of SOP of Nitrogen charging	Closed
16	HEMM Maintenance	WP_HEMM12	Overload protection of Dumpers	Closed
17	HEMM Maintenance	WP_HEMM13	Mechanization of oil, lubrication and housekeeping	Closed
18	HEMM Maintenance	WP_HEMM14	Mechanized Tyre handling	Closed
19	HEMM Maintenance	WP_HEMM15	Use of approved hoses and gauges in HEMM	Closed
20	HEMM Maintenance	WP_HEMM16	Use of leak proof valve assembly	Closed
21	HEMM Maintenance	WP_HEMM17	Guards and Fencings in HEMM	Closed
22	HEMM Maintenance	WP_HEMM18	Drill machine lights as per illumination standards	Closed
23	HEMM Maintenance	WP_HEMM19	Implementation of SOP of Working at Heights during HEMM & Dragline maintenance	Closed

S.No.	Department	Work plan Number	Subject	Current Status
24	HEMM Maintenance	WP_HEMM20	Inspection & timely replacement of Shovel & Dragline ropes	Closed
25	HEMM Maintenance	WP_HEMM21	Use of Dust collectors & Wet drilling in Drills	Closed
26	Electrical Maintenance	WP_ELE01	SLDs, Shock Chart, Labelling & Marking of Electrical Installations	Closed
27	Electrical Maintenance	WP_ELE02	Maintaining Logbooks, shifting of field switches & handling of cable	Closed
28	Electrical Maintenance	WP_ELE03	Use of approved type electrical devices	Closed
29	Electrical Maintenance	WP_ELE04	Safety devices used in electrical installations	Closed
30	Electrical Maintenance	WP_ELE05	Isolation Boxes & Implementation of LOTO in Electrical maintenance	Closed
31	Electrical Maintenance	WP_ELE06	Overhead Line, Lightening Arrestor and Its earthing, cradle guard, anti-climbing device	Closed
32	Electrical Maintenance	WP_ELE07	Dry Type Transformers & Stay Insulators of 33KV	Closed
33	Electrical Maintenance	WP_ELE08	PPE used during Electrical maintenance	Closed
34	Electrical Maintenance	WP_ELE09	Mine Lighting Plan & Illumination Survey	Closed
35	Drilling & Blasting	WP_D&B01	Implementation of SOP of Drilling & Blasting	Closed
36	Drilling & Blasting	WP_D&B02	Implementation of ANFO/SME handling & Mixing & Loading	Closed
37	Drilling & Blasting	WP_D&B03	Use of Permitted explosives and approved Blasting accessories	Closed
38	Drilling & Blasting	WP_D&B04	Implementation of SOP of charging in Hot holes	Closed
39	Drilling & Blasting	WP_D&B05	Provisions related to Transport of Explosives	Closed
40	LNG	WP_LNG01	Implementation of SOP for LNG fitted Dumper maintenance	Closed
41	LNG	WP_LNG02	Implementation of SOP for Operation & Maintenance of LNG Plant	Closed
42	Mine Dewatering	WP_PUMP01	Precautions of Working near Water bodies	Closed
43	Mine Dewatering	WP_PUMP02	Operation & Maintenance of Pumps and Monsoon Planning	Closed
44	Mine Dewatering	WP_PUMP03	Adequate water supply to sprinklers and fire hydrants	Closed
45	Safety	WP_SAFETY01	Implementation & Monitoring of SOPs	Closed
46	Training	WP_VTC01	VTC Training modules & Skill Assessments	Closed

### 5. Gare Palma IV/4 Coal Mines:

(i) No. of mines covered: - 01

(ii) Major activities completed: -

- Review of all the hazards in identifies in SMP was done in the Month of July and August 2019.

- Action plan has been reviewed and updated.

(iii) Action taken:

1. Review of SMP annually
2. Based on the review of SMP controlled measures have been revised
3. Revision of SOP/COP accordingly
4. Training needs Identification and imparting training accordingly.
5. Job safety analysis
6. Implementation of PTW system.
7. Special and refresher training.

## 6. Chotia Mine-II:

No. of mines covered, (ii) Major activities completed, (iii) Action taken.

S.No.	Details	Remarks
1	No. of mines covered	Two numbers (Chotia I & Chotia II Coal Mines)
2	Major activities completed	14
3	Action taken	Implemented and in place

## 7. Gare Palma IV/8 Coal Mines:

- (i) No. of mines covered- 01
- (ii) Major activities Completed- SMP formulated and being complied

## 8. OCPL:

- (i) No. mines covered: 01 (Manoharpur Coal Mine Project)
- (ii) Major activities completed:

Based on Risk Assessment Process, the Safety Management Plan incorporating Safety and Occupational Health Policy has been prepared. The same has been submitted to Director of Mines Safety, Chaibasa region on 14-03-18 for modifications.

- (iii) Action taken:

The mitigation measures suggested in SMP is followed and regularly being discussed in various forums like Pit Safety Committee and Safety tool box talk. However, M/s Bureau Veritas Industrial Services (India) Ltd has been engaged on 08-11-2029 for three financial years to conduct gap analysis workshop, review and modifications in existing Safety Management Plan, training & handholding.

## 9. Gare Palma Sector -III Coal Mine:

Salient Features of Safety Management plan at Gare Palma Sector -III Coal Mine M/s CSPGCL.

S.No	Risks	Hazards	Action Taken as mitigative measure
1	External OB Dump	Dump failure /slide	<ol style="list-style-type: none"> <li>1) Adhering to SOP/COP prepared under Circular of DGMS</li> <li>2) Recommendation made Scientific Study Conducted by CMFER in Feb'2019</li> </ol>
2	Operation of LMV/Mobile HEMM over haul road & dump stockpiles	Collusion & Runover between LMV & HEMM Collusion between similar vehicle or HEMM	<ol style="list-style-type: none"> <li>1) Separate Road for LMV &amp; HEMM</li> <li>2) One-way Traffic</li> <li>3) Adhering to traffic Rules as per the DGMS Circular</li> </ol>
3	Slope stability of OB Benches	Bench Collapse /Slide Slide of persons along with the slide	<ol style="list-style-type: none"> <li>1) Reg 106/CMR 2017 while designing the Bench Height, width based on the rock characters</li> <li>2) Following the recommendation of scientific study conducted on slope stability by CIMFR in Feb 2019</li> </ol>
4	Inundation	Drowning of the M/c & Men & Material, Working area	Advance Action for implementation of the Monsoon Plan prepared considering the catchment area & average rainfall in the last 50 years of the area.
5	Use of Explosives	<ol style="list-style-type: none"> <li>1) Premature blasting</li> <li>2) Fly Rock</li> <li>3) Excessive Vibration</li> <li>4) Fall of Persons in the Blast Hole</li> <li>5) Fall of person in the Cracks after blasting</li> <li>6) Accident during Mis fire Handling</li> </ol>	<ol style="list-style-type: none"> <li>1) Transportation of Explosive accessories in the authorized and separate explosive van driven &amp; operated by authorized person</li> <li>2) Adopting &amp; practicing of Control blasting</li> <li>3) Use of Smaller dia Bore Hole and Covering of Collars of Bore Holes</li> <li>4) Inspection of Blast Face after blasting with competent supervisor and after allowing the time gap for dispersal of fumes</li> <li>5) Handling of Misfires as per the</li> </ol>

			DGMS guideline
6	Operation of Excavators/HEMM	<ol style="list-style-type: none"> <li>1) Collusion with Dumper</li> <li>2) Fall of Boulder on the Dozer while face preparation</li> <li>3) Toppling of HEMM to lower Benches</li> </ol>	<ol style="list-style-type: none"> <li>1) Adhering to the SOP/COP prepared for all class/types of HEMM</li> <li>2) FOPS and ROPS compulsory to all HEMM</li> <li>3) Cabin/Seats are Ergonomically designed</li> </ol>
7	Electrical Over Headlines, Erecting, Maintenance & Operation	<ol style="list-style-type: none"> <li>1) Electrocutation of the persons due to inadequate clearance</li> <li>2) Fall of Persons from Height</li> <li>3) Burning while working at switch gear /discharging of Power Supply</li> <li>4) Inadvertent charging of Power supply</li> </ol>	<ol style="list-style-type: none"> <li>1) Following the guideline as per the IER</li> <li>2) Strong and effective Supervision with skilled &amp; Experienced competent persons</li> <li>3) Work permit procedure for shut down &amp; Charging of supply</li> <li>4) Use of PPE while on Job/working</li> </ol>
8	Working at Sump & Pumps	<ol style="list-style-type: none"> <li>1) Falling of Persons into the sump</li> <li>2) Electrocutation of persons</li> </ol>	<ol style="list-style-type: none"> <li>1) Adequate &amp; Proper Railing around the sump</li> <li>2) Use of Live Jackets</li> <li>3) Well-connected communication</li> <li>4) Proper earthing of all equipment's</li> <li>5) Use of PPE by all persons working on the electrical pumps or otherwise with regards to discharge &amp; Charge.</li> </ol>
9	Fire Fighting at Coal Heaps/Stocks	<ol style="list-style-type: none"> <li>1) Injury to person by burn</li> <li>2) Hit by High pressurized nozzle &amp; hose</li> <li>3) Intoxication due to gas</li> </ol>	<ol style="list-style-type: none"> <li>1) Employing of Skilled manpower.</li> <li>2) Use of PPE &amp; SOP/COP prepared for the purpose.</li> <li>3) Examination by CO detector before start of the work.</li> </ol>
10	Unauthorized Entry to the mine	<ol style="list-style-type: none"> <li>1) Unauthorized entry of the Persons &amp; Cattle in to the mine</li> <li>2) Fall of Persons &amp; cattle in the quarry or working area.</li> <li>3) Injury to the animals and Men to with HEMM, LMV &amp; Electrocutation, blasting etc.</li> </ol>	<ol style="list-style-type: none"> <li>1) Adequate Fencing</li> <li>2) Strict vigilance by security</li> <li>3) Visitors pass &amp; safety induction to all new comers/visitors and other persons.</li> </ol>



## 10. WBPDCCL:

### Risk Assessment and Management

- i) No of Mines covered -4(Four)
- ii) Major Activity: 10 Major activities have been identified for each of the mine of WBPDCCL.

Action Taken: Risk and Hazards Identification and Assessment of all the Major Activities have been completed. The control measure and mitigative action of the Risk and Hazards has been undertaken.

## 11. GIPCL:

### (a) Valia Lignite Mine:

Major risk Assessed	Action taken for management of Risk
Operation & maintenance of HEMM	SOP, COP, standing orders and Transport rule (traffic rule) for Operation & SOP for maintenance of HEMM, Cutting & welding, Inflation of tires, working under suspended load etc. has been formulated, implemented and explained to all concerned. Safety talks are delivered regularly. Compliance is ensured through proper supervision.
Lignite transportation	<ol style="list-style-type: none"><li>1) SOP has been formulated; All truck drivers &amp; helpers are explained in details to follow the safety instructions.</li><li>2) Safety instructions are prominently displayed on boards erected along the transportation road, W/B area and Loading point</li><li>3) Loading operation and movement of trucks are constantly under supervision</li></ol>
Electricity	<ol style="list-style-type: none"><li>1) Only Armoured cable is provided in the mine.</li><li>2) Earth leakage test is carried out &amp; record is maintained.</li><li>3) SOP, COP &amp; Standing orders for electrical works have been framed and distributed .</li><li>4) Regular safety talks delivered to the workmen</li><li>5) Regular inspection &amp; scheduled maintenance of electrical apparatus &amp; appliances is carried out.</li></ol>
Slope stability	<ol style="list-style-type: none"><li>1) Scientific study for pit benches and dump slope stability has been carried out and recommendation has been implemented</li><li>2) Monitoring of Dump slopes and pit benches carried out regularly.</li></ol>

<b>Major risk Assessed</b>	<b>Action taken for management of Risk</b>
Occupational Health	<ol style="list-style-type: none"> <li>1) Pressurized mist water sprinkling arrangement has been provided for suppression of dust.</li> <li>2) Regular Dust survey is conducted.</li> <li>3) Air-conditioned sound proof cabins are provided in HEMM</li> <li>4) Noise &amp; illumination services are carried out regularly.</li> <li>5) Ambient air quality, Water quality test are carried out as per MOEF and GPCB norms.</li> </ol>
Unauthorized entry	Manned security gates/ Check-posts are provided on all entrances
Haul road design	<ol style="list-style-type: none"> <li>1) Haul road has been made as per statute</li> <li>2) Road sign boards and Safety awareness posters in consonance with the Transport Rules are displayed at all strategic places.</li> </ol>
Vocational training	<ol style="list-style-type: none"> <li>1) No employee is engaged for working in mine without Vocational training.</li> <li>2) After vocational training the competency of the candidates is judged by the board constituted by Manager. Only after satisfying with the competency criteria ascertained by Board consisting of AM, SO, Colliery Engineer and, employees are engaged.</li> <li>3) This is ensured through effective &amp; robust supervision</li> </ol>
Medical examination	Every person is medically examined by a qualified doctor as per MR 1955.

**(b) Vastan Lignite Mine:**

<b>Major hazards Activity</b>	<b>Action taken</b>
<ol style="list-style-type: none"> <li>1. HEMM,</li> <li>2. Unauthorized entry,</li> <li>3. Haul Road</li> </ol>	Risk Assessment and hazard identification has been done as per DGMS guideline and methodology. Accordingly, Safety management plan has been made. Hazards areas and critical activities were identified. Hazards associated with them were evaluated and action plans drawn to de-risk the activities.

**12. Sunflag Iron & Steel Co. Ltd.:**

Regular Risk Assessment and Hazard identification through SMP and updating of Safety Management Plan being carried out periodically.

**13. SAIL: Risk Assessment & Management**

i) **Number of mines covered:** 04, (Chasnalla Colliery, NoonudihJitpur Colliery, Tasra and Ramnagore colliery)

ii) Major activities completed

Under the guidance of DGMS, Safety Management Plan (SMP) has been prepared for Chasnalla , NoonudihJitpur, Tasra and Ramnagore collieries of SAIL.

SMP for underground mines covers: 1. Strata Control Management, 2. Fire/ Spontaneous Heating Management, 3. Danger of in-rush of water, 4. UG Transport, 5. Gas Monitoring, 6. Drilling and Blasting Operation, 7. Fall of persons from height/ chimney, 8. Risk associated with use of electricity.

SMP for opencast mines Covers: 1. Traffic Management, 2. Slope Stability of Bench and OB dumps, 3. Risks associated with use of electricity, 4. Lighting arrangement, 6. Safety of contractor’s worker. Risk Assessment is done of all operations of mine including surface and underground installations of electrical and mechanical appliances.

iii) Action Taken:

Based on the Risk Assessment of all activities for safe production of coal in mine, risk has been categorized as high, medium and low. SOP has been framed for elimination of most of the risks in jobs and control measures have been framed for the risk which can’t be eliminated. All risk assessment along with risk control has been mentioned in Safety Management Plan prepared by SAIL Collieries Division which is revised periodically and all jobs are being executed as per Safety Management Plan.

**14. NTPC:**

**PAKRI BARWADIH, DULANGA & TALAIPALLI COAL MINING PROJECT:**

1.	No. Of Mines Covered	03		
		PBCMP	DLCMP	TLCMP
2.	Major Activities Completed	Risk Assessment completed as per guidelines for formulation of SMP.	Risk Assessment completed as per guidelines for formulation of SMP.	Risk Assessment completed as per guidelines for formulation of SMP.
2 (i)	Identification of Principal Hazards	06 no.	11 no.	08 no.
3.	Action Taken			
3 (i)	Status Of Workplans for principal hazard mitigation as per DGMS Tech Cir 03 (Nov’2019)	12 no. workplans have been finalised out of which 11 no. of workplans have been completed	40 no. have been finalised and completed	94 Work plans have been finalised and 91 have been completed and 3 are under

		as on 30.09.20.  Balance 1 no. (Procurement of speed gun) under progress.		implementation in Phased manner
3 (ii)	Submission of quarterly return to DGMS on implementation of SMP	Submitted for quarter ending 30.09.20	Submitted for quarter ending 30.09.20	Submitted for quarter ending 30.09.20

## Agenda Item No.-VII

### Requirement of statutory manpower and steps taken to fill up shortages

#### 1. CIL:

Figures as on 01.12.2020

Comp.	Overman			Mining Sirdar			Electrical Supervisor			Surveyor		
	On Roll	Reqd	Short/Surpl.	On Roll	Reqd	Short/Surpl.	On Roll	Reqd	Short/Surpl.	On Roll	Reqd	Short/Surpl.
<b>ECL</b>	879	1005	-126	1144	1303	-159	280	376	-96	190	194	-4
<b>BCCL</b>	671	755	-84	468	595	-127	690	743	-53	105	113	-8
<b>CCL</b>	579	754	-175	770	890	-120	454	575	-121	194	170	24
<b>WCL</b>	795	922	-127	1188	1298	-110	632	650	-18	126	162	-36
<b>NCL</b>	481	546	-65	138	201	-63	227	227	0	55	71	-16
<b>SECL</b>	1075	1094	-19	1387	1494	-107	803	904	-101	180	172	8
<b>MCL</b>	525	663	-138	210	464	-254	410	611	-201	84	115	-31
<b>NEC</b>	16	15	(+)1	40	20	(+)20	8	9	(-)01	4	4	0
<b>CIL</b>	5021	5754	-733	5345	6265	-920	3504	4095	-591	938	1001	-63

Note- The sanctioned strength is as per Manpower Budget 20-21

#### Company-wise steps taken to fill up shortages

##### ECL:

- The process of en-cadrement is underway to fill the shortage of Mining Sirdar and Overman as per **Manpower Budget 20-21**. The shortage of Electrical supervisor will be filled through internal selection process.

##### BCCL:

- Action for filling up of vacancies as per **Manpower Budget 20-21** has been undertaken.

##### CCL:

- Action for filling up of vacancies as per **Manpower Budget 19-20** has been undertaken. Vacancies for the post of Mining Sirdar, DPC has been constituted. Regarding filling of the post of Overman, Outside recruitment for 75 Jr. Overman has been advertised and examination is scheduled in the month of January 2021.

##### NCL:

- Recruitment process has commenced for 88 posts of Mining Sirdar and 7 posts of Surveyor based on budget **Manpower Budget 19-20**. The appointment letters are likely to be issued by January 2021.

##### WCL:

- Action for filling up of vacancies as per **Manpower Budget 20-21** has been undertaken. Departmental Selection of Mining Sirdar against combined shortage of Overman/Mining Sirdar and shortage of Surveyor has been undertaken which is likely to be completed by February 2021. After departmental selection is completed, action will be taken for direct recruitment for the post of Mining Sirdar and Overman. Regarding filling up of post of Electrical Supervisor, action has been initiated as per the new cadre scheme.

**SECL:**

- As per vacancies indicated in **Manpower Budget 19-20**, notification for backlog vacancies ie. 62 in respect of Mining Sirdar and 14 in respect of surveyor has been issued. However, the process could not be completed due to COVID-19 situation. Departmental selection for the post of electrical supervisor has been initiated.

**MCL:**

- On the basis of vacancies in **Manpower Budget 2019-20**, advertisement for Open/Direct Recruitment for filling up 149 posts of Jr.Overman T&S Gr.C, 201 posts of Mining Sirdar T&S Gr.C and 20 posts of Dy.Surveyor was issued.

Accordingly, 20 candidates have joined in the post of Dy. Surveyor. 80 candidates have joined in the Overman cadre. In Mining Sirdar cadre, 382 candidates were called batch wise for physical document verification. The certificates have been sent to DGMS Office for verification. On receipt of verification, the offer of appointment will be issued for 201 candidates.

**2. SCCL:****MINING EXECUTIVES:**

Category	Requirement (2020-21)	MOR as on 30.11.2020	Variance (+/-)
Mining Executive (I & II)	964	865	-99

Recruitment of 83 Mining Executives through internal and external is under process. Notification will be issued.

**MINING SUPERVISORY STAFF:**

Category	Requirement (2020-21)	MOR as on 30.11.2020	Variance (+/-)
Overman	988	794	-194
Mining Sirdar	438	759	321
Shot firer	822	683	-139
Total	2248	2236	-12

\* 415 Mining diploma holders acquired Overman certificate are being utilised as Shot firer/ Mining Sirdar to get experience before deployment them as Overman. They will be given authorization to work as Overman against the vacancy. 102 mining diploma holders working as JMET (MS/SF) are yet to acquire Overman competency certificate.

- The requirement will be fulfilled through available internal source with Sirdar & Overman certificate holders.

#### **SURVEYOR:**

<b>Category</b>	<b>Requirement (2020-21)</b>	<b>MOR as on 30.11.20</b>	<b>Variance (+/-)</b>
Surveyor	199	219	20

\* Including 10 Surveyor Trainees (External).

#### **E&M Supervisors:**

<b>Category</b>	<b>Requirement (2020-21)</b>	<b>MOR as on 30.11.20</b>	<b>Variance (+/-)</b>
Ele. Supervisors	356	358	02
Mech. Supervisor	374	338	-36@

#### **MECHANICAL SUPERVISORS:**

- @ Recruitment of 56 AFM (Mech.) diploma holders from Internal was under process.

#### **3.NLCIL:**

There is shortage of Overman and Mining Sirdar certificate holder for which action for recruitment is under process.

#### **4. Moher & Moher Amlohri Extension OCP:**

Total requirement of statutory manpower is 86. Recruitment process to meet the requirement, is on-going & regular process at our mine

#### **5. Gare Palma IV/4 Coal Mines:**

<b>Designation</b>	<b>Requirement</b>	<b>Available</b>	<b>Shortage</b>	<b>Remark</b>
1 <sup>st</sup> Class Manager	05	06	+01	Including VTO
2 <sup>nd</sup> Class Manager	10	12	+02	
Overman	14	16	+02	
Mining Sirdar	20	24	+04	

#### **6. Chotia Mine-II:**

Statutory manpower available as per statutory requirements.

#### **7. Gare Palma IV/8 Coal Mines: Shortage of following statutory manpower:-**

Assistant Manger -7

Overman - 2

Mining sirdar- 2

\*Recruitment to fill the vacant positions is under process

### 8. OCPL: Requirement of statutory manpower and steps taken to fill up the Shortage-

Availability of statutory personnel are being ensured. Some of the appointments are going on.

### 9. Gare Palma Sector -III Coal Mine:

Requirement of statutory manpower and steps taken to fill up the shortage-

S-No.	Designation	Requirement	Appointed	Shortage
1	Mine Manager		1	0
2	Colliery Engineer (Mechanical)		2	0
3	Colliery Engineer (Electrical)		1	0
4	Office Assistance G-II		1	1
5	Office Assistance G-III		1	3
6	Safety Officer		1	0
7	Asst. Manager		1	18(6)
8	Mine Surveyor		1	2
9	Overman		15	34
10	Electrical Supervisor		1	0
11	Mechanical Foreman		1	0
12	Mining Sirdar		10	31

### 10. WBPDCCL:

In WBPDCCL mines statutory manpower as assessed by DGMS is being deployed to look after the safety of the mine and the person working therein.

### 11. GIPCL:

Mine name	Assistant Manager		Overman		Mining Sirdar		Surveyor		Electrical Supervisor	
	Required	Provided	Required	Provided	Required	Provided	Required	Provided	Required	Provided



Valia Lignite Mine:	24	09	21	16	15	05	6	2	4	4
Vastan Lignite Mine:	13	=9+ 1*	14	7	6	4	3	3	3	3

Note : \* - Mining Engineer -- underground training for (One Year) is require for obtaining 2nd class

**Steps taken to fill up the Shortage:** To fill up the statutory manpower, interview was been scheduled on 19<sup>th</sup> August 2020.

**Exemption of Asst. Manager:** for appointment of Asst. Manager as per CMR 2017, application has already been submitted to DGMS for exemption.

## 12. NTPC:

Steps taken to fill up shortage are as follows:-

- (i) Advertisement for Recruitment to 70 vacant positions of Diploma Trainee Mining, Electrical and Mechanical has been done.
- (ii) 04 nos. of Mine Surveyor offers issued out of which 3 Mine Surveyors have joined in Dec'2020. Advertisement has been done to recruit 16 more Mine Surveyors.
- (iii) Advertisement for recruitment of 2 Planning Engineers and Excavation Engineer, has been done.
- (iv) Diploma holders (Mining) – 34 numbers have been recruited and have applied/in process of applying for Overman's certificate of Competency after obtaining requisite experience.

## 13. Sunflag Iron & Steel Co. Ltd.:

Sufficient numbers of statutory manpower provided.

## 14. SAIL:

### Requirement of Statutory Manpower and steps taken to fill up the shortage

Efforts were made during 2017-18 and 2018-19 to fill up the shortage of Assistant Manager, Overman, Mining Sirdar and Electrical Supervisor. However the response was poor, as successful candidates either did not join, or moved to other organizations after joining. The latest process of recruitment initiated in 2019-20 has been kept on hold due to the COVID-19 pandemic.

The status of statutory manpower in SAIL collieries is given in the following table:

Name of mine	Assistant Manager			Overman			Mining Sirdar			Surveyor			Electrical Supervisor		
	Req	Provided	Shortage	Req	Provided	Shortage	Req	Provided	Shortage	Req	Provided	Shortage	Req	Provided	Shortage
Chasnalla	20	20	Nil	40	36	04	55	26	29	03	03	Nil	20	06	14
NoonudihJitpur	09	06	03	25	22	03	26	12	14	02	01	01	05	03	02
Ramnagore	11	05	06	13	13	Nil	31	07	24	02	02	Nil	03	00	03
Tasra	02	02	Nil	01	01	Nil	01	01	Nil	01	01	Nil	01	00	01

**Agenda Item No. VIII**

**Safety Budget and its utilization**

**1. CIL:**

**Company-wise total Funds allocated & Utilized for Safety in last 3 yrs and current year**

**(All figures in Crore rupees)**

Company	Year 2017-18		Year 2018-19		Year 2019-20		Year 2020-21 (upto 30.11.20)	
	Funds allocated	Utilized	Funds allocated	Utilized	Funds allocated	Utilized	Funds allocated	Utilized
ECL	226	171	202	139	171	165	116	55
BCCL	219	180	194	92	155	104	144	83.57
CCL	27	21	18	9	23	22	19	1.71
NCL	98	96	113	71	112	75	84	41.1
WCL	90	91	84	59	89	87	89	40.9
SECL	197	177	181	176	245	217	294	67.8
MCL	67	64	68	53	78	53	46	28.98
Total	924	800	860	599	873	723	792	319.06

**2. SCCL:**

**Safety budget and its utilization for the years 2017-18, 2018-19, 2019-20 and 2020-21 (up to Nov., 2020).(In Rs. Lakhs)**

Year	Capital		Revenue	
	Budget	Actual Expenditure	Budget	Actual Expenditure
2017-18	1365	1133	79670	81870
2018-19	961	1034	96043	104863
2019-20	700	633	--	80763
2020-21 (up to Nov.)	1000	642**	--	46661

\*Budget estimates for the year 2020-21.

\*\* including payments to be made towards supplies made.

### 3. NLCIL:Safety Budget and its utilization (Rupees in Lakhs)

#### FY19-20

Safety budget allocated=Rs1007.29 Lakhs

Safety expenditure=Rs1349.41Lakhs

### 4. Moher & Moher Amlohri Extension OCP:

Safety budget utilised during the FY 2019-20.

Sr. No	Description	Amount (Lacs)
01	Cutting and cleaning of Garland drain	41.50
02	Laying of Gabion wall	87.40
03	Procurement of Delivery Hose 15 Meters length, Dry Chemical Powder Map -90%, Hydrant Landing Valve and accessories, Different Types Advance Branch and Mini Foam Generator, Combo Tool , Fire man Axe, Hose Reel Hose, Water Cum Foam Monitor and Different types Fire Extinguishers Spares	12.40
04	Annual Refilling of DCP & CO2 along with Gas Cartridge and BA set Cylinder.	04.50
05	Procurement of PPE's and other Safety equipment	90.00
	Procurement of Phase 2D software	05.00
06	Procurement of Prism and pillar for Dump slope monitoring	10.00
07	Sentry Office Software license (0120210). Geotechnical deformation monitoring software	12.50
08	Rock Slope study for Pit and dump slope, by IITBHU	12.50
09	Procurement of CAMERA, CCTV, PTZ	115.00
	Total	390.80

### 5. Gare Palma IV/4 Coal Mines:

Safety budget-Rs.66,82,187.

Utilisation of safety budget:100%.

- Procurement of Safety equipment and other safety material
- Safety Training and Virtual reality training module

- Scientific investigation/assessment from third party:
  - Depillaring study/stowing study
  - Subsidence Study
  - Degree of gassiness
  - Incubation period
  - Vibration test
  - Hydro-geological stud
  - Quantitative Exposure assessment
  - Sparrow Mines safety audit
  - ISO training
  - BBS training
  - Firefighting training
- Sectionalisation working/Stoppings
- Strata control and monitoring equipment
- Publicity and propaganda
- Annual Mine Safety fortnight organisation
- Health and Hygiene
- Swakchhata Abhiyan

**6. Chotia Mine-II: Safety Budget and its utilization.**

Safety Budget: 80 Lakhs

Utilization: 75 Lakhs

**7. Gare Palma IV/8 Coal Mines:**Coal dust; occupational health hazard due to respirable coal dust is Pneumoconiosis which is being mitigated by taking all the precautions as per CMR 2017.

**8. OCPL:**

Year	SAFETY BUDGET in Rs.	UTILIZATION in Rs.
2018-19	2,23,20,000.00	4,16,632.00
2019-20	1,56,40,000.00	1,34,31,000.00 *
2020-21	1,58,20,000.00	Approx. 73,70,000.00 (April 2020 to November 2020)**

\*Approx.Rs.1,27,70,000.00 in FY 2019-20 spent by MO.

\*\*Approx.Rs.70,00,000.00 in FY 2020-21 spent by MO.

**9. WBPDCCL:** Proper Safety Budget @ rate of Rs. 15 Lakhs per mine is provided and its utilisation is monitored.

**10. GIPCL: Safety Budget & its Utilization:**

<b>Safety Budget up to June 2020 (All figure are in Lakh Rs.)</b>			
<b>Mine</b>	<b>Budget</b>		
	<b>F Y</b>	<b>Budget</b>	<b>Actual Expenditures</b>
Vastan Lignite Mine:	2019-20	227.46	198.14
	2020-21 up to June 20	246	125.74
Valia Lignite Mine	2019-20	414.54	373.38
	2020-21 up to June 20	529.80	149.02

**11. Sunflag Iron & Steel Co. Ltd.:**

Safety Budget is being utilized fully in last FY' 19-20.

**12. SAIL:**

There is no budgetary restriction on expenditure for safety.

**13. NTPC:**

<b>1.</b>	<b>No. Of Mines Covered</b>	<b>03</b>		
		PBCMP	DLCMP	TLCMP
<b>2.</b>	<b>Safety Budget (2019-20)</b>			
	NTPC (Utilised)	Rs 40,00,000	Rs 1,11,75,549	Rs. 36,00,000
	MDO (Utilised)	Rs 28,93,769	Rs 2,14,30,000	-
	<b>TOTAL</b>	<b>Rs 68,93,769</b>	<b>Rs 3,26,05,549</b>	<b>Rs. 36,00,000</b>

	Major Expenditure Heads	<ul style="list-style-type: none"> <li>i. Procurement of PPEs</li> <li>ii. Signage, safety reward &amp; recognition and Annual mines safety week celebrations</li> <li>iii. Safety Devices in equipments</li> <li>iv. Training expenditure</li> <li>v. Carrying out third party Safety Audits</li> <li>vi. Fire Extinguisher procurement and maintenance</li> <li>vii. Safety Awareness Drives</li> <li>viii. Conduct of Safety studies such as slope studies etc.</li> <li>ix. Implementation of IMS for ISO 14001&amp; ISO 9001</li> <li>x. Blasting Shelter, Vibrometer, Seismograph reader and other Blasting Safety Equipment's</li> <li>xi. Electrical safety related procurement</li> <li>xii. Fencing in mines, moving parts and electrical installation</li> <li>xiii. Pumps pipes and its fittings</li> </ul>
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**Occupational Health hazards and Health Risk**

**1. CIL:**

- CIL has well-established Occupational Health Services (OHS) for early detection of Occupational diseases and for conducting Initial Medical Examination (IME) & Periodical Medical Examination (PME) as per statutory requirement of its employees including contractor's workers.
- In CIL, there are 70 Hospitals with 4405 Beds, 360 Dispensaries, 523 Ambulances and 1160 Doctors including Specialists to provide medical services to the employees and their families.
- The health risk of mining is mitigated by ensuring safe work condition like dust control by water sprinkling, noise control by ergonomically designed cabins of dumper, shovel, drills and similar other measures.
- Apart from distribution of Mining shoes and helmets per the provisions of CMR, the workmen are also provided with dust masks, earmuff/plugs etc. Further Mitigation measures undertaken against Occupational Health hazard and Risk in subsidiaries:

**Air Pollution control measures:**

- The dust is controlled at source by installation of fixed sprinklers at CHPs, coal stock yards, weighbridges and along transportation roads. In major CHPs, fixed sprinklers have been provided at the transfer points and bunkers.
- Mobile water sprinkler are also deployed along the haul roads;
- Mist type sprinkling systems are deployed for air borne dust suppression along the coal transportation roads and haul roads.
- Plantation in the mine lease area has been done to arrest the propagation and dispersion of dust significantly.
- The drills are fitted with wet drilling and dust extractors in order to control generation of dust.
- The quality of ambient air in and around the mine is monitored every fortnight as per Environment (Protection) Amendment to ensure minimum adverse health risk to mine employees and settlement in the vicinity.
- Roads are black-topped, coal carrying trucks are optimally loaded and covered with tarpaulin. Further, road side plantation is also carried out. Some mechanically sweeping machines are deployed for cleaning the coal transportation road.

**Water pollution Control measures:**

- The Effluent from the mines is treated in settling tank before discharging in natural course.
- Oil & grease traps are installed and operated in workshop to separate & collect oil & grease from workshop effluent.
- Effluent treatment plants (ETP) are installed and operated efficiently for treatment of workshop effluent & CHP effluent.



- Sewage treatment plant (STP) is installed and operated for treatment of large domestic sewage.
- The quality of the final effluent is monitored in terms of the relevant Indian standards, before it is discharged to natural drainage or in open land to minimise health risks to employees and the surrounding.

**Noise pollution Control measures:** Noise pollution is created due to operation of HEMM deployed and Workshops, CHPs and due to blasting operations. This is reduced by-

- Proper maintenance of equipment to minimize vibration;
- Green belt provided around the mine as well as residential area;
- Stress on use blasting free technology of Surface Miner in OC mines and, Continuous Miner in UG mines.
- Ear Muff or Ear Plugs provided to Workers at highly noisy areas to prevent ailment relating to hearing impairment.

## 2. NLCIL:

### **Occupational health hazards and health risk.**

- 1.NLCIL conducts Periodic Medical Examination of employees once in 3 years for all age group employees including contract workmen.
- 2.NLCIL achieves **Zero incidence of Coal Workers Pneumoconiosis** through strict surveillance of occupational health and well being of workmen once in 3 years as per DGMS guidelines and by adhering with ILO standards for chest X-ray.

### 3. Moher & Moher Amlohri Extension OCP: Medical Infrastructure & Personnel

<b>Manpower</b>	
<b>Doctor In Charge</b>	Dr. Shah Dawar Jehad MBBS
<b>Paramedical Staff</b>	Awadh Lal Mishra
	Sushil Kumar Vishwakarma
	Pushpendra Prakash Shah
	Pushparaj Kumar Shah
	Rakesh Kumar
	Jay Prakash Srivastav
	Archana Soni
	Ramesh kumar Kushwaha
<b>Ambulance Driver</b>	Radhika Prasad dubey
	Amrit Lal
	Rajendra Saket

<b>Available Facility</b>	
<b>Regular Activity</b>	<b>Other Services Available</b>
Daily OPD	ECG
General health Check Up	Spirometry / Lung Function Test
Annual Employee Health Check Up	Audiometry
Emergency Services	Routine Pathology
Ambulance Services	Vision Check Up
CSR camps	First aid training
Thermal Screening at entry level	Health Awareness program
Disposal of biomedical waste	First Aid Box refilling
Canteen food & hygiene check up	Medicine Distribution
Oxygen Saturation check up	Referral services to higher centre

#### 4. **Gare Palma IV/4 Coal Mines:**

Periodical Health Check-up, Dust monitoring, Illumination survey is being done on regular basis.

#### 5. **OCPL:**

The occupational health hazards and associated health risks have been identified in SMP. The mitigation measures as suggested in SMP are being taken up,

#### 6. **WBDCL:**

Occupational Health Hazards and Health Risk are associated mainly with the following:

- i) Air born repairable dust in the mine and transport road ways
- ii) Noise Level at HEMM, Compressor etc
- iii) Illumination at Mine

This are maintain as per statutory requirement and kept below TLV. Proper monitoring and mitigative action are taken.PME and IME are being done for all the employee of the Mine.

7. **GIPCL: Valia and Vastan Lignite Mine:** Major occupational health hazard identified are :-

- a) Dust- Dust is generated by plying of dumpers on haul road, un-loading of lignite at the feeder breaker and loading of Over Burden and lignite into dumpers.  
Action taken- Water tankers equipped with pressurized water spraying system are provided for suppression of dust generated.
- b) Noise- HEMM has air-conditioned cabins and well maintained.

Noise and dust survey is carried out regularly. There is no any notified disease detected in GIPCL's mines till date.

8. **Sunflag Iron & Steel Co. Ltd. : NIL**

9. **SAIL:Occupational Health Hazard and Health Risk**

No case of occupational Health Hazard has been identified till date as per record.

Initial Medical Examination (IME) is being done for every newly inducted contractual and departmental employee. Periodic Medical Examination (PME) of all contractual and departmental employees is being done at an interval of 5 years for employees below 45 years of age, in a manner of 1/5<sup>th</sup> strength annually; for employees above 45 years, PME is done at an interval of 3 years in a manner of 1/3<sup>rd</sup> strength annually.

Personal Protective Equipment (PPE) is provided free of cost to all departmental and contractual manpower to protect from health risk.

SAIL Collieries Division has recorded Zero incidence of **Coal Workers Pneumoconiosis** till date.

10. **NTPC:**

Occupational health hazards and associated risks have been included in the risk assessment during formulation of SMPs and control plan have been framed.

- (i) **Physiological effects of Dust :-** Dust suppression initiatives like fog cannon, fixed water sprinkling system and compulsory wet drilling have been taken. Regular Dust sampling is carried out to check the health hazards due to air borne dust generation.
- (ii) **Physiological effects of Noise :-** Noise monitoring and noise mapping is being done as per the DGMS guidelines to ensure noise levels within permissible limits.
- (iii) **Physiological effects of vibrations inside HEMM :-** All the HEMM cabins are ergonomically designed and regular check-ups are done.