

**Ministry of Environment, Forest and Climate Change  
Impact Assessment Division  
(Coal Mining Sector)**

**Date of zero draft MoM sent to Chairman: 24/06/2025**

**Approval by Chairman: 27/06/2025**

**Uploading on PARIVESH: 27/06/2025**

**SUMMARY RECORD OF THE TWENTY SEVENTH (27<sup>TH</sup>) MEETING OF EXPERT APPRAISAL COMMITTEE (EAC) HELD ON 18-19<sup>TH</sup> JUNE 2025 FOR ENVIRONMENT APPRAISAL OF COAL MINING SECTOR PROJECTS THROUGH PHYSICAL MODE.**

**18<sup>TH</sup> JUNE 2025 [MONDAY]**

At the outset, Shri. Inder Pal Singh Matharu (I.F.S Retd.) welcomed the Expert members & other participants and requested to start the proceeding as per the agenda listed for this meeting. The list of members who participated in the meeting is at **Annexure – III**.

Confirmation of the minutes of the 26<sup>th</sup> meeting of the EAC (Coal): The minutes of the 26<sup>th</sup> meeting of the EAC (Coal) held on 26<sup>th</sup> May 2025 through physical mode have been confirmed by the EAC.

**Agenda Item No. 27.1:**

**27.1:** Pelma Opencast Coal Mine (ML area: 2077.934 Ha having production capacity of 15 MTPA) by **M/s South Eastern Coalfields Limited** located at village: Pelma, Urba, Maduadumar, Lalpur, Hinjhar, Jarhidih, Sakta, Milupara & Kharra; Tehsil: Tamnar; **District: Raigarh; State: Chhattisgarh – Prescribing of Terms of Reference – reg.**

**[Online Proposal No. IA/CG/CMIN/534823/2025; Consultant: CMPDIL - NABET/EIA/22-25/SA 0223 valid up to 07.07.2025]**

**27.1.1:** M/s South Eastern Coalfields Limited (SECL) has made an application online vide proposal no IA/CG/CMIN/534823/2025 dated 05.05.2025 along with the application in prescribed format (Form-I), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at Item No. 1(a) Mining of minerals Under Category “A” of the schedule of the EIA Notification, 2006 and project do not attract general condition of EIA Notification, 2006. Hence, the project is being considered at Central Level.

Pelma Opencast Coal Mine is proposed for 15 MTPA production capacity in the area of 2077.934 Ha, is located in Villages Pelma, Urba, Maduadumar, Lalpur, Hinjhar, Jarhidih, Sakta, Milupara & Kharra, Tehsil – Tamnar, District- Raigarh, State – Chhattisgarh.

**Details of the proposal, as ascertained from the proposal documents and as revealed from the discussion held during the meeting, are given as under:**

### 27.1.2: Environmental Site Settings:

The project area is covered under Survey of India Topo sheet no F44L 7, F44L 8, F44L 11 & F44L 12 and is bounded by the geographical coordinates ranging from 22°10'51" N to 22°14'06" N and Longitude 83°29'29" E to 83°33'25" E.

Project does not fall in the Critically Polluted Area (CPA)/Severally Polluted Area (SPA), as per CEPI Assessment, 2018.

**Forest Area:** The project involves total 362.109 Ha of forestland. Application for forest land diversion for 362.109 Ha has been made vide application no. FP/CG/MIN/QRY/534576/2025 dated 22.04.2025. There is no broken forestland and the project does not involve the violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

**Protected Area:** The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve/tiger corridor/elephant corridor etc. However, a Site Specific Wildlife Conservation Plan will be prepared for conservation of Schedule-I species.

**Mining Lease:** PP submitted the following details of the mining lease:

S. No.	Govt. Order/Notifications as the case may be	Area (ha)
1.	Notification under CBA Act 1957 for 2035.935 Ha under all rights for Pelma Open Cast project vide gazette notification S.O.3052, dated: 10 <sup>th</sup> Dec. 2010	2035.935
2	Notification under CBA Act 1957 for 42.0 Ha under all rights for Pelma Open Cast project vide gazette notification S.O. 2010(E), dated: 17 <sup>th</sup> May 2024.	42
	<b>Total</b>	<b>2077.934</b>

### Other Sensitive Receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	Village	Distance (Km)	Direction
i. Habitation	Pelma	Within Lease Area	
	Urba		
	Maduadumar		
	Lalpur		
	Hinjhar		
	Jarhidih		
	Sakta		
	Milupura		
	Kharra		
	Semijor	1.5	ESE
	Tilanpali	1.5	NW
	Naya Rampur	1.6	NW
	Banjikhol	2.9	SE
	Rampur	3.2	SSW
	Khamharia	3.2	SSW
	Bichhinara	3.3	NW
	Komdkel	3.5	S
	Karuwahi	3.7	SW
	Bajarmura	3.8	SW
	Raikera	3.9	W
	Tolge	4.2	NE

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	Chhinvani	4.3	SE
	Ajijgarh	4.5	NW
	Lamdarha	4.5	S
	Chingari	4.7	NNW
ii. School	<b>Schools</b>	<b>Distance</b>	<b>Direction</b>
	Primary School Lalpur Sadak	Within ML	
	A.G.B.V.M. Milupara		
	Government School Pelma		
	Govt Higher Secondary School Milupara		
	Government Primary School, Nawadih, Nayarmampur	0.5	WNW
	Ganjnor High School	0.9	NE
	Bundeli Tola, Magurda	2.0	SSW
	Swami Atmanand Hindi Medium School Raikera	2.1	WSW
	Primary School Madiyakachar	2.6	E
	Govt. Higher Secondary School, Ganjpur	2.8	NNW
	Aganbadi Mini Kendra Deepapara	3.1	NE
	M. S. Bardih	3.2	NE
	Primary School Bardih	3.3	NNE
	Primary School Koilardih	3.5	NE
	Primary School Potebirni	3.9	NE
	Government School Bajarmuda	3.9	SW
	Prathmik Shala Raikera	4.3	WNW
	Primary School Karranala	4.9	NE
	Government School, Chingaari	5.0	NNW
iii. River/ Waterbody	<b>Water body</b>	<b>Distance (Km)</b>	<b>Direction</b>
	Chini Nala	Passing through the Within Lease Area	
	Kelo Nadi		
	Dumer Nala	1.3	S
	Bendra Nala	3.7	S
	Tedipara Nala	4.5	W
iv. Forest	<b>Reserved/Protected forests</b>	<b>Distance (In km)</b>	<b>Direction</b>
	Deodongri RF	Within Lease Area	
	Tolge West RF		
	Hinjhar PF		
	Rampur PF		
	Tolge East RF	Adjoining Project Site	S
	Silot RF		W
	Khamharia PF	1.2	S
	Piprahi PF	2.8	NE
	Gare PF	4.3	SW
	Ankra PF	4.8	NE
v. Archaeological Survey of India (ASI) protected site	No		
vi. Any other	No		

**Following diversions are proposed for the said project:**

1. Diversion of Raigarh-Tamnar-Lelunga Road.
2. Diversion of HT Lines of 765kV Grade of approx. 12km of PGCIL.

3. Diversion of Chinni Nallah.

**Mitigation measures proposed:** The adequate mitigation measures will be taken during diversion of road, nallah and HT line. The details of measures proposed during diversion shall be submitted along with the EIA/EMP report.

**27.1.3: Mining Plan and Mine Closure Plan:** Mining plan was approved vide Ref. No. SECL/BSP/CAD/356th BM EXT/25-26/87 dated 16.04.2025 by SECL Board, for the production capacity of 15 MTPA within the ML area of 2077.934 Ha.

1. Method of Mining to be adopted shall be opencast. Excavation of Coal is through shovel dumper combination for OB removal and surface miner for coal extraction is being proposed.
2. There is no coal washery proposed in the project.
3. Net geological reserve reported in the mine lease area is 443.06 MT with 219.14 MT mineable reserves. Out of total mineable reserve of 219.14 MT, 219.14 MT are available for extraction. The percentage of extraction is 100 %.
4. There are total 19 seams with thickness ranging from 0.16 m to 9.81 m are workable. Grade of coal is G 12 (3748 K.Cal./Kg), stripping ratio 3.52 cum/t.
5. Life of mine is 20 years (including 1 year of construction period).
6. **Topsoil Management:** As the proposed working of Pelma OCP (15.0 MTPA) is a greenfield area, 2.45 M.Cum of top soil will be generated. This top soil will be stored at the place as shown in the Land use Plan and will be utilized for reclamation of external & internal dump & greenbelt development and other land for vegetation.
7. **Waste/OB Management:** About total 772.37 Mcum of OB will be removed and would be dumped in external dumping (upto 120 m from surface level) as well as internal dumping upto to height of 90m from surface level.

8. Details of land-use pattern:

**a. Pre-mining land use:**

S. No.	Land Use	Within ML Area (ha)	Outside ML Area (ha)	Total
1.	Agricultural Land	1335.818	Nil	1335.818
2.	Forest land	362.109	Nil	362.109
3.	Barren Land	0	Nil	0
4.	Waste Land	71.737	Nil	71.737
5.	Grazing Land	267.90	Nil	267.90
6.	Surface Water Bodies	40.37	Nil	40.37
7.	Settlements	0	Nil	0
8.	Other	0	Nil	0
<b>Total</b>		<b>2077.934</b>	<b>Nil</b>	<b>2077.934</b>

**b. Post-Mining**

S. No.	Type	Total Area (Ha)	Reclaimed Area (Ha)		Un-reclaimed (Ha)
			Plantation	Water Body	
1	Excavation/Quarry Area:	861.59	-	-	-

	(a) Backfilled areas	549.12	549.12	0	0
	(b) Excavated Void	312.47	0	312.47	0
2	External Dump	566.65	566.65	0	0
3	Safety Zone	176.1	176.1	0	0
4	Road, infrastructure & others	456.21	456.21	0	0
5	Water body (Undisturbed area) & Proposed diversion Nallah	17.39	0	17.39	0
	<b>TOTAL</b>	<b>2077.94</b>	<b>1748.08</b>	<b>329.86</b>	<b>0</b>

9. Details of transportations:

- i. In-pit to surface: By belt- conveyor of approx. 1.5 km
- ii. Surface to siding: By belt conveyor/ tippers of approx. 5 km
- iii. Siding to loading: Through Silo loading system

10. Details of reclamation: Afforestation shall be done progressively covering an area of 1765.47 ha at the end of mining. This will include:

- i. Reclaimed external OB dump of 566.65 Ha
- ii. Backfilled internal dumps of 549.12 Ha
- iii. Greenbelt in 176.1 Ha
- iv. 456.21 Ha of infrastructure and other area (such as excavation area along ML boundary, along roads and infrastructure, embankment area)

Density of plantation shall be 2500 trees/ Ha and a void of 312.47 Ha will be converted into water body of 60 m depth.

**27.1.4: Baseline Data:** Baseline monitoring has been conducted from March –May 2024 (summer season)

Period	March 2024 – May 2024 (summer season)	Additional Study (If any)
AAQ parameters at 12 Locations (min and max)	<p><b>Core Zone</b>  PM<sub>10</sub> = 56.5 to 66 µg/m<sup>3</sup>  PM<sub>2.5</sub> = 23.3 to 30 µg/m<sup>3</sup>  SO<sub>2</sub> = 14.9 to 19.4/m<sup>3</sup>  NO<sub>x</sub> = 20.7 to 26.8 µg/m<sup>3</sup>  CO = 0.36 to 0.49 mg/m<sup>3</sup></p> <p><b>Buffer Zone</b>  PM<sub>10</sub> = 53.4 to 81.5 µg/m<sup>3</sup>  PM<sub>2.5</sub> = 21.1 to 41.1 µg/m<sup>3</sup>  SO<sub>2</sub> = 13.4 to 26.7µg/m<sup>3</sup>  NO<sub>x</sub> = 19.1 to 33.9 µg/m<sup>3</sup>  CO = 0.23 to 0.83 mg/m<sup>3</sup></p>	
Ground water quality at 10 Locations	pH: 7.36 to 7.98, Total Dissolved solids: 388 to 477 mg/l; Hardness: 262 to 392 mg/l; Chlorides: 49.99 to 84.81 mg/l, Fluoride: 0.31 to 0.48 mg/l. Heavy metals Fe: 0.3 to 0.58 mg/l, Zinc as Zn: 0.41 to 0.8 mg/l, Copper as Cu: <0.002mg/l, Cyanide as CN: <0.002mg/l, Aluminium as Al: <0.005mg/l, Boron: <0.01 mg/l, Chromium as Cr: <0.002mg/l, Phenolic Compound: <0.0005mg/l, Manganese as Mn: <0.01 mg/l, Cadmium as Cd: <0.002 mg/l, Lead as Pb: <0.002 mg/l, Selenium as Se: <0.001 mg/l, Arsenic as As: <0.005 mg/l, Mercury as Hg:	

Period	March 2024 – May 2024 (summer season)	Additional Study (If any)
	<0.0005mg/l, Total Coliform: <1.8 MPN/100ml. other heavy metals	
Surface water quality at 10 Locations	pH: 7.4 to 7.95; Hardness: 381 to 475 mg/l; DO: 5.3 to 6.5 mg/l and BOD: 12 to 20 mg/l. COD from 30 to 60 mg/l, Fe:1.21 to 1.99 mg/l, Aluminium as Al: BLQ(LOQ-0.005)mg/l, Boron: 0.43 to 0.68 mg/l, Chromium as Cr: <0.002mg/l, Phenolic Compound:<0.0005mg/l, Zinc as Zn: 1.22 to 1.98mg/l, Copper as Cu:0.52 to 0.88 mg/l, Manganese as Mn: <0.01 mg/l, Cadmium as Cd: <0.002 mg/l, Total Coliform: 700 to 1200 MPN/100ml., E. Coli: 400 to 840 MPN/100ml	
Noise levels Leq (Day and Night)	Core Zone (Industrial Zone) 43.92 to 47.61 dB(A) for the day time and 34.62 to 35.71 dB(A) for the Night time. Buffer Zone (Residential Zone) 44.14 to 50.73 dB(A) for the day time and 35.09 to 41.86 dB(A) for the Night time.	
Flora and fauna	Presence of Schedule I fauna and endangered and status of site specific wildlife conservation plans.	Site Specific Wildlife Conservation Plan will be prepared for Schedule-I species.
Water Requirement	<b>Source of Water:</b> Ground water and Mine Water <b>Ground Water Intersection:</b> Yes <b>Water Requirement:</b> 3275 KLD <b>NOC (For surface water):</b> Not Applicable <b>NOC (Ground Water):</b> Application for obtaining the approval of the Central Ground Water Authority for water withdrawal will be submitted after the approval of ToR.	

**27.1.5: Details of Water Requirement:** PP submitted that, the total water required for the said project is 3275 KLD which will be sourced from ground water and mine water. Application for obtaining the permission for the same will be submitted to CGWA after the grant of ToR.

PP further submitted that, there is diversion of Chinni Nallah is proposed for smooth mining operations. The length of diversion of nallah is 2 km.

**27.1.6: Details of Power Requirement and diversion of High-Tension/Transmission Line:** PP submitted the power requirement 15 MVA. As per requirement of power supply, 2 nos 33 KV Substation and 1 No 132KV Substation with outdoor structures have been provided.

Further PP submitted that, the HT Lines of 765kV Grade of approx. 12km of PGCIL is proposed to be shifted for smooth mining operations. Due permission/ approval for diversion of HT lines will be obtained from the competent authority.

**27.1.7: Details of Solid and Hazardous Waste Generation:**

Sl. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
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Sl. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1.	Municipal Solid waste	colony , canteen , office	332	Recycle and land fill	Disposed off as per the solid waste management rule, 2016
2.	Plastic Waste (plastic bottles , wrap, waste product of plastic)	colony , canteen , office	3.9	collection and recycle	As per the Plastic Waste Management Rules, 2016
3.	Electronic Waste	Computers, switches, cables etc.	3.77	collection and disposal through EPR	As per E- Waste (Management) Rules, 2022
4	Used Batteries	office , mine operation	6.0	collection and disposal through authorized vendor	As per Batteries Management rules 2022, sold to authorize vendors for recycling/ refurbishment.
5	Used Oils, Waste Oil, Empty Oil barrels	DG Set, Workshop	10	Will be sent to Authorized Recyclers	Handed over to CPCB/SPCB authorized vendor

**27.1.8: Plantation:** The plantation work will start from 5<sup>th</sup> year of production. The plantation will be done progressively. Plantation area will be 1748.08 Ha against total project area of 2077.94 ha.

**27.1.9: Rehabilitation & Resettlement Plan:** The project involves rehabilitation & resettlements as there will be displacement of families. This project involves R&R of 8 villages namely- Pelma, Urba, Maduadumar, Lalpur, Hinjhar, Jarhidih, Sakta & Milupara village. Actual no. of habitants requiring R&R will be finalized after detailed survey. However, as per the Census data of 2011, it has been roughly estimated that approximately 1361 project affected families and 887 project displaced families fall within the proposed project area, requiring R&R.

**27.1.10: Project Cost:** The project cost of the said project is Rs. 1725.04 Crores.

**27.1.11: Legal Issues/ Violation:** PP reported that there is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air (P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

**27.1.12: Written Submissions:** PP submitted the following information during the meeting:

S. No.	Observations	Response of PP					
1.	Rectified post – mining land use pattern	S. No.	Type	Total Area	Reclaimed Area		Un-reclaimed
					Plantation	Water Body	
		1	Excavation/Quarry Area:	861.59	-	-	-
			(a) Backfilled areas	549.12	549.12	0	0
			(b) Excavated Void	312.47	0	312.47	0
		2	External Dump	566.65	566.65	0	0

S. No.	Observations	Response of PP					
		3	Safety Zone	176.1	176.1	0	0
		4	Road, infrastructure & others	456.21	456.21	0	0
		5	Water body (Undisturbed area) & Proposed diversion Nallah	17.39	0	17.39	0
			<b>TOTAL</b>	<b>2077.94</b>	<b>1748.08</b>	<b>329.86</b>	<b>0</b>
2.	Details of Project affected families and project displaced families	Project Affected families: 1361(Approx.) Project Displaced Families: 887 (approx.) The above figures are tentative and it may change after final survey and the compensation for the PAF's will be paid on actual basis after survey of assests.					
3.	An Undertaking that the baseline data collection has been done by M/s Vardan Environet LLP.	PP submitted the same.					

### Deliberations and Observation of the Committee:

#### 27.1.13: The Committee noted the following:

1. The instant proposal is for grant of Terms of Reference to M/s South Eastern Coalfields Limited (SECL) for Pelma Opencast Coal Mine (ML area: 2077.934 Ha having production capacity of 15 MTPA) by M/s South Eastern Coalfields Limited, located at village: Pelma, Urba, Maduadumar, Lalpur, Hinjhar, Jarhidih, Sakta, Milupara & Kharra; Tehsil: Tamnar; District: Raigarh; State: Chhattisgarh. The instant project is a Greenfield project.
2. The EAC took into consideration the project site through kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH.
3. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018.
4. The project involves total 362.109 Ha of forest land and Application for forest land diversion for 362.109 Ha has been made vide application no. FP/CG/MIN/QRY/534576/2025 dated 22.04.2025. There is no broken forestland and the project does not involve the violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.
5. The project is not located within 10 KM of any ESZ/ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/ tiger corridor/ elephant corridor etc. There is presence of Schedule – I species within the study area and Wildlife Conservation Plan is yet to be prepared.
6. Committee observed that there are various schools within the ML area and in close vicinity of the ML area. Committee opined that relocation plan for the schools which are within the ML area shall be submitted and mitigation measures shall be submitted for the schools which are within the close vicinity of the ML area, along with the application for Environment Clearance.

7. The coal block for the said mine was obtained by the PP as per notification under CBA Act 1957 for 2035.935 Ha under all rights for Pelma Open Cast project vide gazette notification S.O.3052, dated 10.12.2010 and Notification under CBA Act 1957 for 42.0 Ha under all rights for Pelma Open Cast project vide gazette notification S.O. 2010(E), dated: 17.05.2024.
8. Mining plan was approved vide Ref. No. SECL/BSP/CAD/356th BM EXT/25-26/87 dated 16.04.2025 by SECL Board, for the production capacity of 15 MTPA within the ML area of 2077.934 Ha.
9. Method of Mining to be adopted shall be opencast. Excavation of Coal is through shovel dumper combination for OB removal and surface miner for coal extraction is being proposed.
10. Net geological reserve reported in the mine lease area is 443.06 MT with 219.14 MT mineable reserves. Out of total mineable reserve of 219.14 MT, 219.14 MT are available for extraction. The percentage of extraction is 100 %.
11. Life of mine is 20 years (including 1 year of construction period). Grade of coal is G-12 (3748 K.Cal./Kg), stripping ratio 3.52 cum/t.
12. Committee observed that, atleast 2.45 M.Cum of top soil will be generated as the proposed project is a Greenfield project. This top soil will be utilized for reclamation of external & internal dump & greenbelt development and other land for vegetation.
13. Committee observed that there is 1 external dump and 1 internal dump involved in the said project and height of each is proposed to be 120 m and 90 m respectively.
14. Committee deliberated on the land use pattern of the said project and observed that, the said mine lease area involves 267.90 Ha of grazing land. Committee opined that since the quantum of grazing land involved in the said project is more, the PP shall strictly adhere with the rules of State Government in this regard and provide alternate land for grazing to the villagers in consultation with the District Collector. Valid documents in this regard shall be submitted along with the application for EC.
15. Committee also opined that the post – mining land use pattern submitted by the PP has some discrepancies and the same shall be rectified. PP rectified the same and submitted.
16. The Committee deliberated on the baseline data submitted by the PP and observed that, the particulate matter 10, though within limits but is slightly higher in the buffer zone. Committee opined that the PP shall take adequate measures to control the air quality parameters. Committee further observed that the consultant appointed by the PP for the instant ToR proposal is M/s Central Mine Planning & Design Institute Limited. However, the baseline data has been collected by M/s Vardan Environet LLP. Committee sought the clarification on the same and observed that the environment consultant M/s Vardan Environet LLP appointed by MDO operator M/s PCL (Pelma Collieries Limited) has carried the environmental baseline studies and they will also prepare the EIA/EMP report and presentation to MoEF&CC at the time of consideration of proposal for grant of EC. PP also submitted an undertaking in this respect.
17. While deliberating the baseline data submitted by the PP. Committee observed that no monitoring has been done in the forestland of the said project. Committee opined

that, PP shall submit a letter from the State Forest Department for the impact on the forest area due to the mining activities of the instant project. The same shall be submitted along with the application for Environment Clearance.

18. Committee deliberated on the method of coal evacuation proposed for the said mines and observed that, from in-pit to surface the coal is will be transported by belt-conveyor, from surface to siding the coal is proposed to be transported by conveyor belt and tippers up to a distance of 5 km and further by rail to the final consumer. However, provision for supplying coal to the local consumers by road will be kept for minimal quantity of upto 10% of the total production.
19. Committee observed that there are multiple mines and power plants and certain other industries. All these mines and industries are using one single road for transportation of mineral. Committee opined that a comprehensive transportation impact assessment shall be carried out by the concerned State Pollution Control Board and comments of Ministry of Coal and Ministry of Power may be sought in this regard.
20. The total water required for the said project is 3275 KLD which will be sourced from ground water and mine water. Application for obtaining the permission for the same will be submitted to CGWA after the grant of ToR. Committee further observed during the deliberation that Chinni Nallah and Kelo river are passing through the ML area. Out of these two water bodies, Chinni Nallah is proposed for diversion. The length of diversion of nallah is 2 km. An integrated watershed management plan shall also be prepared and submitted for the same. Necessary permission from the State Irrigation Department shall be obtained for diverting the nala.
21. The power requirement 15 MVA. As per requirement of power supply, 2 nos 33 KV Substation and 1 No 132KV Substation with outdoor structures have been provided. Committee observed that the HT Lines of 765kV Grade of approx. 12 km of PGCIL is proposed to be shifted for smooth mining operations. Necessary permission for the same must be obtained from authorized electricity board.
22. Committee during the deliberation observed that the Raigarh-Tamnar-Lelunga road is passing through the eastern part of Pelma block is proposed for diversion. Committee opined that PP shall take the relevant permission from the competent authority.
23. Committee further deliberated on the plantation activities proposed for the said mines and observed that, the plantation work will start 5<sup>th</sup> year onwards. Afforestation will be done in 1748.08 Ha against total project area of 2077.94 Ha. Committee opined that the plantation shall be started from first year of operation itself and PP shall also submit a time – bound action plan for the plantation at the time of application for Environment Clearance.
24. The project involves rehabilitation & resettlements as there will be displacement of families. This project involves R&R of 8 villages namely- Pelma, Urba, Maduadumar, Lalpur, Hinhjar, Jarhidih, Sakta & Milupara village. Actual no. of habitants requiring R&R will be finalized after detailed survey. Committee opined that R&R plan for the said mine shall be prepared in consultation with the district collector and the same shall be submitted along with the application for EC.
25. The project cost of the said project is Rs. 1725.04 Crores.
26. There is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air (P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam,

Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

**Recommendations of the Committee:**

**27.1.14:** In view of the foregoing and after detailed deliberation, the Committee ***recommended the above mentioned project*** for grant of Terms of Reference by prescribing following specific ToRs for undertaking detailed EIA and EMP study and conduct Public Consultation (along with the public hearing) in addition to generic ToR given at Annexure-I, subject to uploading of written submissions:

**Specific ToRs:**

- i. Project Proponent shall submit the drone video & photographs of the ML area and transportation route proposed for this project with special focus on the sensitive receptors in the ML area and in the transportation route.
- ii. Project proponent shall submit the Stage – I forestry clearance on the 362.109 Ha of forest land involved in the mine lease area.
- iii. Project proponent shall submit an action plan for relocation of four schools located within the ML area and schools in close vicinity to the lease area in consultation with the State Government of Chhattisgarh.
- iv. A Cumulative Environmental Impact Assessment study of all the coal mines situated adjacent to the mine lease area shall be conducted and the same shall be included in the EIA/EMP report. Details of industrial units present in 10 Km radius of the ML area shall be earmarked in map and submitted.
- v. PP shall submit a letter from the State Forest Department for the impact on the baseline data of the forest area due to the mining activities of the instant project.
- vi. Biodiversity analysis of the core zone and buffer zone of the ML area shall be done through any reputed institutions having NABET accreditation. The study report shall inter-alia include impact of mining on flora and fauna and action plan for complying with the mitigation measures shall be submitted. The Ecology and biodiversity study should include likely impact of land use change in terms of use of forest area for surface infrastructural development in relation to the climate change of that area and what will be the affect after adopting the mitigation measures.
- vii. PP shall explore the possibilities of utilization of OB material for different purposes (in construction of roads/ manufacture of artificial sand, aggregates/ use for farmers etc.) and accordingly Plan shall be included in EIA/EMP Report.
- viii. Inpit conveyor belt with silo loading shall be proposed and installed for transportation of coal till railway siding.
- ix. Project proponent to prepare Environmental Cost Benefit Analysis for the project in EIA/EMP Report.
- x. No mining activity shall be proposed on 267.90 Ha of grazing land till the alternate land is provided of same area to the community. PP shall strictly adhere with the rules of State Government in this regard and provide alternate land for grazing to the villagers in consultation with the District Collector. Valid documents in this regard shall be submitted along with the application for EC.

- xi. Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted.
- xii. Project proponent shall prepare Watershed management plan for Kelo river through a reputed institutions having NABET accreditation. Project proponent shall submit the same along with the matrix containing action plan to comply with the recommendations of the study report with physical & financial outlay.
- xiii. The socio-economic study shall be conducted with actual survey report and a comparative assessment to be provided from the census data of 2011-part B to be provided in EIA/ EMP report also economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data of 2011 part A to be provided and to link it with the initialization and quantification of need based survey for CER activities to be followed.
- xiv. A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality and noise quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.
- xv. Project proponent shall prepare the EIA-EMP report and thereafter conduct the Public Consultation, including public hearing, through concerned SPCB in the Raigarh District as per the provisions/procedure contained in the EIA Notification, 2006.
- xvi. PP shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.
- xvii. As per the Ministry's OM dated 30.09.2020, to address the concerns raised during Public Hearing, Project Proponent is required to submit the detailed activities proposed with year wise budgetary provision for next 5 years (Capital and recurring). Activities proposed shall be part of EMP.
- xviii. PP should provide in the EIA Report details of all the statutory clearances, permissions, no objection certificates, consents etc. required for this project under various Acts, Rules and regulations and their status or estimated timeline after grant of EC.
- xix. The PP should submit the number of saplings to be planted in area to be covered under afforestation & green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development. In addition to this PP should show on a surface plan (5-year interval for life of mine) of suitable scale the area to be covered under afforestation & green belt clearly mentioning the latitude and longitude of the area to be covered during each 5 years. The capital and recurring expenditure to be incurred needs to be submitted. Plantation plan should be prepared in such a way that 80% of the plantation to be carried out in first 5 years and for the remaining years the proposal for gap filling. The seedling of height not less than 2 meters to be selected and accordingly cost of plantation needs to be decided. In addition to this plantation in the safety zone at lease boundary the plantation should be

completed within 2 years only. PP should submit a concurrent plantation plan.

- xx. Project Proponent should submit the quantity of surface or ground water to be used for this project. The complete water balance cycle need to be submitted. In addition to this PP should submit a detailed plan for rain water harvesting measures to be taken. The PP should submit the year wise target for reduction in consumption of the ground/surface water by developing alternative source of water through rain water harvesting measures. The capital and recurring expenditure to be incurred needs to be submitted.
- xxi. Project Proponent shall obtain water withdrawal permission from CGWA for 3275 KLD.
- xxii. Project Proponent shall obtain permission from the competent authority for diversion of 765 KV High Power Transmission (HT) and copy of the same shall be submitted.
- xxiii. Project Proponent shall obtain permission from the competent authority for diversion of Raigarh-Tamnar-Lelunga Road and copy of the same shall be submitted.
- xxiv. Project Proponent shall obtain permission from the Water Resource Department for diversion of Chinni Nallah and copy of the same shall be submitted.
- xxv. Project Proponent should clearly bring out the details of the manpower to be engaged for this project with their roles /responsibilities/designations. In addition to this PP should mention the number and designation of person to be engaged for implementation of environmental management plan (EMP). The capital and recurring expenditure to be incurred needs to be submitted.
- xxvi. Project Proponent should submit the year-wise, activity wise and time bound budget earmarked for EMP, occupational health surveillance, and activities proposed to address the issues raised during Public Hearing. The capital and recurring expenditure to be incurred needs to be submitted.
- xxvii. In case of ground water abstraction/intersection, the PP shall comply with the Ministry's OM dated 23/05/2019. Compliance status needs to be presented before EAC at the time of appraisal
- xxviii. Project Proponent should clearly bring out that what is the specific diesel consumption ~ (Liters/Tonne of total material handled) and steps to be taken for reduction of the same. The year-wise target for reduction in the specific diesel consumption needs to be submitted. PP shall also explore the possibility of using e-vehicles/LPG/CNG-based machinery and trucks for the operation and transportation of coal.
- xxix. All the certificates viz. Involvement of Forest land, distance from protected area, and list of flora & fauna should be duly authenticated by the Forest Department. The Certificate should bear the name, designation, official seal of the person signing the certificate and dispatch number.
- xxx. Details on waste water generation (Industrial and domestic), their treatment (technology, methodology and capacity) and disposal to be submitted.
- xxxi. Details on renewable energy proposed to be installed as energy conservation measures shall be submitted.
- xxxii. PP shall submit the action plan to adhere to the Plastic Waste Management Rules

2016 and to adhere Ministry's OM dated 18/07/2022.

- xxxiii. PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of the Environment Management Plan vis-à-vis reduction in the concentration of emission for each APCE.
- xxxiv. The PP should ensure that only NABET accredited consultant shall be engaged for the preparation of EIA/EMP Reports. PP shall ensure that accreditation of consultant shall be valid during the collection of baseline data, preparation of EIA/EMP report and during the appraisal process. The PP and consultant should submit an undertaking the information and data provided in the EIA Report and submitted to the Ministry are factually correct and PP and consultant are fully accountable for the same.
- xxxv. The PP should submit the photographs of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs which will analyse the samples.
- xxxvi. The R&R Plan shall be prepared in consultation with the district collector for the 8 villages namely- Pelma, Urba, Maduadumar, Lalpur, Hinjhar, Jarhidih, Sakta & Milupara village.
- xxxvii. Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5<sup>th</sup> June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development.
- xxxviii. Necessary coordination shall be made with concerned SPCB (who is responsible for Compliance of OM dated 14.01.2025) regarding streamlining the implementation of GSR 702 and GSR 703 dated 12.11.2024 through which projects requiring prior EC were exempted from requirement of CTE.

**Agenda Item No. 27.2:**

**27.2:** Expansion of Ketki Underground Coal Mine (Increase in production capacity from 0.42 MTPA to 0.87 MTPA with no increase in ML area: 548.65 Ha) by M/s **South Eastern Coalfields Limited** located at villages Jogba, Ketka & Lacha; Tehsil: Surajpur; **District: Surguja; State: Chhattisgarh - Prescribing of Terms of Reference – reg.**

**[Online Proposal No. IA/CG/CMIN/490460/2024; Consultant: Srushti Seva Private Limited - NABET/EIA/21-24/SA 0229 valid up to 12.08.2025]**

**27.2.1:** M/s. South Eastern Coalfields Limited (SECL) has made an online application vide proposal no. IA/CG/CMIN/490460 Dated 30/09/2024 along with the application in prescribed format (Form-I), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at Item No. 1(a) Mining of minerals under Category "A" of the schedule of the EIA Notification, 2006. Hence, the project is being considered at Central level. The project does not attract General Condition.

Ketki Expansion Underground Mine is proposed for increase in production capacity from 0.42 MTPA to 0.87 MTPA within the same ML area of 548.65 Ha located in Jogba, Ketka & Lacha Villages, Surajpur Tehsil, Surajpur District, State Chhattisgarh.

**Details of the proposal, as ascertained from the proposal documents and as revealed from the discussion held during the meeting, are given as under:**

### 27.2.2: Previous approvals:

S. No.	Details of Letter No.	EC/Expansion EC/Amendment in EC/Validity extension/Transfer of EC	Capacity (MTPA)	Area (ha)	Date of Issuance	Status of Implementation.
1	J-11015/535/2007- IA.II(M) dated 15/04/2009	Environment Clearance	0.42	548.65	15.04.2009	Being implemented

W.r.t the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from 10.01.2023 onwards. Details of the same are as follows:

Year	Actual Coal Production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess production
2023-24	0.028	0.42	NIL
2024-25	0.125	0.42	NIL

### 27.2.3: Environmental Site Settings:

The project area is covered under Survey of India Topo sheet No 64 I/16 and is bounded by the geographical coordinates ranging from Latitude 23°05'40" to 23°09'24"N & Longitudes 82°49' 43" to 82°55'00" E.

Project does not fall in the Critically Polluted Area (CPA)/Severally Polluted Area (SPA), as per CEPI Assessment, 2018.

**Forest Area:** The project involves total 207.99 ha of forestland. Stage – II forest clearance on the same has been obtained vide letter no. F.No.8-13/2016-FC, dated 28.02.2019 for underground mining along with the permission of 5.08 Ha for surface rights. Proponent further submitted that the total broken forestland as on date is 5.08 Ha and the project does not involve the violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

**Protected Area:** The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. The Wildlife Conservation Plan has been prepared and approved by the CWLW vide letter dated 25.10.2017 (as per list given in approved wildlife conservation plan Peacock, Sloth Bear, Indian Pangolin, Indian Wild Boar, Panther, Python, Russel Viper, Indian Starred Tortoise are the Schedule-1 species present within the study area).

**Mining Lease:** Following are the mine lease details submitted by the PP:

S. No.	Govt. Order/Notifications as the case may be	Area (ha)
1	Section 4 (i) obtained vide SO 59 dated 10.01.2004. Section 7 (i) obtained vide SO 782 dated 05.03.2005. Section 9 (i) obtained vide SO 629 dated 03.03.2007. Section 11 (i) obtained vide SO 2929 dated 06.10.2007.	5.30 ha All Rights + 543.35 ha Mining Rights

S. No.	Govt. Order/Notifications as the case may be	Area (ha)
	<b>TOTAL</b>	<b>548.65 ha</b>

PP submitted that the lease was executed on 25.10.2009 and the same is valid till 24.10.2039.

### Other Sensitive Receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
i. Habitation	<b>Village</b>	<b>Distance</b>	<b>Direction</b>
	Jobga	Within ML area	
	Ketka	500 m	North
	Lacha	Within ML	West
ii. School	<b>Schools</b>	<b>Distance</b>	<b>Direction</b>
	Mani	3 Kms	North East
	Podi	4 kms	North
iii. River/ Waterbody	<b>River /Nallah</b>	<b>Distance</b>	<b>Direction</b>
	Jobga Nallah	800 mtrs	Flowing south easterly and forms the eastern boundary of the Mine lease.
	Rehar River	5.77	East
iv. Forest	<b>Reserved / Protected forests</b>	<b>Distance</b>	<b>Direction</b>
	Rajapur PF	Within ML area	South East part of lease.
	Ketka PF	Adjacent to ML	North
	Ketka RF	1 km	North
v. Archaeological Survey of India (ASI) protected site	No		
vi. Any other	No		

There are no diversions proposed for the said project.

**Mitigation measures proposed:** This being an existing underground mine, the mitigation measures like Water sprinkling on transportation route & unloading/loading point at Mine site, Settling Tank at Surface, are in place and shall be further strengthened during proposed expansion.

**27.2.4: Mining Plan and Mine Closure Plan:** The revised mining plan & mine closure plan for the project has been approved by Committee of Functional Directors, SECL in 275th meeting held on 20/02/2025 for capacity 0.87 MTPA within the ML Area 548.65 ha area, vide letter SECL/BSP/CAD/275th CoFD EXT/24-25/1995 dated 22.02.2025.

1. Method of Mining to be adopted shall be underground and excavation of coal is proposed through Continuous Miner Technology.
2. Total geological reserve reported in the mine lease area is 24.004 MT with 19.70 MT mineable reserve. Out of total mineable reserve of 19.70 MT, 12.01 MT are available for extraction (as on 01.04.2024) by Underground. Percent of extraction is 50.03%.
3. Out of 4 seams available, 1 coal seams with thickness ranging from 1.2 m – 5.03 m is workable. Grade of coal is generally Grade 7.

4. Life of mine is 15 years (as on 01.04.2024)
5. The project does not have any OB dump in the said project, as it is and underground mine.
6. Details of land use pattern:
  - a. Pre-mining:

S. No.	Land Use	Within ML Area (ha)	Outside ML Area (ha)	Total (ha)
1	Agricultural Land	298.01	NIL	298.01
2	Forest Land (Protected)	207.99	NIL	207.99
3	Waste land	NIL	NIL	NIL
4	Grazing Land	NIL	Nil	NIL
5	Surface Water Bodies	1.26		1.26
6	Settlements	11.80	Nil	11.80
7	Others (including Govt Land/Infra & Road)	29.59	Nil	29.59
	<b>TOTAL</b>	<b>548.65</b>		<b>548.65</b>

- b. Post – mining:

S. No.	Land use	Land use in Ha				
		Plantation	Water Body	Public Use	Undisturbed	Total
1.	Roads/ existing structures/ settlement/ water bodies.	0	1.26	11.175	0	12.435
2.	Mine infrastructure/ Mine entries/ Office.	0	0	5.08	0	5.08
3.	Plantation Area	0.775	0	0	0	0.775
4.	Undisturbed Area (Below which UG mining being/ will be continued)	0	0	0	530.36	530.36
	<b>TOTAL</b>	<b>0.775</b>	<b>1.26</b>	<b>16.225</b>	<b>530.36</b>	<b>548.65</b>

7. Details of transportation of Coal:
  - i. In-pit to surface: By belt- conveyor of (3750 m)
  - ii. Surface to siding: By road (at a distance of 22.3 km)
  - iii. Siding to loading: By rail
  - iv. Quantity being transported by Road/Rail/conveyer/ropeway: 2636 Tonnes per day by Road to Kumda Rly siding at a distance of 22.3 km.
8. Details of reclamation: Afforestation shall be done progressively covering an area of: 0.775 ha at the end of mining. This will include only greenbelt development of 0.775 Ha with the density of plantation of 2500 plants/ Ha.

#### 27.2.5: Baseline Data:

Period	Oct 2024 to Dec 2024		
AAQ parameters at three locations (Near Jobga Village, Near Incline & Near Lachha Village)	<b>Core zone (Near Jobga Village):</b> PM <sub>2.5</sub> = 22 To 25.4 µg/m <sup>3</sup> PM <sub>10</sub> = 50.6 To 58.4 µg/m <sup>3</sup> SO <sub>2</sub> = 14.5 to 16.7 µg/m <sup>3</sup> No <sub>x</sub> = 18.8 To 21.7 µg/m <sup>3</sup>	<b>Core zone (Near Incline):</b> PM <sub>2.5</sub> = 27 To 30.9 µg/m <sup>3</sup> PM <sub>10</sub> = 54 To 61.8 µg/m <sup>3</sup> SO <sub>2</sub> = 17.4 to 19.9 µg/m <sup>3</sup> No <sub>x</sub> = 24.4 To 27.9 µg/m <sup>3</sup> CO = NA	<b>Core zone (Near Lachha Village):</b> PM <sub>2.5</sub> = 22.1 To 24.9 µg/m <sup>3</sup> PM <sub>10</sub> = 46.7 To 53.3 µg/m <sup>3</sup> SO <sub>2</sub> = 17.4 to 22.7 µg/m <sup>3</sup> No <sub>x</sub> = 25.4 To 32.7 µg/m <sup>3</sup>

Period	Oct 2024 to Dec 2024		
in core zone & 9 Locations in buffer zone (min and max).	CO = BDL <b>Buffer Zone:</b> PM <sub>2.5</sub> = 16.8 To 30.9 µg/m <sup>3</sup> PM <sub>10</sub> = 41.9 To 61.8 µg/m <sup>3</sup> SO <sub>2</sub> = 10.8 to 22.7 µg/m <sup>3</sup> No <sub>x</sub> = 12.6 To 32.7 µg/m <sup>3</sup> CO = BDL		CO = NA
Incremental GLC Level	Will assess by modelling after receipt of TOR and during preparation of Draft EIA/EMP		
Ground water quality at 4 Locations.	pH: 6.93 to 7.42, Total Hardness: 91 to 142 mg/l, Chlorides: 23.6 to 66.8 mg/l, Fluoride: 0.12 to 0.19 mg/l. Iron: 0.042 to 0.148mg/l Cadmium: BDL Lead: BDL Selenium: BDL Total Arsenic: BDL Zinc: BDL Total Chromium: BDL Nickel: BDL		
Surface water quality at 4 Locations	pH: 7.35 to 8.05; DO: 5.4 to 6.8 mg/l and BOD: 2.2 to 3.4 mg/l. COD from 10 to 30 mg/l.		
Noise levels Leq (Day and Night)	<b>Industrial:</b> 40.6 to 52.8 Leq dB (A) for the day time and 40.6 to 49.2 Leq dB (A) for the Night time. <b>Residential:</b> 45 to 56.9 Leq dB (A) for the day time and 37.9 to 51.6 Leq dB (A) for the Night time.		
Traffic assessment study findings	Traffic study will be undertaken in the instant proposal as the entire coal is being transported from Mine to siding by Road. Necessary Impact assessment by modelling using AERMOD will be done and accordingly mitigation measures by way of using CNG/ LNG/ Electric vehicles for transportation will be provided in the EIA/EMP report.		
Flora and fauna	There is presence of schedule I fauna in the study area of the said project (namely: plan Peacock, Sloth Bear, Indian Pangolin, Indian Wild Boar, Panther, Python, Russel Viper, Indian Starred Tortoise). The Wildlife Conservation Plan has been prepared and approved by the CWLW vide letter dated 25.10.2017.		
Water Requirement	Source of Water: a) Surface water – Nil b) Ground water – 3239 KLD (mine dewatering) c) Other (if any) – 15 KLD (for potable use in mine through tube well outside lease).  Ground Water Intersection: Pre-monsoon – 7.03 m to 7.87 m Post-monsoon – 2.51 m to 2.63 m  Water Requirement: Ground water – 2900 KLD (Industrial Use) Domestic: 50 KLD + Miscellaneous: 50 KLD  NOC (For surface water): NIL  NOC (Ground Water): Existing NOC for ground water abstraction has been obtained vide no. CGWA/NOC/ORIG/2023/19481 (valid upto 26.10.2025). Application for Renewal of NOC for expansion will be submitted by 20.07.2025.		

**27.2.6: Details of Water Requirement:** PP submitted that the water requirement for the said project is 3000 KLD (industrial: 2900 KLD + Domestic: 50 KLD + Miscellaneous: 50 KLD). Source of water shall be mine pumped water and NoC for the same has been obtained from CGWA vide no. CGWA/NOC/ORIG/2023/19481, valid till 26.10.2025. PP further submitted that application for NoC for the expansion project shall be submitted by 20.07.2025.

Further, PP also submitted that, no waterbody is proposed for diversion for the said project.

**27.2.7: Details of Power Requirement and diversion of High-Tension/Transmission Line:**

The power requirement for the said project is 4 MVA. The Ketki underground Project receives power at 33 kV from the Main 33kV Substation of Gayatri Project of SECL by means of overhead feeder & shall continue. Further, PP submitted that no HT Line/ Transmission line is proposed for diversion.

**27.2.8: Details of Solid and Hazardous Waste Generation:**

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1.	Domestic Waste	Mine Canteen	14	Organic decomposition	Organic decomposition and reuse in plantation
2.	Packaging material and waste (Plastic Waste)	Office, canteen workshop, store	0.2	Store	Through authorized recycler
3.	e- waste	Computer, hardware and telecommunication equipment from office, workshop, store.	0.15	store	Through authorized recycler
4.	Battery Waste	LED cap lamps and automobile batteries	0.02	Store	Through e-auction to authorized recycler / disposal facilitator.
5.	Bio medical waste	First aid center	0.002	Collected in dedicated bins	Through authorized recycler
6.	Hazardous waste	Cat 5.1 – Used / Burnt Oil.  Cat 5.2 – Used filter, oil hose and jute soaked in oil. (from HEMM)	2.7  0.03	Stored in MS drums on concrete floor in separate Hazardous waste storage rooms.	Through authorized TSDF.

**27.2.9: Plantation:** Being an underground mining project the proposed area for plantation is 0.775 Ha @2500 trees per Ha.

**27.2.10: Rehabilitation & Resettlement Plan:** The project does not involve any R&R issues.

**27.2.11: Project Cost:** The capital cost for the said project is Rs. 390.49 crores (existing Rs. 46.24 crore and Rs. 344.25 crore for the proposed expansion).

**27.2.12: Legal Issues/ Violation:** PP reported that there is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air (P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

**27.2.13: Written Submissions:** PP submitted the following information during the meeting:

S. No.	Observations	Response of PP				
		S.No.	LAND USE (pre – mining)	Within ML Area (ha)	Outside ML Area (ha)	TOTAL (ha)
1.	Land Use details of the Mine	1.	Agriculture Land	298.01	-	298.01
		2.	Forest Land	207.99	-	207.99
		3.	Waste Land	-	-	-
		4.	Grazing Land	-	-	-
		5.	Surface water bodies	1.26	-	1.26
		6.	Settlements	11.80	-	11.80
		7.	Others (Govt.Land/ Infra. & Road)	29.59	-	29.59
		TOTAL		548.65	0	548.65
		S.N.	Land Use (post – mining)	Land Use in ha		
				Plantation	Water Body	Public Use
				Undisturbed	Total	

S. No.	Observations	Response of PP						
		1.	Roads/ existing structures/ settlement/ water bodies.	0	1.26	11.175	0	12.435
		2.	Mine infrastructure/ Mine entries/ Office.	0	0	5.08	0	5.08
		3.	Plantation Area	0.775	0	0	0	0.775
		4.	Undisturbed Area (Below which UG mining being/ will be continued	0	0	0	530.36	530.36
			Total	0.775	1.26	16.225	530.36	548.65
2.	Approval of Wild Life Conservation Plan	PP submitted the same.						
3.	Authorisation letter of Area General Manager	PP submitted the same.						
4.	Copy of Environment Clearance	PP submitted the same.						

### Deliberations and Observations of the Committee:

#### 27.2.14: The Committee noted the following:

1. The instant proposal is for grant of terms of reference for Ketki Expansion Underground Mine (ML area: 548.65 Ha with increase in production capacity from 0.42 MTPA to 0.87 MTPA) of M/s South Eastern Coalfields Limited, located at villages Jogba, Ketka & Lacha; Tehsil: Surajpur; District: Surguja; State: Chhattisgarh.
2. The PP earlier obtained EC for the said project for the production capacity of 0.42 MTPA in the ML area of 548.65 Ha vide EC letter dated 15.04.2009. The mine started production from the year 2023 onwards.
3. The project does not fall in the Critically Polluted Area (CPA)/Severally Polluted Area (SPA), as per CEPI Assessment, 2018.
4. The project involves total 207.99 ha of forestland. Stage – II forest clearance on the same has been obtained vide letter no. F.No.8-13/2016-FC, dated 28.02.2019 for underground mining along with the permission of 5.08 Ha for surface rights. PP further submitted that the total broken forestland as on date is 5.08 Ha and the project does not involve the violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

5. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. The Wildlife Conservation Plan has been prepared and approved by the CWLW vide letter dated 25.10.2017 (as per list given in approved wildlife conservation plan Peacock, Sloth Bear, Indian Pangolin, Indian Wild Boar, Panther, Python, Russel Viper, Indian Starred Tortoise are the Schedule-1 species present within the study area). Committee opined that the Wildlife Conservation Plan shall be updated and accordingly the updated WLCP shall be implemented.
6. The revised mining plan & mine closure plan for the project has been approved by Committee of Functional Directors, SECL in 275th meeting held on 20/02/2025 for capacity 0.87 MTPA within the ML Area 548.65 ha area, vide letter SECL/BSP/CAD/275th CoFD EXT/24-25/1995 dated 22.02.2025.
7. Method of Mining to be adopted shall be underground and excavation of coal is proposed through Continuous Miner Technology.
8. Total geological reserve reported in the mine lease area is 24.004 MT with 19.70 MT mineable reserve. Out of total mineable reserve of 19.70 MT, 12.01 MT are available for extraction (as on 01.04.2024) by Underground. Percent of extraction is 50.03%.
9. Out of 4 seams available, 1 coal seams with thickness ranging from 1.2 m – 5.03 m is workable. Grade of coal is generally Grade 7.
10. Life of mine is 15 years (as on 01.04.2024)
11. Committee observed some discrepancy in the land use pattern submitted by the PP. PP submitted the corrected version of the same.
12. Committee deliberated on the method of transportation of coal and observed that, from in-pit to surface, the coal will be transported through conveyor belt, from surface to siding the coal will be transported by road and from siding to the final consumer the coal will be transported through railway. Committee opined that the PP shall make adequate provisions for the control of air pollution which will be caused due to road transportation of coal. Special emphasis shall be given on the plantation activities along the coal transportation road.
13. Committee deliberated on the baseline data submitted by the PP and observed the same to be within the prescribed limits. Committee further opined that PP shall also obtain a letter from the state forest department for the impact of mining related activities on the forest area due to the said project.
14. Committee during deliberation observed that no CAAQMS has been installed in the said project and opined that PP shall install atleast 1 CAAQMS in the mine infrastructure area before submitting the application for EC.
15. Committee deliberated on the water requirement of the said project and observed that, the total water required for the said project is 3000 KLD (industrial: 2900 KLD + Domestic: 50 KLD + Miscellaneous: 50 KLD). Source of water shall be mine pumped water and NoC for the same has been obtained from CGWA vide no. CGWA/NOC/ORIG/2023/19481, valid till 26.10.2025. PP further submitted that application for NoC for the expansion project shall be submitted by 20.07.2025.

Committee observed that no waterbody is proposed for diversion for the instant project. Committee further opined that, atleast 15 water harvesting structures shall be made within the ML area in consultation with the CGWA.

16. Committee opined that, PP shall carry out hydrological study of the Jogba nallah flowing in the close vicinity of the ML area.
17. The power requirement for the said project is 4 MVA The Ketki underground Project receives power at 33 kV from the Main 33kV Substation of Gayatri Project of SECL by means of overhead feeder & shall continue and no HT Line/ Transmission line is proposed for diversion.
18. Committee deliberated on the plantation activities proposed by the PP and observed that, only 0.775 Ha of the ML area is proposed for plantation. Committee opined that PP shall also carry out plantation in the forestland involved in the project, with the help of state forest department. Plantation in forestland shall be developed before submitting the application for EC. Apart from this, PP shall focus on agro-forestry and fruit bearing species shall be distributed and planted on the periphery of the agricultural farms of the villagers, by developing a plan to compensate the farmers/ villagers for survival of these fruit bearing trees.
19. Committee opined that the project proponent shall explore the feasibility of developing safe and adequate lighting facilities in the underground mines.
20. The project does not involve the rehabilitation and resettlement issues.
21. The capital cost for the said project is Rs. 390.49 crores (existing Rs. 46.24 crore and Rs. 344.25 crore for the proposed expansion).
22. Committee further opined that, the PP shall comply with all the recommendations of the sub-committee site visit, before submitting the application for EC, and the compliance status of the same shall be submitted along with the EC application.
23. The project does not have any legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air (P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.
24. Committee opined that PP shall align its activities with the sustainable development goals.
25. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.

#### **Recommendations of the Committee:**

**27.2.15:** In view of the foregoing and after detailed deliberation, the Committee ***recommended the above mentioned project*** for grant of Terms of Reference by prescribing following specific ToRs for undertaking detailed EIA and EMP study and conduct Public Consultation (along with the public hearing) in addition to generic ToR given at Annexure-I, subject to uploading of written submissions:

#### **Specific ToRs:**

1. Project proponent shall prepare the EIA-EMP report and thereafter conduct the Public Consultation, including public hearing, through concerned SPCB in the Surguja District as per the provisions/procedure contained in the EIA Notification, 2006.

2. Project Proponent shall submit the detailed activities proposed with year-wise budgetary provisions (Capital and recurring) as per the Ministry's OM dated 30.09.2020, to address the concerns raised during the Public consultation including the public hearing. Activities proposed shall be part of the EMP. PP shall also carry out Occupational health survey in the study area and the same shall be included in the EIA/EMP report.
3. Certified compliance report containing compliance to the prescribed EC conditions for the existing EC as per the MoEF&CC O.M. dated 08/06/2022 shall be submitted
4. Project proponent shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.
5. Impact of underground mining on the environment including underground mine air quality needs to be done by a reputed institute having NABET accreditation. The action plan on recommendation of study with budgetary provision needs to be submitted.
6. Project proponent has to Plot the wind rose diagram using the typical meteorological year (TMY) data for the period considered for the study. The monitoring units shall be deployed in the field based on the coverage area ratio and direction of the wind. A mathematical model shall be developed for the local site rather than using the standard model available in software for both air & water quality modelling. Project proponent should also increase the number of air pollution monitoring stations and incorporate the data in EIA report.
7. As the project involves groundwater intersection, a hydrogeological study shall be carried out by reputed institute. Further, PP shall comply with the Ministry's OM dated 23.05.2019 and provide necessary details/studies in the EIA/EMP Report.
8. Project proponent shall submit the drone video & photographs of mine lease area to be mined and proposed transportation route (with special focus on sensitive receptors in ML area and transportation route). The height and speed of the drone shall be so maintained to give legible images/videos. Necessary titles should be included for better understanding.
9. Project proponent should submit the number of saplings to be planted in area to be covered under afforestation & green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development. In addition to this PP should show on a surface plan (5-year interval for life of mine) of suitable scale the area to be covered under afforestation & green belt clearly mentioning the latitude and longitude of the area to be covered during each 5 years. The capital and recurring expenditure to be incurred needs to be submitted. Plantation plan should be prepared in such a way that 80% of the plantation to be carried out in first 5 years and for the remaining years the proposal for gap filling. The seedling of height not less than 2 meters to be selected and accordingly cost of plantation needs to be decided. In addition to this plantation in the safety zone at lease boundary the plantation should be completed within 2 years only. PP should submit a concurrent plantation plan.

10. The plan for plantation shall separately be made for road side plantation with native species. A plan for distribution of fruit bearing species to the local villagers and farmers shall be developed along with the budgetary provision for compensating them for the survival of those fruit bearing trees.
11. The site-specific wildlife conservation plan shall be updated and the updated SSWLCP shall be submitted along with the approval of the PCCF (Wildlife).
12. Project proponent shall obtain a letter from the state forest department regarding the impact of the mining activities of the said mine on the forestland and the same shall be submitted along with the application of Environment Clearance.
13. Project Proponent shall submit action plan for installation of 2 nos of CAAQMS (one in core zone & one in buffer zone).
14. Project proponent shall submit a plan for developing rain water harvesting structures (in consultation with CGWA) within the study area. Project proponent should identify ponds in the vicinity of ML area and prepare a time-bound action plan along with the financial outlay to rejuvenate and beautify the identified ponds.
15. Project proponent shall carryout hydrological study of the Jogba nallah through a NABET accredited consultant. Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted.
16. Project proponent shall explore the feasibility of developing safe and adequate lighting facilities in the underground mines.
17. All the recommendations of the sub – committee site visit report held during 10-11<sup>th</sup> April, 2025 shall be complied upon by the proponent and the compliance of the same shall be submitted along with the application for EC.
18. Project proponent should submit the quantity of surface or ground water to be used for this project. The complete water balance cycle need to be submitted. In addition to this PP shall submit a detailed plan for rain water harvesting measures to be taken. The PP shall submit the year wise target for reduction in consumption of the ground/surface water by developing alternative source of water through rain water harvesting measures. The capital and recurring expenditure to be incurred needs to be submitted.
19. Project proponent should clearly bring out the details of the manpower to be engaged for this project with their roles /responsibilities/designations. In addition to this PP should mention the number and designation of person to be engaged under Environment Management Cell for implementation of environmental management plan (EMP). The capital and recurring expenditure to be incurred needs to be submitted.
20. Project proponent should clearly show the transport route of the mineral and protection and mitigative measures to be adopted while transporting of the mineral. Alternate route for road transportation shall be explored, which shall reduce the area

of road transportation of coal and habitation is not impacted. The impact from the centre line of the Rail/road/conveyor on either side should be brought out clearly. Based on the above study the compensation to be paid in the event of damage to the crop and land on either side of the Rail/road/conveyor needs to be mentioned.

21. A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality and noise quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report. All the certificates viz. Involvement of Forest land, distance from the protected area, and list of flora & fauna should be duly authenticated by the Forest Department. The Certificate should bear the name, designation, official seal of the person signing the certificate and dispatch number.
22. Biodiversity analysis of the study area shall be done through any reputed institute having NABET accreditation. The study report shall inter-alia include impact of project on terrestrial/aquatic flora & fauna and action plan for complying with the mitigation measures shall be submitted.
23. Project proponent shall obtain the CGWA permission for withdrawal of 3000 KLD water.
24. Necessary coordination shall be made with concerned SPCB (who is responsible for Compliance of OM dated 14-01 2025) regarding streamlining the implementation of GSR 702 and GSR 703 dated 12-11-2024 through which projects requiring prior EC were exempted from requirement of CTE.
25. Project proponent shall submit the action plan to adhere to the Plastic Waste Management Rules 2016 and to adhere Ministry's OM dated 18/07/2022.
26. Project proponent shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of the Environment Management Plan vis-à-vis reduction in concentration of emission for each APCEs.
27. It should be ensured that only NABET-accredited consultants shall be engaged for the preparation of EIA/EMP Reports. PP shall ensure that the accreditation of the consultant is valid during the collection of baseline data, preparation of EIA/EMP report and the appraisal process. The PP and consultant should submit an undertaking the information and data provided in the EIA Report and submitted to the Ministry are factually correct and the PP and consultant are fully accountable for the same.
28. Project proponent shall submit the photographs of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs, which will analyze the samples.
29. Project proponent shall align its activities to one/few of the Sustainable Development Goals (SDG) and start working on the mission of net zero emission by 2050. PP shall update the same to the EAC.

30. Study on subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
31. Project proponent should provide in the EIA Report details of the statutory clearances, permissions, no objection certificates, consents etc. required for this project under various Acts, Rules and regulations and their status or estimated timeline.
32. Project proponent shall provide the details of wastewater treatment facilities to be installed within its capacity, timeline and budget. The EIA report should also include details of STP and ETP to be provided for treatment of domestic and industrial waste water.
33. Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development. The action in this regard shall be submitted concerned RO in six monthly report.

**Agenda Item No. 27.3:**

**27.3: Damini Underground Coal Mine [ML area: 335 Ha having production capacity of 0.48 MTPA] by M/s South Eastern Coalfields Limited, located at village: Khairah; Tehsil: Burhar; District: Shahdol; State: Madhya Pradesh – Revalidation of Environmental Clearance based on ADS Reply – reg.**

**[Online Proposal No. IA/MP/CMIN/9077/2002; Consultant: CMPDIL -NABET/EIA/22-25/SA 0223 valid up to 07.07.2025]**

**27.3.1:** M/s South Eastern Coalfields Limited has made an online application vide proposal no. IA/MP/CMIN/9077/2002 dated 06.09.2018 along with copy of EIA/EMP report, Form, Certified compliance report (as part of ADS reply) and sought for revalidation of Environment Clearance (EC) accorded to Damini Underground Coal Mine vide letter no. J-11015/47/2002-IA-II(M) on 05.10.2004 for production capacity of 0.48 MTPA in the ML area of 335 Ha, under the EIA Notification, 1994. The instant proposal is for obtaining revalidation of EC under EIA Notification, 2006, in compliance of the Gazette Notification S.O. No. 1530(E) dated 06/04/2018, for existing project.

The proposal was initially considered in 40<sup>th</sup> meeting of EAC (Coal Mining Sector) held on 26.10.2018. Proposal was deferred for want of additional information. As per the amendment to EIA Notification, 2006 on 20/04/2022, the proposed project activity is now listed at schedule no. 1(a) “mining of minerals” Under Category “B” of the schedule of the EIA Notification, 2006. However, as per the Ministry’s OM dated 27.09.2022, *“The proposals which have been considered/ appraised once by EAC either for ToR or EC, but final decision has not been taken, shall continue to be appraised at the Central level only, till final disposal for ToR/ EC, even after the amendments in the EIA Notification are issued from to time regarding delegation of projects to SEIAAs”*. Proponent submitted the additional information on 07.03.2025 and 26.05.2025 on Parivesh 1.0 portal. Since this proposal has been appraised one time earlier in the EAC meeting held on 26.10.2018, the project is now again placed before the EAC for consideration on 18.06.2025.

**Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:**

### 27.3.2: Previous Approvals in chronological orders:

S. No.	Details of Letter No.	EC/ Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC	Capacity	Area
1	J-11015/47/2002-IA-II(M) Date 05.10.2004	Fresh EC under EIA Notification 1994	0.48 MTPA	335 Ha

W.r.t. the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from FY 2007-08 onwards. CTO renewal has been obtained from MPPCB and is valid up to 31.12.2025. Details of the same are as follows:

Year	EC sanctioned capacity(MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity
2007-08	0.48	0.001001	Nil
2008-09	0.48	0.099237	Nil
2009-10	0.48	0.2908	Nil
2010-11	0.48	0.38715	Nil
2011-12	0.48	0.41725	Nil
2012-13	0.48	0.479975	Nil
2013-14	0.48	0.470233	Nil
2014-15	0.48	0.47403	Nil
2015-16	0.48	0.453688	Nil
2016-17	0.48	0.4128	Nil
2017-18	0.48	0.350386	Nil
2018-19	0.48	0.33006	Nil
2019-20	0.48	0.217101	Nil
2020-21	0.48	0.33664	Nil
2021-22	0.48	0.30156	Nil
2022-23	0.48	0.282675	Nil
2023-24	0.48	0.264590	Nil
2024-25	0.48	0.227957	Nil

**27.3.3: Certified Compliance Report:** The Status of compliance of earlier EC was obtained from Regional Office, Bhopal vide letter no. 3 -10/2004(Env) dated 03.01.2025 in the name of Damini Underground Coal Mine. The action taken report regarding the being complied / partially complied / non – complied conditions has been submitted to Regional Officer, MoEFCC, Bhopal on two occasions, vide letter no 6851 dated 28.01.2025 and letter no. 302 dated 14.05.2025. The details of the observations made by RO in the CCR report with ATR/compliance status as furnished by the PP is given as below.

S. No.	EC Condition	Compliance status as submitted by PP	Remarks/Recommendations of RO, MoEF&CC	ATR/Status of compliance
Specific condition no. vi	A green belt of adequate width should be raised by planting the local species along the mine boundary, are stockpile if any, ventilation fan, roads and in	<b>Being complied,</b> A green belt has been developed along the mine boundary, stockpile, ventilation fan and road by planting native species of plants. Total of 8,500 nos. of plants have been planted	<b>Compliance is in progress.</b> Plantation/green belt has been carried out at the working places and boundary for the purpose of dust suppression. It is yet be figured the greenbelt/number of species afforested all along the boundary and the area of the plantation. It is recommended	The mine has developed a green belt by planting 8,500 Native species of plants in 3.4 ha area all along the Land acquired for Surface infrastructures through MP Rajya Van Vikas Nigam

S. No.	EC Condition	Compliance status as submitted by PP	Remarks/Recommendations of RO, MoEF&CC	ATR/Status of compliance
	selected open areas in consultation with local DFO/Agriculture Department. Density of tree should be at least 2000 plants/ha.	along the mine boundary of the mine. More than 45,000 plants have been planted in patches along the coal transportation road from Damini UG Mine to Burhar Railway Siding by the Area management. Mine has also planted 14,000 plants in the subsidence zone of the mine during FY 23-24 with a density of 2500/ha. More plantation in coming years will be done. Apart from these, a 14 ft, 750m wind breaking wall is already constructed along the boundary and coal stockpile to minimize air borne dust. Photographs of plantation along the road and mine premises and work order copy are attached as Annexure – 4.	to continue the plantation with native species. The actual area for plantation yet to assessed and year wise plantation programme exclusively for Damini UG should be submitted. It is recommended to update the drawings with digitized maps, i.e., surface plans, greenbelt in mine boundary, connecting roads, ventilation area, etc.	Limited. In addition to that 14000 nos. of plantation in 5.6 ha of depillared area have been done in Year 2023. The plantation work is being done in consultation with state forest department under MOU with plant density of 2500 plants per Ha and native plant species. The present plant density is more than 2000 plants per Ha.
Specific condition no. viii	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board, Chhattisgarh Region.	<b>Being complied,</b> A rooftop Rainwater harvesting system is constructed at the project office for recharging the ground water level. Apart from this the mine water is treated in series of mine sumps and settling tanks after that the mine water is further settled in earthen polishing pond which also acts as a ground water recharge body. Mine management also provides settled mine water to nearby village pond for agricultural and other use of villagers. The	<b>Partly Complied</b> Consultation with Regional Director, Central Ground Water Board is not available for augmentation of groundwater resources in the area. However, NoC from CGWA is available which valid upto 28.08.2024 is. It is recommended that based on detailed hydrogeological study (Aug 2024), augmentation of ground water shall be carried out at identified locations considering factors of recharging area, hydraulic gradient, etc. Further, shaft sinking in identified rainwater harvesting pits for artificial recharge, recharging wells etc., should be carried out based on well hydraulics	The Hydrogeological Report of the Damini UG Mine was prepared by CMPDIL, RI-V, Bilaspur. And as per the recommendations in the report and instruction received from the CGWA, the mine management is maintaining the Rainwater Harvesting structure constructed at the Damini UG Manager office with a rooftop area of 125 Sq mtr. Apart from this, the mine management is also supplying treated mine water to nearby Kandoha village pond

S. No.	EC Condition	Compliance status as submitted by PP	Remarks/Recommendations of RO, MoEF&CC	ATR/Status of compliance
		pond also helps in maintaining ground water level in the village. The same water is used by local villagers for agriculture purpose.(Photos of ground water augmentation measures are attached as Annexure – 6)	of the area with monitored data.	for the use of local villagers for agriculture purpose. This also helps to maintain ground water level in village area. In addition to this, 02 more rainwater harvesting structure has been constructed in nearby Rajendra Nagar colony and mine with Shaft sinking method. The quarterly monitoring of GW is being carried out by network of wells, if water level goes down, suitable conservation measure are implemented.  A proposal for construction of additional rainwater harvesting structures at different locations of the Area is also under process in consultation with Central Ground Water Authority through its public notice and instructions.
Specific condition no. xiii	The project proponent should effectively implement actions in the conservation plan in consultation with the concerned forest officials. Specific measures as proposed in the conservation plan for restoration and rehabilitation of sloth bear,	<b>Being complied,</b>  There is no forest land falling the mine boundary, but in compliance of the condition stipulated in the EC letter a wildlife conservation plan has been prepared by TFRI, Jabalpur. The report is submitted for approval of wildlife warden. (A Copy of wildlife conservation plan with cover letter is attached as annexure 10).	<b>Partly Complied</b>  Integrated Wildlife Conservation Plan has been prepared and submitted to State Forest Department vide letter dated 07.07.2023. Implementation of the conservation plan is yet to be initiated.	Integrated Wildlife Conservation Plan has been prepared and submitted to State Forest Department vide letter dated 07.07.2023 and submitted to Chief Wildlife Warden, MP vide letter dated 15.09.2023. The wildlife conservation plan till date is under scrutiny as communicated by DFO, South Shahdol Vide letter dated 09.11.2023.

S. No.	EC Condition	Compliance status as submitted by PP	Remarks/Recommendations of RO, MoEF&CC	ATR/Status of compliance
	python and monitor lizard should be taken. The effectiveness of the conservation measure shall be monitored with inputs obtained from forest department and report furnished to this ministry and its Regional Office.			The approval of the wild life conservation plan and demand note for implementation of the same is still awaited from state forest department. <b>Budget: 2.93 Crs</b>

#### 27.3.4: Environmental Site Settings:

The project area is covered under Survey of India Toposheet No. 64E/8 and is bounded by the geographical coordinates ranging from Latitude: 23° 08' 08" to 23° 09' 16" N Longitude: 81° 26' 48" to 81° 28' 48" E.

Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018.

**Mining Lease:** PP submitted that said coal block of 473 Ha was acquired under the CBA Act, 1957 vide S.O. 2219 dated 18.06.2002. The rights are vested with the coal producing company perpetually. However, the mining activity is restricted to 325.379 Ha only. At present no activity has been done on remaining 147.621 Ha of land. The said land is coal bearing area and will be utilized for future mining or allied activities.

**Forest Area:** The project involves 9.621 Ha forest land, the details of the proposal applied for is as follows:

S. No.	Proposal No/Single Window No.	Area (ha)	Remarks
1.	Proposal No: <b>FP/MP/MIN/QRY/504139/2024</b> Single Window No: <b>SW/215054/2024</b>	9.621	PP submitted at the time of obtaining Mining Rights under the CBA Act, 1957 through Gazette Notifications S.O. 2219 dated 18.06.2002 and S.O. 1921 dated 27.07.2004, no forest land was identified within the proposed Environmental Clearance (EC) boundary of 335 Ha. Consequently, the EC was granted for 335 Ha with no forest land involved, vide MoEF&CC letter No. J-11015/47/2002-IA-II(M) dated 05.10.2004.  During land notification for Surface Rights under the CBA Act (Gazette Notification S.O. 3241 dated 19.10.2012), certain plot/Khasra numbers within the EC boundary were classified as Revenue Forest land, totaling 9.621 Ha across 09 small patches within the Damini UG Mine lease area. In compliance with the FC Act, 1980, a diversion proposal has been submitted via the PARIVESH Portal vide Single Window No.: SW/215054/2024 and

S. No.	Proposal No/Single Window No.	Area (ha)	Remarks
			<p>Proposal No.: FP/MP/MIN/QR/ 504139/2024.</p> <p>The said FC proposal was accepted in principle by PSC-I on 24.12.2024, and the DFO's site inspection report and recommendation along with recommendation of Member Secretary of State.</p> <p>Current Status Pending at Nodal Officer for Recommendation after PSC-II.</p> <p>As per submitted site inspection report and recommendation of DFO. No Mining activity has been done within this 9.621 Ha forest land the same is also observed in the DFO inspection report as "No violation of Forest Conservation Act, 1980 was observed in the subject project and No illegal activity has been carried out by the user agency on the forest land."</p> <p>The proposal was accepted in PSC - I on 24.12.2024, presently, the site inspection report by DFO is submitted to MS for recommendation for the project Scanning Committee - II for further processing of the proposal.</p> <p>Further, PP submitted an Undertaking, requesting to grant the revalidation of environment clearance by delinking 9.621 Ha of revenue forest land from the Damini underground coal mine, so that the mine operations do not get affected. After accord of Stage – I forest clearance, PP will apply for the amendment of Environmental clearance for the including 9.621 Ha revenue forest land in the revalidated EC to be accorded by the Ministry.</p>

PP further submitted that no forestland is broken up and the project does not involve the violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

**Protected Area:** The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. There is presence of Schedule – I species (namely: Monitor Lizard, Sloth Bear and Leopard, etc), and a wildlife conservation plan has been prepared and submitted to Chief Wild Life Warden, Bhopal for approval.

**Other Sensitive Receptors:**

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)
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Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
i. Habitation	Particulars	Distance	Direction
	Khairaha Village	Within mine boundary	
	Kandoha Village	Within mine boundary	
	Dhamni kala Village	Within mine boundary	
	Dhamni Khurd Village	Within mine boundary	
	Sironja	2 km	East
	Chirhati Village	3 km	North
	Rajendra township	3 km	East
ii. School	Particulars	Distance	Direction
	Govt. Middle School (Chirhati Village)	3 km	North East
	Private primary school (Chirhati Village)	3 km	North East
	Anganwadi (Chirhati Village)	3 km	North East
	Govt High School (Sironja Village)	2 km	East
	Anganwadi (Sironja Village)	2 km	East
	Private primary school (Sironja Village)	2 km	East
	Shishu Mandir Middle school (Sironja Village)	2 km	East
	Govt High School (Kannath Village)	1 km	South
	Govt primary School (Kannath Village)	1 km	South
iii. River/ Waterbody	Particulars	Distance/Direction	
	Baisaha nallah	East Near the edge of Mine Lease	
	Sarpha Nallah	South West Near the edge of Mine Lease	
	Kudari Nallah	Over the mine Lease towards North	
	Kathaha River	North West (4.5 km) (HFL:490.20 m)	
	Naragara River	North East (4.5 km) (HFL:489.40 m)	
iv. Forest	Particulars	Distance/Direction	
	Burhar RF	East Near Mine Lease Boundary	
v. Archaeological Survey of India (ASI) protected site	No		
vi. Any other	No		

No diversion is proposed at Damini UG Mine

**27.3.5: Method of Mining and Mining Plan:** Mining plan along with mine closure plan approved in the 244th Meeting of CoFD, SECL held on 06.09.2024 for the ML area of 335 Ha, for the production capacity of 0.48 MTPA.

1. Method of Mining to be adopted shall be Underground mining, with bord and pillar method.
2. There is no coal washery proposed in the project.
3. Net geological reserve reported in the mine lease area is 27.769 MT with 12.35 MT mineable reserves. The percentage of extraction is 44.47%. Out of total mineable reserve of 12.35 MT, 6.553 MT coal is available for extraction as on 01.04.2025.
4. There are 2 workable seams with thickness ranging from 0.50m to 4.19 m. Grade of coal is G-6 & G-7.
5. Life of mine is 15 years (as on 31.03.2024)

6. Details of Land use pattern:

a. Pre- mining land use:

Land Category	Within ML Area (Ha)	Outside ML Area (Ha)	Total
Agriculture Land	250.407	0	250.407
Forest Land	9.621	0	9.621
Waste land	0	0	0
Grazing land	0	0	0
Surface water bodies	12.028	0	12.028
Road & Infrastructure	19.222	0	19.222
Others	43.722	0	43.722
<b>Total</b>	<b>335</b>	<b>0</b>	<b>335</b>

b. Post – mining land use pattern:

S. No.	Type	Total Area (Ha)	Reclaimed Area (Ha)	Undisturbed area (Ha)
1	Mine take (UG working)	315.778	-	315.778*
2	Roads	8.222	-	8.222
3	Build up Area/Settlement	4	-	4
4	Surface Infrastructure + Safety Belt (plantation)	7	7	-
<b>Total</b>		<b>335</b>	<b>7</b>	<b>328</b>
*UG mine having minimum surface disturbance, this land will be gainfully utilized for plantation, solar panel installation, agriculture, and other purposes. Existing plantation on 5.6 ha of undisturbed area, 3.4 ha of plantation as green belt in mine surface infrastructure area. 68 Ha of undisturbed land has been proposed for plantation.				

7. Details of transportation:

- In-pit to surface:** Transportation of coal from underground to Bunkers (located on surface) is being done through series of conveyor belts.
- Surface to siding:** The transportation of coal from stock yard/bunker to Burhar Railway Siding by tarpaulin covered trucks/tippers (distance:13km, Type of road: 02 Lane (Two way) of 07m wide Black topped road)
- Siding to loading:** Coal from Burhar Railway siding will be loaded into railway wagons by mechanical means (i.e. payloaders).
- Quantity being transported by Road and rail:** In FY 2024-25, coal dispatched from rail was 0.090 MT and by road was 0.125 MT.

- Details of reclamation:** Not applicable, as it is an underground mine. Only 7 Ha on which infrastructure and greenbelt will be developed will be reclaimed. Including this, plantation will be done in total of 77 Ha area (22.98% of total project area). Density of plantation shall be 2500 trees per Ha.

27.3.6: Baseline data:

Period	Oct 2022 to Dec 2022
AAQ parameters at 9 Locations (min and max)	<b>Core zone:</b> $PM_{2.5} = 36 \text{ To } 63 \mu\text{g}/\text{m}^3$ $PM_{10} = 56 \text{ To } 185 \text{ Mg}/\text{m}^3$ $SO_2 = 17 \text{ to } 28 \mu\text{g}/\text{m}^3$ $NO_x = 21 \text{ To } 36 \mu\text{g}/\text{m}^3$

Period	Oct 2022 to Dec 2022
	<p>CO = NA</p> <p><b>Buffer Zone:</b></p> <p>PM<sub>2.5</sub> = 31 To 57 µg/m<sup>3</sup></p> <p>PM<sub>10</sub> = 48 To 83 Mg/m<sup>3</sup></p> <p>SO<sub>2</sub> = 12 to 32 µg/m<sup>3</sup></p> <p>No<sub>x</sub> = 23 To 38 µg/m<sup>3</sup></p> <p>CO = NA</p>
Total GLC Level	<p><b><u>Cumulative:</u></b></p> <p><b>Core zone:</b></p> <p>PM<sub>10</sub> = 186.74 µg/m<sup>3</sup> (Level at core zone).</p> <p>PM<sub>2.5</sub> = 63.31 µg/m<sup>3</sup> (Level at core zone).</p> <p>SO<sub>2</sub> = 28 µg/m<sup>3</sup> (Level at core zone).</p> <p>No<sub>x</sub> = 36.02 µg/m<sup>3</sup> (Level at core zone).</p> <p><b>Buffer Zone:</b></p> <p>PM<sub>10</sub> = 83.1 µg/m<sup>3</sup> (Level at 4.5 km in SW direction).</p> <p>PM<sub>2.5</sub> = 57.03 µg/m<sup>3</sup> (Level at 4.5 km in SW direction).</p> <p>SO<sub>2</sub> = 32 µg/m<sup>3</sup> (Level at 4.5 km in SW direction).</p> <p>No<sub>x</sub> = 38.05 µg/m<sup>3</sup> (Level at 4.5 km in SW direction).</p> <p><b><u>Incremental:</u></b></p> <p><b>Core zone:</b></p> <p>PM<sub>10</sub> = 1.74 µg/m<sup>3</sup> (Level at core zone).</p> <p>PM<sub>2.5</sub> = 0.31 µg/m<sup>3</sup> (Level at core zone).</p> <p>SO<sub>2</sub> = 0 µg/m<sup>3</sup> (Level at core zone).</p> <p>No<sub>x</sub> = 0 µg/m<sup>3</sup> (Level at core zone).</p> <p><b>Buffer Zone:</b></p> <p>PM<sub>10</sub> = 0.1 µg/m<sup>3</sup> (Level at 4.5 km in SW direction).</p> <p>PM<sub>2.5</sub> = 0.03 µg/m<sup>3</sup> (Level at 4.5 km in SW direction).</p> <p>SO<sub>2</sub> = 0 µg/m<sup>3</sup> (Level at 4.5 km in SW direction).</p> <p>No<sub>x</sub> = 0.05 µg/m<sup>3</sup> (Level at 4.5 km in SW direction).</p>
Ground water quality at 4 Locations	<p>pH: 6.12 to 7.82,</p> <p>Total Hardness: 206 to 468 mg/l,</p> <p>Total Dissolved Solids : 602 to 887 mg/l</p> <p>Chlorides: 11.5 to 153.72 mg/l,</p> <p>Fluoride: 0.25 to 0.92 mg/l.</p> <p>Calcium as CA: 48 to 112.1 mg/l</p> <p>Iron: 0.06 to 0.10 mg/l</p> <p>Copper: BDL</p> <p>Manganese: 0.06 to 0.09 mg/l</p> <p>Selenium: BDL</p> <p>Arsenic: BDL</p> <p>Lead: BDL</p> <p>Zinc: 0.04 to 0.12 mg/l</p> <p>Chromium: BDL</p>
Surface water quality at 4 Locations	<p>pH: 6.18 to 7.82;</p> <p>BOD: &lt;2 to 4 mg/l.</p> <p>COD from 8 to 22 mg/l.</p> <p>Total Coliform: Nil</p> <p>Iron: 0.09 to 0.25 mg/l</p> <p>Copper: BDL</p> <p>Manganese: 0.06 to 0.09 mg/l</p> <p>Selenium: &lt;0.02 mg/l</p> <p>Arsenic: BDL</p> <p>Lead: BDL</p> <p>Zinc: 0.02 to 0.12 mg/l</p> <p>Chromium: BDL</p>
Noise levels Leq	<b>Industrial Area:</b>

Period	Oct 2022 to Dec 2022					
(Day and Night)	42.1 to 57.5 for the day time and 39.2.6 to 53.3 for the Night time. <b>Residential Area:</b> 42.6 to 58.6 for the day time and 29.1 to 51.4 for the Night time.					
Traffic assessment study findings	Traffic study has been conducted at coal transportation road of Damini UG Mine which is near to the mine site.100% coal of the Damini UG Mine is being transported through this road only. Existing PCU is 76.97 PCU/hr on the Damni UG Mine coal transportation road and existing level of service (LOS) is:					
	Parameter	Road	V (volume in PCU/ hr)	C (Capacity in PCU/ hr)	Existing V/C Ratio	LoS
	Existing*	02 Lane (Two-Way) of 07 m Width	76.97	1200	0.064	A (Represents a condition of free flow)
	PCU load after proposed project will be 76.97 PCU/hr (Existing) + Nil (Additional) PCU/hr and level of service (LOS) will be :					
	Parameter	Road	V (volume in PCU/ hr)	C (Capacity in PCU/ hr)	Existing V/C Ratio	LoS
Existing*	02 Lane (Two-Way) of 07 m Width	76.97	1200	0.064	A (Represents a condition of free flow)	
*-calculation based on field observation (considering worst case scenario). This is a case of EC revalidation without any expansion in the capacity therefore no additional PCU load will be there on the coal transportation road.  Note: Capacity as per IRC-106-1990 Guide line for capacity for roads. Conclusion: The level of service will ‘A’. It means it represents a condition of free flow. The current coal production is 600-800 te/day.						
Flora and fauna	There are Schedule – I species present in the study area (namely: Monitor Lizard, Sloth Bear and Leopard, etc), A Wild life conservation plan has been prepared by TFRI, Jabalpur. The final plan has also been submitted to the wildlife warden, Bhopal for approval.					
Water Requirement	<b>Sources of water</b> a) Surface water – Nil b) Ground Water – 57 KLD (for potable use in mine through borewell) c) Other (Mine Seepage Water) – 5632 KLD (for dewatering purpose) The mine has obtained No Objection Certificate from CGWA vide NOC no. CGWA/NOC/MIN/REN/1/2025/11572 which is valid till 24.08.2026. The excess mine water pumped out of the mine is released in sarfa nallah after treatment for irrigation purpose of local villagers and for domestic use for Shahdol Town residents.  Ground Water Intersection: Pre-monsoon – 2 m to 13 m Post-monsoon – 1.0 m to 8.2 m  <b>Water Requirement:</b>					

Period	Oct 2022 to Dec 2022		
	S.N.	Purpose	Demand (M <sup>3</sup> /day)
	1.	Industrial Use	260
	1.1	Dust Suppression at Stock Yard and transportation route	200
	1.2	Fire Prevention at stock yard	10
	1.3	Greenbelt Development	50
	2.	Domestic/Portable water	57
	Total		317
	Excess mine water after treatment in being released in sarfa Nala for irrigation and local use.		
	NOC (For surface water): NA		
	NOC (Ground Water): Existing CGWA NOC for ground water extraction has been obtained vide no. CGWA/NOC/MIN/REN/1/2025/11572 dtd 05.05.2025 valid till 24.08.2026.		

**27.3.7: Water Requirement:** PP submitted that the total water required for the said project is 317 KLD (260 KLD for industrial use + 57 KLD for potable use for office). The source of water is ground water and mine seepage water. NoC from CGWA has been obtained by the PP vide no. CGWA/NOC/MIN/REN/1/2025/11572 dtd 05.05.2025 valid till 24.08.2026. PP further submitted that, excess mine water after treatment in being released in to Surpha Nallah for irrigation and use to Shahdol Town residents. There is no water body proposed for diversion.

**27.3.8: Power Requirement and details of diversion of Hi-Tension/ Transmission Line:** A 33KV feeder, length 32 Km has been drawn from MPEB Chachai, and an alternate power source from Hardi Feeder of 33KV of 15 km length. 1 Nos. Transformers of 2 MVA and 1 Nos. station transformer of 50 KVA are presently installed at the main surface substation. Total power requirement of the mine is 2000 KVA. There is no diversion of Hi – tension/ transmission line proposed for the said project.

**27.3.9: Solid and Hazardous Waste:**

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1.	Used oil. (Cat. 5.1)	UG mining and ancillary machinery	2.03 M.T.	Collected and stored in steel barrels and kept in covered shed with pucca platform.	Through e-auction
2.	Wastes containing residues of oil (Cat. 5.2)	UG mining and ancillary machinery	0.2 M.T.	Collected and stored in steel barrels and kept in covered shed with pucca platform.	Agreement made for disposal through MPPCB approved common disposal facility.

**27.3.10: Details of Public Consultation:**

Title	Old public hearing	Public Notice for revalidation

Title	Old public hearing	Public Notice for revalidation
Details of advertisement given	Advertisement given in Dainik Samay and Nav Bharat on 12.09.2001	Advertisement given in Pradesh today, Bhopal on 09.07.2022 (Hindi), Pradesh today, Jabalpur on 09.07.2022 (Hindi), and Samay, Shahdol on 09.07.2022 (Hindi) through RO, MPPCB, Shahdol
Date of public consultation	12.10.2001	09.07.2022
Venue	PWD Rest House, Budhar Dist-Shahdol (MP)	NA
Presiding Officer	SDM, Sohagpur Area, Shahdol, RO, MPPCB, Rewa	NA
Number of Person Attended Hearing	67	NA
Number of representations received in writing from the district and outside of district, please give details:	NIL (No written representation received in writing. All the issues were raised in the public hearing at site.)	No representation received (as confirmed by RO MPPCB Shahdol vide letter no. 5038 dated 16.02.2024)
Major issues raised	Issues raised for supply of drinking water, Air & water pollution, health, employments, blasting and plantation in around the mine area.	NIL

Action plan as per MoEF&CC O.M. dated 30/09/2020 – This is a running mine and PH was held on 12.10.2001. All the issues raised during the public hearing have been implemented and expenditure are covered under mine revenue head.

Action plan as per MoEF&CC O.M. dated 30/09/2020.

S. No.	Physical activity and action plan	Year of implementation (Budget in Lakh)															Total Expenditure (in Rs Lakhs)
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1.	Infrastructure creation for drinking water Supply	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	60
2.	Sanitation	2	2	2	1	1	1	1	0	0	0	0	0	0	0	0	10
3.	Education and skill development	3	3	3	1	1	1	1	1	1	1	1	1	1	1	0	20
4.	Encouraging sports in village	2	1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0	5
5.	Basic Health Infrastructure	1	1	1	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	10
6.	Road Infrastructure	10	10	3	3	3	3	3	3	3	3	2	2	2	0	0	50
7.	Lighting	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	30

S. No.	Physical activity and action plan	Year of implementation (Budget in Lakh)															Total Expenditure (in Rs Lakhs)
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	arrangement																
8.	Electricity	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	10
	<b>Total</b>																<b>195</b>

**27.3.11: EMP Budget:** Existing capital cost of project was Rs. 3932.32 Lakhs as per PR approved on 06.09.2024. As per the original EPP the proposed capital and revenue expenditure was Rs. 195.74 Lakhs and Rs. 6.41 Lakhs respectively, against which total capital expenditure is Rs. 185 Lakhs and revenue expenditure is Rs. 243.82 Lakhs has been spent in pollution control arrangement. The employment generation from the project is approximately 270. The details of cost for environmental measures are as follows.

S. No.	Description of Item	Existing (In Lakh)		Already incurred (In Lakh)		Proposed (Additional)	
		Capital (In Lakh)	Recurring (In Lakh/year)	Capital (In Lakh)	Recurring (In Lakh/year)	Capital (In Lakh)	Recurring (In Lakh/year)
(i)	Air Pollution Control/ Noise Management	195.74	6.41	69	22	25	15
(ii)	Water Pollution Control			22	6	87	7
(iii)	Environmental Monitoring and Management			40	140.82	0	0
(iv)	Green Belt & Plantation Development			54	5	450	0
(v)	Other heads as proposed in EIA/committed during the EAC			0	70	0	10
<b>Total</b>		<b>195.74</b>	<b>6.41</b>	<b>185</b>	<b>243.82</b>	<b>562</b>	<b>32</b>

**27.3.12: Plantation:** Existing green belt/Plantation in the mine premises has been done in approx. 9.0 ha area which is about 2.69 % of the total project area of 335 ha with total sapling of 22500 Trees. Proposed area for plantation is about 68 Ha which is about 20.29% of the total mine area of 335 Ha. Thus, total of 77 Ha area (22.99% of total project area) will be developed as plantation.

The mine management has planted 8,500 plants in an Area of 3.4 Ha land, and 14,000 plants were planted in an area of 5.6 ha with a density of 2,500 plants per Ha around the surface infrastructure and subsidence zone of the mine to minimize pollution load. Local and native species were selected for plantation in consultation with state forest department. Total 1,70,000 nos of saplings will be planted and nurtured in coming years in an area of 68 ha land in depillaring zone and in place of surface infrastructure.

**27.3.13: Rehabilitation and Resettlement (R&R):** The mine management has spent Rs. 42.01 Crs as land compensation to the land looser against 261.732 Ha land, additionally 270 employment opportunities are generated by the project out of which 140 PAPs have already been given jobs against land compensation. Process of providing jobs to the remaining 130

land losers is under process.

**27.3.14: Project Cost:** The total capital cost of the project is Rs. 3932.32 lakhs.

**27.3.15: Details of pending litigation:** PP reported that there is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air (P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. However, total 12 no. of court cases were filed related to employment and land acquisition and land compensation.

**27.3.16: Undertaking and Affidavit:** PP submitted the following Undertaking:

- This is to undertake with respect to Damini Underground Coal Project that there is no construction/ mining done at the site or the construction/mining done at the site or the construction done without any deviation as per the EC obtained (vide J-11015/47/02-IA-II(M) Date 05.10.2004).
- This is to undertake with respect to the Damini Underground Coal Project that there is no litigation pending on the project at NGT or any other court of law.
- Total 12 no. of court cases are pending related to employment and land acquisition and land compensation.
- This is to undertake with respect to Damini Underground Coal Project that the land has been acquired as per the provision of Coal Bearing Areas (Acquisition and Development) Act 1957 vide Gazette notification S. O. no. 2219 dated 18.06.2002 and S.O. no. 1921 dated 27.07.2004 for Mining Rights and Vide Gazette notification S.O. No. 3241 dated 19.10.2012 for Surface Rights.
- This is to undertake with respect to Damini Underground Coal Project that there is no difference in the documents submitted i.e., Form 1, Mining Plan, EIA/EMP report and presentation being made to the EAC.
- This is to undertake with respect to Damini Underground coal project that the project is being submitted for granted of revalidation of EC under the provisions of MoEF&CC S.O. 1530E dated 06.04.2018.
- This is to undertake that the project proponent owns the contents (information and data) of the EIA report pertaining to Damini Underground Coal project. Also, it is declared that the contents of EIA report pertaining to Damini Underground Coal project have not been copied from other EIA – EMP reports

**27.3.17: ADS Reply:** The proposal was initially considered in 40<sup>th</sup> meeting of EAC (Coal Mining Sector) held on 26.10.2018 and the proposal was deferred for want of additional information. The proponent submitted the ADS reply vide letter uploaded on PARIVESH portal. Point-wise reply of ADS is given as below:

S. No.	Desired as per MoM of 40 <sup>th</sup> EAC dated 26/10/2018	Compliance
	Preparation of EIA/EMP report based on one season baseline data along with the details in respect of the following:-	The EIA/EMP report has been prepared based on generic structure specified in Appendix III of EIA notification 2006 and complying Standard TOR for UG mine. The baseline data was collected during October to December 2022 (Post- Monsoon period). The EIA/EMP report has been prepared including all the necessary inputs as sought by EAC/MoEF.
	Public Consultation, including public hearing, shall be conducted through concerned SPCB as	To streamline revalidation cases, MOEF has issued an OM dated 16.02.2021, suggesting PP shall

S. No.	Desired as per MoM of 40 <sup>th</sup> EAC dated 26/10/2018	Compliance				
	per the provisions/ procedure contained in the EIA Notification, 2006 for information of the stakeholders about the present coal mining operations inviting comments and their redressal.	invite the suggestions/ objections as wider part of public consultation instead of Public Hearing as per EIA 2006. An undertaking has been submitted by Project Proponent for complying point no. (3) of the OM no. F-No. 22-4/2020-IA.III dated 16.02.2021. The public notice seeking suggestions/objections was published on 09.07.2022 in the in National edition -Pradesh Today Newspaper, Local edition-Pradesh Today newspaper, and Samay Newspaper. No written comments/ suggestions/ objections were received as communicated by CECB/SPCB vide letter no: 5038 dated 16.02.2024.				
	Valid Mining Plan and the Progressive Mine Closure Plan duly approved by the competent Authority.	The mining plan of the Damini UG Mine for the production capacity of 0.48 MTPA along with the mine closure plan was approved by the CoFD of SECL in its 244 <sup>th</sup> meeting held on 06.09.2024. A copy of the approved mining plan along with Mine closure plan is submitted.				
	Compliance status of the conditions stipulated in the environmental clearance from the concerned Regional Office of the Ministry.	The site inspection for monitoring of EC conditions (0.48 MTPA) was carried out by the Regional Office, MoEF&CC, IRO, Bhopal on 26.11.2024 and issued Certified Compliance report vide letter no: 3- 10/2004 (Env) dated 03.01.2025. A copy of the CCR is submitted.				
	Consent to operate from the State Pollution Control Board for the present mining operations.	Damini UG Mine has obtained Consent to Operate for present mining operations from the MP Pollution Control Board vide consent no. AW-61117, which is valid up to 31.12.2025. A copy of the CTO- renewal letter is submitted.				
	Redressal of issues raised during the last public hearing conducted by the SPCB.	PH was conducted on 12.10.2001 for Damini UG 0.48 MTPA. A copy of the pointwise compliance status of the issues raised during the public hearing is submitted.				
	Coal production realized from the mine from 1993-94 vis-à-vis capacity stipulated in the environment clearance.	Coal production realized from the mine from year of commencement 2007-08 vis-à-vis capacity stipulated in the environment clearance submitted.				
	Need assessment survey for the activities proposed under the CSR and the comprehensive plan to be prepared accordingly for implementation by the project proponent. Also, impact of the CSR activities undertaken at an interval of 5 years to be evaluated and a report to be submitted.	The need-based assessment survey has been conducted for the villages falling in the core zone, i.e. Khandoa, Khairaha, Damini, and Kudritola Village. The report with budgetary provision is submitted. SECL has also conducted impact of CSR Activities undertaken as per CSR policy, copy of the report is submitted.				
	Stage-I/Renewal of forest clearance under the Forest (Conservation) Act, 1980, as the case may be, of the forest land involved in the project.	As per the existing EC issued on dated 05.10.2004, there was no forest land under the EC boundary of 335.00 Ha. However, in 2012, during land notification for obtaining Surface Rights under the CBA Act, some plots/Khasra records were found to be converted into Revenue Forest land. <table><tr><th colspan="2">Status of Forest clearance</th></tr><tr><td>Total Forest land existing in</td><td>Status</td></tr></table>	Status of Forest clearance		Total Forest land existing in	Status
Status of Forest clearance						
Total Forest land existing in	Status					

S. No.	Desired as per MoM of 40 <sup>th</sup> EAC dated 26/10/2018	Compliance	
		EC boundary as per latest land records	
		9.621 Ha. Of Revenue Forest	Applied vide proposal no. FP/MP/MIN/QR/504139/2024. Accepted in PSC on dated 24.12.2024, The proposal has been accepted by PSC-I subsequently recommended by DFO and forwarded to MS for PSC-II
	Details of court cases and the compliance status.	There are no court cases pending against Damini Underground Mine of SECL, Sohagpur Area under any act or rule related to Environment under any court of law or Hon'ble NGT. Total 12 no. of court cases are pending related to employment, land acquisition and land compensation against Damini UG Mine. Undertaking in this regard is submitted.	

#### Reply of Additional Detail Sought (ADS) raised on 11.04.2025

S. No.	Desired Information	Compliance			
1.	The approved mine plan submitted is for 4.73 Sq km of block area, i.e., 473 Ha. However, the EC was granted for 335 Ha only. The application for revalidation is also submitted for 335 Ha area only. PP is required to submitted the updated mine plan in line with the EC granted and the area should be mentioned in hectare only.	The total block area of 473 Ha represents the entire region delineated during coal exploration and identified for its mineral potential. It is important to clarify that the block area encompasses the broader geological boundary and not the area proposed for active mining operations. The mining plan is approved for 335 Ha within this block area for mining and associated activities. The 335 Ha area matches the mine lease proposed under the Environmental Clearance (EC) and has been submitted for revalidation. Thus, there is no discrepancy between the EC-granted area and in the Mining Plan.			
		Land Use	Type of land	As Per existing EC (EMP & EIA) (in Ha)	Land Required for obtaining EC (in Ha)
		For Mining Purpose.	Tenancy Lad	328	254.407
			Govt Land	0	63.972
			Revenue Forest Land	0	9.621
			Sub Total	328	328
For surface infrastructure	Tenancy Land	7	7		

S. No.	Desired Information	Compliance															
			Total	335	335												
2.	<p>As per the MoM of 40th EAC Meeting, the project involves forest land of 9.621 ha, on which Stage – I forest clearance is yet to be accorded. The said forestland was not included while granting the EC dated 05.10.2004. PP is required to submit the status of this forest clearance as on date and whether the underground mining has been already done in the said forestland or not.</p> <p>PP is also required to submit the notification through which it came to know about the existence of forestland involved in the project area. PP may also clarify as to why the application for forest clearance and amendment in EC was not submitted to the ministry when the forestland was recognized in the project area of 335 Ha.</p>	<p>At the time of obtaining Mining Rights under the CBA Act, 1957 through Gazette Notifications S.O. 2219 dated 18.06.2002 and S.O. 1921 dated 27.07.2004, no forest land was identified within the proposed Environmental Clearance (EC) boundary of 335 Ha. Consequently, the EC was granted for 335 Ha with no forest land involved, vide MoEF letter No J-11015/47/2002-IA-II(M) dated 05.10.2004.</p> <p>During land notification for Surface Rights under the CBA Act (Gazette Notification S.O. 3241 dated 19.10.2012), certain plot/Khasra numbers within the EC boundary were classified as Revenue Forest land, totaling 9.621 Ha across 09 small patches within the Damini UG Mine lease area.</p> <p>In compliance with the FC Act, 1980, a diversion proposal has been submitted via the Parivesh Portal vide Single Window No.: SW/215054/2024 and Proposal No.: FP/MP/MIN/QRY/504139/2024.</p> <p>The proposal was accepted in principle by PSC-I on 24.12.2024, and the DFO’s site inspection report is submitted to MS for recommendation in PSC-II.</p> <p>No Mining activity has been done within this 9.621 Ha of forest land the same is also observed in the DFO inspection report as “No violation of Forest Conservation Act, 1980 was observed in the subject project and No illegal activity has been carried out by the user agency on the forest land.”</p> <p>Information about the reclassification of tenancy land into govt. land/forest land was submitted along with EC revalidation application to the ministry on dated 06.09.2018 and however no EC amendment request has been submitted to the ministry.</p>															
3.	<p>Kindly submit the status of Schedule – I species observed in the study area and Wildlife Conservation Plan for the said project.</p>	<p>A comprehensive Wildlife Conservation Plan has been prepared by TFRI, Jabalpur for Damini, Rajendra &amp; Khairaha UG Mines, covering the core and 10 km buffer zone. The following Schedule-I species were identified based on field survey and secondary records:</p> <ul style="list-style-type: none"><li>o Sloth Bear (<i>Melursus ursinus</i>) – indirect evidence (scats, droppings)</li><li>o Monitor Lizard (<i>Varanus bengalensis</i>) – direct sighting</li><li>o Leopard (<i>Panthera pardus fusca</i>) – reported from adjoining forest (Amraha RF)</li></ul> <p>Species-specific habitat improvement and monitoring prescriptions have been included in the plan. The Wildlife Conservation Plan with budgetary provision of Rs. 293 Lakhs has been submitted to the Chief Wildlife Warden, Madhya Pradesh, vide letter no. 288 dated 22.09.2023, and is currently under review with the Divisional Forest Officer (DFO), South Shahdol Division.</p>															
4.	<p>Kindly submit the details of water requirement for the said project and the latest status of the CGWA application renewal.</p>	<p>The water requirement of the Damini Underground (UG) Mine of SECL Sohagpur Area is as follows:</p> <table><tr><th>S. No.</th><th>Purpose</th><th>Demand (M<sup>3</sup>/day)</th></tr><tr><td>1</td><td>Industrial Use</td><td>260</td></tr><tr><td>1.1</td><td>Dust suppression at stock yard and transport route</td><td>200</td></tr><tr><td>1.2</td><td>Fire prevention at stock vard</td><td>10</td></tr></table>				S. No.	Purpose	Demand (M <sup>3</sup> /day)	1	Industrial Use	260	1.1	Dust suppression at stock yard and transport route	200	1.2	Fire prevention at stock vard	10
S. No.	Purpose	Demand (M <sup>3</sup> /day)															
1	Industrial Use	260															
1.1	Dust suppression at stock yard and transport route	200															
1.2	Fire prevention at stock vard	10															

S. No.	Desired Information	Compliance		
		1.3	Greenbelt development	50
		2	Domestic/ Portable Water	57
		<b>Total</b>		<b>317</b>
		The mine has been granted with No Objection Certificate (NOC) from the Central Ground Water Authority (CGWA) for the extraction of mine water, specifically for dewatering purposes, vide NOC Number: CGWA/NOC/MIN/REN/1/2025/11572 which is valid till: 24.08.2026.		
5.	It is observed that in the certified compliance report obtained vide letter dated 03.01.2025, the status of mostly conditions is either "being complied" or "compliance under progress". Kindly submit the Action Taken Report to the concerned RO, MoEF&CC for the CCR and obtain the closure report on such ATR. The same shall be submitted to the Ministry.	The Action Taken Report (ATR) in response to the Certified Compliance Report (CCR) issued by the IRO, Bhopal, vide letter dated 03.01.2025, has been submitted to the Regional Office of the Ministry at Bhopal on two occasions, vide letter no. 6851 dated 28.01.2025 and vide letter no.302 dated 14.05.2025, with a request to issue a closure report. The closure report from the concerned Regional Office is currently awaited.  As per the Certified Compliance Report, out of 15 specific conditions, 2 conditions are reported as "partly complied", 1 condition as "to be complied", and 2 conditions as "compliance under progress". All remaining 10 specific conditions, along with all 16 general conditions of the EC, have been reported as complied with.		
6.	Kindly submit the same method of transportation being followed for the said mine from in-pit to surface, surface to siding, siding to loading and then to the final consumer. In case, road transportation is being done, then PP shall submit a transportation assessment study report for the said mine, which shall include: a) Details of existing road transportation route (this shall include the type of road, length of the road, nearest habitation on the road).  b) Detailed traffic study report of the road route through which transportation of coal is being done.  c) It is requested to submit the AAQM details of the road through which transportation of coal is being done (of both day and night time) for.  d) It is requested to submit the noise quality monitoring details of the road through which transportation of coal is being done (of both day and night time) for.	A comprehensive transportation assessment study and its Environment Management plan has been prepared for the Damini UG Coal Mine including all the desired details.		

S. No.	Desired Information	Compliance
	e) Environmental Management Plan including monitoring program to address all concerns arising out of coal transportation by road.	
7.	Kindly submit the details of sensitive receptors on the coal transportation road, along with the mitigation measures being followed and further proposed to be followed.	<p>Details of sensitive receptors are submitted.</p> <p>Mitigation Measures:</p> <ol style="list-style-type: none"> <li>1. Two mechanical road sweeping machine have been deployed by the SECL management for cleaning the dust from the coal transportation road.</li> <li>2. One truck mounted mist type fog forming machine is deployed exclusively for Damini UG mine for water sprinkling on the coal transportation road within the habitation zone.</li> <li>3. More than 90,000 plants have been planted in the last five year along the coal transportation road from Damini UG Mine to Burhar Railway Siding by the SECL management to suppress the air borne dust and noise pollution.</li> <li>4. Coal transportation from Mine to Siding and mine to consumers is being done through trucks/dumper covered with 400 GSM tarpaulin.</li> <li>5. Installation of speed limit warnings to avoid accidents, air and noise pollution.</li> <li>6. Two continuous ambient air quality monitoring stations are being installed along the transportation route and at Damini UG Mine to monitoring the air pollution level 24X7</li> </ol>
8.	Kindly submit the drone video and the geo-tagged photographs of the coal transportation route.	Drone video footage and geo-tagged photographs covering the entire coal transportation route has been prepared.
9.	Presentation to be presented is requested to be submitted.	The presentation to be presented is submitted.
10.	Public notice for public consultation was published on 09.07.2022 and communication in this regard was received from the SPCB vide letter dated 16.02.2024. Kindly clarify the reasons for timelines gap between the date of publication and receipt of letter from SPCB.	The public consultation notice for Damini UG Mine was published on 09.07.2022, after which the mine management requested to the regional officer several times to provide the queries/comments of locals received in the RO Office through verbal and telephonic and official communication vide letter dated 13.11.2023 and 25.01.2024. The official letter from the Regional Office was received on 16.02.2024.

**27.3.18: Written Submission:** PP submitted the following information during the meeting:

S. No.	Observations	Response of PP				
1	Post mining land use details	S. No.	Type	Total Area (Ha)	Reclaimed Area (Ha)	Undisturbed area (Ha)
		1	Mine take (UG working)	315.778	-	315.778*
		2	Roads	8.222	-	8.222
		3	Build up Area/	4	-	4

S. No.	Observations	Response of PP				
			Settlement			
		4	Surface Infrastructure + Safety Belt (greenbelt)	7	7	-
		Total		335	7	328
		*UG mine having minimum surface disturbance, this land will be gainfully utilized for plantation, solar panel installation, agriculture, and other purposes. Existing plantation on 5.6 ha of undisturbed area, 3.4 ha of plantation as green belt in mine surface infrastructure area. 68 Ha of undisturbed land has been proposed for plantation.				
2	Pending court case details	Details of Court cases- Damini Underground coal mine				
		S. No.	Court case reference no.	Details of Court	Brief details of court case	Present Status
		1	A-6A/2021	Court of SDM Sohagpur	Dispute over family Ownership in acquired land	Under process
		2	RCSA/23/2023	Civil Court Burhar Class-2	Dispute over family Ownership in acquired land	Under process
		3	RCSA/74/2021	Civil Court Burhar Class-2	Dispute over family Ownership in acquired land	Under process
		4	RCSA/84/2023	Civil Court Burhar Class-2	Dispute over family Ownership in acquired land	Under process
		5	RCSA/60/2019	Civil Court Burhar Class-2	Dispute over family Ownership in acquired land	Under process
		6	RCSA/25/2024	Civil Court Burhar Class-2	Dispute over family Ownership in acquired land	Under process
		7	RCSA/56/2022	Civil Court Burhar Class-2	Dispute over family Ownership in acquired land	Under process
		8	A-6A/2023-24	Civil Court Burhar Class-2	Dispute over family Ownership in acquired land	Under process

**Observation and deliberation of the EAC:**

**27.3.19: The Committee noted the following:**

- The instant proposal is for revalidation of EC accorded by M/s South Eastern Coalfields Ltd for Damini Underground Coal Mine vide letter no. J-11015/47/2002-IA-II(M) on 05.10.2004 for production capacity of 0.48 MTPA in the ML area of 335 Ha, under the EIA Notification, 1994. The revalidation of EC granted is under EIA Notification 2006 (as amended) as per the provision of S.O 1530(E) dated 06.04.2018 read with OM dated 16.02.2021.
- PP applied for revalidation of EC in PARIVESH Portal on 06.09.2018, i.e., well within the window period of 6 months (i.e. before 05.10.2018) and also submitted Form-1 as required under S.O 1530(E) dated 06.04.2018 for the re-validation of EC under EIA Notification 2006 (as amended).

- iii. The project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018.
- iv. CTO renewal has been obtained from MPPCB and is valid upto 31.12.2025.
- v. Committee observed that the coal block of 473 Ha was acquired by the PP under the CBA Act, 1957 vide S.O. 2219 dated 18.06.2002. The rights are vested with the coal producing company perpetually. However, the mining activity is restricted to 335 Ha only. Committee deliberated on the status of mining in the remaining 138 Ha of block area and observed that no mining activity has been carried out by the PP in the remaining 138 Ha of block area. Committee also observed that, the said land is coal bearing area and will be used for future expansion. Committee opined that the remaining 138 Ha of block area shall be clearly demarcated and no mining related activity shall be carried out in the same till the time a fresh EC for the same is not obtained.
- vi. The project involves 9.261 Ha of forestland and Stage – I forest clearance is yet to be obtained on the same. Committee observed that, at the time of obtaining the said coal block vide letter dated 18.06.2002, there was no forestland within the proposed Environmental Clearance (EC) boundary of 335 Ha. Consequently, the EC was granted for 335 Ha with no forest land involved. During land notification for Surface Rights under the CBA Act (Gazette Notification S.O. 3241 dated 19.10.2012), certain plot/Khasra numbers within the EC boundary were classified as Revenue Forest land, totaling 9.621 Ha across 09 small patches within the Damini UG Mine lease area. In Compliance of the same, the PP submitted an application for obtaining Stage – I forest clearance on the said 9.261 Ha of forestland.
- vii. Committee sought clarification regarding the status of mining activities carried out under 9.261 Ha of forest land. Committee observed that, as per the site – visit report of DFO, “no mining activity has been done within this 9.621 Ha forest land. Further, no violation of Forest Conservation Act, 1980 was observed in the subject project and no illegal activity has been carried out by the user agency on the forest land.”

Committee opined that revalidation of EC cannot be given without obtaining Stage – I forest clearance, for the quantum of forestland involved in the ML area and PP shall first obtain the Stage – I forest clearance on 9.621 Ha of forestland. Committee further opined, the Member Secretary may simultaneously seek comments from the Forest Division, whether revalidation of EC in such cases can be accorded by delinking the forestland as requested by the project proponent.

- viii. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. There is presences of Schedule – I species (namely: Monitor Lizard, Sloth Bear and Leopard, etc), and a wildlife conservation plan has been prepared and submitted to Chief Wild Life Warden, Bhopal. Approval on the same is yet to be obtained.
- ix. Mining plan along with mine closure plan approved in the 244th Meeting of CoFD, SECL held on 06.09.2024 for the ML area of 335 Ha, for the production capacity of 0.48 MTPA.

- x. Method of Mining to be adopted shall be Underground mining, with bord and pillar method of mining.
- xi. Net geological reserve reported in the mine lease area is 27.769 MT with 12.35 MT mineable reserves. The percentage of extraction is 44.47%. Out of total mineable reserve of 12.35 MT, 6.553 MT coal is available for extraction as on 01.04.2025.
- xii. Life of mine is 15 years (as on 31.03.2024) and grade of coal is G-6 & G-7.
- xiii. Committee observed some discrepancy in the post – mining land use pattern. PP rectified the same and submitted.
- xiv. Committee deliberated on the method of transportation of coal and observed that, the entire coal is being evacuated by road. Since the production capacity of the said mine is less, not much load is there on the road, due to transportation of coal. However, Committee opined that PP shall take all precautionary measures to mitigate air pollution due to coal transportation. Adequate plantation shall be done on both the side on the roads through which coal is being transported.
- xv. Committee deliberated on the baseline data submitted by the PP and observed that, all the parameters are within the prescribed limits. However, Committee opined that PP shall continue with the environment protection measures, and further focus on sustainability mining activities. PP shall introduce measures of solar lights, plantation drives, etc. Committee also observed that, there are 2 nos of CAAQMS installed in the said mines, one in the ML area and another in the colony of the mines.
- xvi. Committee deliberated on the water requirement of the said project and observed that, the total water required for the said project is 317 KLD (260 KLD for industrial use + 57 KLD for potable use for office). The source of water is ground water and mine seepage water. NoC from CGWA has been obtained by the PP vide no. CGWA/NOC/MIN/REN/1/2025/11572 dated 05.05.2025 valid till 24.08.2026. The excess mine water after treatment is being released into Surpha Nallah for irrigation and use to Shahdol Town residents. Being an underground mine, there is no diversion of any waterbody previously done in the said project and none is proposed in future.
- xvii. Committee observed that, advertisement for public consultation through written submissions was given in accordance to Ministry's OM dated 16.02.2021, in Pradesh Today, Bhopal on 09.07.2022 (Hindi), Pradesh Today, Jabalpur on 09.07.2022 (Hindi), and Samay, Shahdol on 09.07.2022 (Hindi) through RO, MPPCB, Shahdol. As per the MPPCB, Shahdol letter dated 16.02.2024, no written comments/ suggestions/ objections were received from the public.
- xviii. Committee further deliberated on the action plan for next 15 years of old public hearing that took place on 12.10.2001 and observed that, the PP has allocated a budget of Rs. 195 Lakhs. Committee opined that, PP shall implement the same in a time bound manner and along with this, the PP shall also strengthen the primary health centres and community health centres in the study area.
- xix. In pursuant to OM dated 16.02.2021, PP also submitted that there has been no change in mining namely mining method, mining plan, mineral transportation, water requirement,

reclamation plan after obtaining EC for production capacity of 0.48 MTPA.

- xx. Committee further observed that, existing capital cost of the project is Rs. 3932.32 Lakhs. As per the original EPP the proposed capital and revenue expenditure was Rs. 195.74 Lakhs and Rs. 6.41 Lakhs respectively, against which total capital expenditure is Rs. 185 Lakhs and revenue expenditure is Rs. 243.82 Lakhs has been spent in pollution control arrangement. The additional capital cost proposed for environmental measures is Rs. 562 lakhs and recurring cost is Rs. 32 Lakhs per year. Committee opined that the same shall be efficiently implemented in a time – bound manner.
- xxi. Committee deliberated on the plantation activities already carried out by the PP in the ML area and observed that, existing greenbelt / plantation in the mine premises has been done in approx. 9.0 ha area which is about 2.69 % of the total project area of 335 ha with total sapling of 22500 Trees. Proposed area for plantation is about 68 Ha which is about 20.29% of the total mine area of 335Ha. Thus, total of 77 Ha area (22.99% of total project area) will be developed as plantation.
- xxii. Committee opined that there is a lot of space available with the PP for plantation and there is good scope of plantation. Committee opined that PP shall focus on agro forestry, community plantation on the land purchased for surface rights.
- xxiii. Committee observed that, Rs. 42.01 Crs as land compensation has already been given to the land users against 261.732 Ha land. Additionally, 140 PAPs have already been given jobs against land compensation and remaining 130 land losers will be given the employment in due course.
- xxiv. Committee deliberated on the Certified Compliance Report and observed that, the status of compliance of earlier EC was obtained from Regional Office, Bhopal vide letter no. 3 -10/2004(Env) Dated: 03.01.2025 in the name of Damini Underground Coal Mine. The action taken report regarding the being complied / partially complied / non – complied conditions has been submitted to Regional Officer, MoEFCC, Bhopal on two occasions, vide letter no 6851 dated 28.01.2025 and letter no. 302 dated 14.05.2025. Committee opined that PP shall comply with the following partly complied conditions in a time bound manner:

S. No.	Condition	Proposed Compliance	Timeline
1.	Specific condition no. viii	Atleast 10 rainwater harvesting structures shall be constructed at different locations of the Area, with consultation with Central Ground Water Authority through its public notice and instructions.	By December 2025
2.	Specific condition no. xiii	The Integrated Wildlife Conservation Plan shall be got approved and money shall be deposited with the concerned authority as per the demand note for the implementation of the conservation plan.	By December 2025

- xxv. There are no court cases related to environment pending against the instant project.
- xxvi. Committee opined that the PP shall align its activities with the sustainable development

goals.

- xxvii. The EAC also deliberated on the ADS reply and written submissions of the project proponent and found it satisfactory.
- xxviii. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

**Recommendations of the Committee:**

**27.3.20:** In view of the foregoing and after detailed deliberations, the committee *deferred* the instant proposal for grant of revalidation of EC and sought for Stage – I forest clearance for the 9.621 Ha of forestland involved in the ML area. The committee also recommended that Ministry shall seek views/comments of Forest Conservation Division whether revalidation of EC in such cases can be accorded by the Ministry by delinking the forestland as requested by the project proponent.

**Agenda Item No. 27.4:**

**27.4:** Rajgamar Underground Coal Mine (having production capacity of 0.45 MTPA) by M/s **South Eastern Coalfields Limited** located at village: Rajgamar; Tehsil: Korba; District: Korba; State: Chhattisgarh – **Revalidation of Environment Clearance based on ADS Reply with reduction in ML area from 3486.577 Ha to 1890.93 Ha – reg.**

**[Online Proposal No. IA/CG/CMIN/7579/2005; Consultant: CMPDIL -NABET/EIA/22-25/SA 0223 valid up to 07.07.2025]**

**27.4.1:** M/s South Eastern Coalfields Limited has made an online application vide proposal no. IA/CG/CMIN/7579/2005 dated 04.09.2018 along with copy of EIA/EMP report, Form (CAF and Form – I), Certified compliance report (as part of ADS reply) and sought for revalidation of Environment Clearance (EC) accorded to Rajgamar Underground Coal Mine vide letter no. J-11015/165/2005-IA.II(M) dated 18.05.2006 for production capacity of 0.45 MTPA under the EIA Notification, 1994. The instant proposal is for obtaining re-validation of EC under EIA Notification, 2006, in compliance of the Gazette Notification S.O. No. 1530(E) dated 06/04/2018, for existing project with reduction in ML area from 3486.577 Ha to 1890.93 Ha. The proposal was initially considered in 40<sup>th</sup> meeting of EAC (Coal Mining Sector) held on 26.10.2018. Proposal was deferred for want of additional information. Proponent submitted the additional information on 28.03.2024 and 24.05.2025 on Parivesh 1.0 portal. Now, the project is now again placed before the EAC for consideration on 18.06.2025.

**Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:**

**27.4.2: Previous Approvals in chronological orders:**

S. No.	Details of Letter No.	EC/Expansion EC/Amendment in EC/Validity extension/Transfer of EC	Capacity	Area
1	J-11015/165/2005-IA-II(M) Date 18.05.2006	Fresh EC under EIA Notification, 1994	0.45 MTPA	3486.577 Ha

W.r.t. the previous approvals, PP submitted the actual production details from the date of obtaining EC for production capacity 0.45 MTY. CTO renewal has been obtained from CECB and is valid upto 30.04.2026. Details of the same are as follows:

Year	EC sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity
1974-75	0.312	0.00017003	Nil
1975-76	0.312	0.00287249	Nil
1976-77	0.312	0.022513	Nil
1977-78	0.312	0.0573	Nil
1978-79	0.312	0.128139	Nil
1979-80	0.312	0.17576	Nil
1980-81	0.312	0.153203	Nil
1981-82	0.312	0.158696	Nil
1982-83	0.312	0.17403	Nil
1983-84	0.312	0.176758	Nil
1984-85	0.312	0.252729	Nil
1985-86	0.312	0.291983	Nil
1986-87	0.312	0.261865	Nil
1987-88	0.312	0.244332	Nil
1988-89	0.312	0.272208	Nil
1989-90	0.312	0.327002	0.015002
1990-91	0.312	0.303200	Nil
1991-92	0.312	0.286400	Nil
1992-93	0.312	0.314100	0.0021
1993-94	0.312	0.375000	0.063
1994-95	0.312	0.352000	0.04
1995-96	0.312	0.265870	Nil
1996-97	0.312	0.292950	Nil
1997-98	0.312	0.351300	0.0393
1998-99	0.312	0.329670	0.01767
1999-2000	0.312	0.336160	0.02416
2000-01	0.312	0.323300	0.0113
2001-02	0.312	0.324200	0.0122
2002-03	0.312	0.275085	Nil
2003-04	0.312	0.298605	Nil
2004-05	0.312	0.314555	Nil
2005-06	0.312	0.325345	0.013345
2006-07	EC issued for 0.45 MTPA	0.333750	Nil
2007-08	0.45	0.333750	Nil
2008-09	0.45	0.384967	Nil
2009-10	0.45	0.370100	Nil
2010-11	0.45	0.368670	Nil
2011-12	0.45	0.211580	Nil
2012-13	0.45	0.107400	Nil
2013-14	0.45	0.190800	Nil
2014-15	0.45	0.114001	Nil
2015-16	0.45	0.109340	Nil

Year	EC sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity
2016-17	0.45	0.074925	Nil
2017-18	0.45	0.088360	Nil
2018-19	0.45	0.115255	Nil
2019-20	0.45	0.131050	Nil
2020-21	0.45	0.071505	Nil
2021-22	0.45	0.045620	Nil
2022-23	0.45	0.033425	Nil
2023-24	0.45	0.008250	Nil
2024-25	0.45	Nil	Nil

There is no excess production since EC issued for capacity 0.45 MTPA on 18.05.2006 before than mine was running on CTO.

The mine operations have been suspended since January 2024 and no production has been done in the said mine since then.

**27.4.3: Certified Compliance Report:** The Status of compliance of earlier EC was obtained from Regional Office, Naya Raipur vide letter no. 3 -24/2006(Env) Dated: 19.06.2023 in the name of Rajgamar Underground Coal Mine. And the same was submitted to MoEF&CC vide PARIVESH portal on 28.03.2024, i.e., well within the time frame of 1 year. The action taken report regarding the being complied / partially complied / non – complied conditions has been submitted to Regional Officer, MoEFCC, Naya Raipur vide letter no 451 dated 28.01.2025 and dated 30.04.2025. The details of the observations made by RO in the CCR report with ATR/compliance status as furnished by the PP is given as below:

S. No.	EC Condition	Compliance status as submitted by PP	Remarks/ Recommendations of RO, MoEF&CC	ATR/ Status of compliance
Specific condition no. (ii)	Sufficient coal pillars shall be left un-extracted around the air shaft (within the subsidence influence area) to protect any damage from subsidence, if any.	Sufficient coal pillars have been left un-extracted around the air shaft area to protect from any damage from subsidence etc.	The proponent has left un-extracted sufficient coal pillars around the air shaft to protect against any damage from subsidence. <b>During inspection, the proponent has been requested to furnish details of coal pillars in the mine area to this office.</b>	Sufficient coal pillars have been left un-extracted around the V-shaft to protect any damage from subsidence. The north-west side of V-shaft is virgin consists of coal barrier: size 60M x 40 M. solid coal pillars of size 25 Mx 25 M have been left below the roads as per safety guideline issued by the DGMS time to time.
Specific condition no. iii	Solid barriers shall be left below the roads falling within the blocks to	As per the DGMS regulations, coal pillars of 45 m width have been left to support the road over the surface.	The proponent has left solid barriers below the roads falling within the blocks to avoid damage to the	The solid pillar size is 25Mx25M and 22Mx22M falling below village, water bodies, road. Additional support with steel cogs of the suitable type of support has been placed as per safety

S. No.	EC Condition	Compliance status as submitted by PP	Remarks/ Recommendations of RO, MoEF&CC	ATR/ Status of compliance
	avoid any damage to the roads.		roads. The proponent has informed that the mining has been carried out in line with the safety guidelines issued by the DGMS. <b>During inspection, the proponent has been requested to furnish details of solid barriers in the mine area to this office.</b>	guidelines issued by DGMS time to time.
Specific condition no. (v)	Depression due to subsidence resulting in water accumulating within the low-lying areas shall be filled up or drained out by cutting drains.	3-D numerical modelling of the mine has been carried out by CMRI, Dhanbad and regular subsidence monitoring has also been carried to identify and quantify subsidence. It has been informed that no major subsidence took place so far. No water accumulation within low lying areas has been observed. Pumps with adequate pumping capacity have been provided to pump out mine water during peak rainfall.	The proponent informed that 3-D numerical modelling of the mine has been carried out by CMRI, Dhanbad and regular subsidence monitoring has also been carried to identify and quantify subsidence. It has been informed that no major subsidence took place so far. No water accumulation within low lying areas has been observed. Pumps with adequate pumping capacity have been provided to pump out mine water during peak rainfall. Further	3-D numerical modelling of the mine has been carried out by CMRI, Dhanbad and routine subsidence monitoring is being done by the project to identify and quantify subsidence. No major subsidence has taken place so far due to depillaring operation. There is no water accumulation within low lying areas. The maximum subsidence estimated to occur above the extraction panels of Rajgamar 6&7 incline is 994 mm with a maximum tensile strain of 18.3 mm/m, which is well below the limit. A maximum subsidence of 858 mm has been predicted above the extraction panels in Rajgamar 4&5 Incline. The maximum tensile strain expected to occur is 19.4 mm/m.

S. No.	EC Condition	Compliance status as submitted by PP	Remarks/ Recommendations of RO, MoEF&CC	ATR/ Status of compliance
			it has been informed that if depression or cracks occur due to subsidence the area will be filled up by dozing with earth as recommended in the report of CMRI.	
Specific condition no. (xv)	The company shall obtain approval of CGWA/CGWB Regional Office for use of groundwater if any, for mining operations	The mine has obtained NOC from CGWA vide letter no. CGWA/NOC/MIN/ORIG/2020 /8581 dtd 0.4.09.2020 valid till 03.09.2022.	The proponent informed that in-principle approval has been received from CGWA. E-mail copy of in-principle approval received from CGWA has been furnished to this office. Therefore the proponent has been requested to <b>furnish copy of NOC to this office.</b>	NOC from CGWA has been obtained for 19542 cum/day dewatering CGWA/NOC/MIN/ORIG/2020 /8581 dtd 0.4.09.2020 valid till 03.09.2022. Application for renewal of GW NOC was submitted to the CGWA for which Internal EAC meeting has been held on 11.02.2025. GW abstraction charges paid upto 03.09.2026 on 16.05.2025 as per the demand note received from CGWA.
Specific condition no. (xvi)	Sewage treatment plant should be installed in the existing colony. ETP should also be provided for workshop and CHP wastewater.	Residential quarters in the project colonies are provided with concrete drainage and septic tank-soak pit arrangement for safe disposal of domestic sewage. Proposal for construction of 2 nos. of STPs of 600 kld and 200 kld are under process. There is no coal beneficiation plant or washery provided in the project which would generate any effluent. No effluent stream is generated except mine water for which settling tank and water treatment plant have been provided.	The proponent informed that no effluent has been generated from the mine workshop. Settling tank and filter plant have been provided for removal of suspended coal/silt particles in mine water discharge. Septic tank and soak pit arrangements have been provided in the project quarters for disposal of	The PP is committed to comply with the condition. Work has been awarded for construction and operation of 600 KLD STP based on SBR technology and the construction work has started in March 2024 and completed by March 2025.

S. No.	EC Condition	Compliance status as submitted by PP	Remarks/ Recommendations of RO, MoEF&CC	ATR/ Status of compliance			
			domestic sewage. The proponent further informed that the construction of 600 KLD capacity and 200KLD capacity STP has been observed under construction.				
General condition no. (vii)	Industrial wastewater (workshop and wastewater from the mine) should be properly collected, treated so as to conform to the standards proscribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge oil and grease trap should be installed before discharge of workshop effluents.	Residential quarters in the project colonies are provided with concrete drainage and septic tank-soak pit arrangement for safe disposal of domestic sewage. Proposal for construction of 2 nos. of STPs of 600 KLD and 200 KLD are under process. There is no coal beneficiation plant or washery provided in the project which would generate any effluent. No effluent stream is generated except mine water for which settling tank and water treatment plant have been provided.	The proponent has been pumping out the mine water to pass through first settling tank and then filter plant for removal of suspended and dissolved solids. The filtered mine water has been utilized in domestic water supply. Mine water has also been utilized in dust suppression. Surplus clear mine water has been supplied to the nearby village ponds. Mine water quality has been regularly monitored. Effluent quality monitoring reports have been perused and seemed within the permitted limits. <i>The proponent informed that unlike in an opencast mine there has been</i>	Oil and grease is collected through used oil filters. The same is properly collected in drums, stored at a designated place and later auctioned off to the authorized used oil recyclers. Stored oil drums are placed on concrete floor and oil & grease trap is under establishment at the workshop for catching excess oil & grease in case of any spillage.			
				Type of Waste	Quantity	Mode of Treatment	Disposal
				Used/spent oil (category 5.1 Hazardous Waste)	5.5 kl/year permitted quantity (generated quantity: 0.118 kl in FY 2023-24)	Disposed off through authorized recyclers	Disposed off through authorized recyclers
				Waste/residue containing oil (category 5.2 Hazardous Waste)	0.5 tonnes/year permitted quantity (generated quantity: 0.015 tonne in FY 2023-24)	To be disposed off through authorized TSDF	To be disposed off through authorized TSDF

S. No.	EC Condition	Compliance status as submitted by PP	Remarks/ Recommendations of RO, MoEF&CC	ATR/ Status of compliance
			<i>no washing or other such process involved in the E&amp;M workshop which generates effluent mixed with oil and grease and therefore, oil and grease trap has not been installed.</i>	
General condition no. (ix)	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.	Environmental quality monitoring is carried out by CMPDIL RI-V and NETEL India Ltd. through their NABL accredited labs equipped with adequate number and type of pollution monitoring and analysis equipment.	The proponent informed that the environmental quality monitoring has been carried out by NABL accredited CMPDIL (proponent's special laboratory) and NETEL India Ltd. <b>During inspection when enquired about the establishment of environmental laboratory the proponent has agreed to comply the imposed condition.</b>	Routine environmental quality monitoring is carried out by CMPDIL RI-V through their NABL accredited labs equipped with adequate number and type of pollution monitoring and analysis equipment. In addition to this, environmental lab has established at GM Office building for enabling spot analysis of samples.

#### 27.4.4: Environmental Site Settings:

The project area is covered under Survey of India Toposheet No. 64J/15 and is bounded by the geographical coordinates ranging from 22° 21'40" to 22° 26'39" N latitudes and 82°48' 34" to 82°51'38" E longitudes.

Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018.

**Mining Lease:** PP submitted that said coal block of 3486.577 Ha was acquired under the CBA Act, 1957 vide S.O. 1<sup>st</sup> phase: No. 2989 dtd.07.10.1963 2<sup>nd</sup> phase: No.1603 dtd.19.04.1982 3<sup>rd</sup> phase: No. 30 dtd.17.12.1985 4<sup>th</sup> phase: No. 1557 dtd.04.07.1994

The rights are vested with the coal producing company perpetually. However, the mining activity is restricted to 1890.93 Ha only. The remaining 1595.647 Ha land area is forestland, which is a coal bearing area and will be utilized for future mining or allied activities. PP submitted an affidavit stating that, 1595.647 Ha forestland is undisturbed and no mining activity has been done on the same.

**Forest Area:** The project involves 903.46 ha forestland, the details of the proposal applied for is as follows:

S. No.	Forest Area (Ha)	Status of FC	FC letter no.	Remarks
1	20.0	Stage-II	6-CHC007/2006-HBO/1527 dated 29.11.2023	-
2	2.32	Stage-II	8C/6/423/1997-FCW/752 dated 20.03.2003	-
3	461.8	Stage-I (Stage-II awaited from the MoEF&CC)	8-103/2005-FC dtd. 14.03.2006	Stage-1 obtained on 14.03.2006 and development activities continued below the forest land as per the guideline of Supreme court dated 16.12.2005 till Jan 2024. No depillaring operation has been carried out below the forest land.
4	419.34	Stage-I (Stage-II awaited from the MoEF&CC)	8-103/2005-FC (Vol-1) dtd. 13.07.2011	Stage-1 obtained on 13.07.2011. Mining was discontinued since 1 Feb. 2014. No depillaring operation has been carried out below the forest land.
<b>Total</b>	<b>903.46 Ha</b>			

PP further submitted that 22.32 ha forestland is broken up (on which Stage – II forest clearance has been obtained) and the project does not involve the violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

**Protected Area:** The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ tiger corridor/elephant corridor etc. Lemru Elephant Reserve is located at 2.2 km from the project area (Lemru Elephant Reserve notified by CG State in Oct 2021). There is presences of Schedule – I species (namely: *Golden Jackal, Asian elephant, Striped hyaena, Sloth Bear, Indian Grey Mongoose, Indian Fox, Spectacled cobra, Rat snake*). Revised wildlife conservation plan has been prepared by TFRI Jabalpur in 2019, which has been approved by the PCCF (Wildlife), C.G. State vide order no. 134 dtd.20.03.2021. Conservation fund of Rs. 19.0 Crore has been deposited in CAMPA.

#### Other Sensitive Receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	Village	Distance	Direction
i. Habitation	Gorma	0.1 km	East
	Rajgamar Town	Within mine boundary	-

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
ii. School	<b>Schools</b>	<b>Distance</b>	<b>Direction</b>
	Beacon School Rajgamar	Within mine boundary	
	Govt Middle school Rajgamar	Within mine boundary	
	Govt Primary school, Rajgamar basti	Within mine boundary	
	Govt Higher secondary school, Rajgamar	Within mine boundary	
	Govt Middle school, Godma	0.60 km	East
	Govt Primary school, Kesla	0.10 km	West
iii. River/ Waterbody	<b>River/Nallah</b>	<b>Distance</b>	<b>Direction</b>
	Bajnai nala	Passes through mine	East
	Ghincha nala	Passes through mine	West
	Dhengur nala	Passes through mine	North
iv. Forest	<b>Reserved/Protected forests</b>	<b>Distance</b>	<b>Direction</b>
	Protected Forest	Within ML area	
	Protected Forest	0.5 KM	South
v. Archaeological Survey of India (ASI) protected site	No		
vi. Any other	Health care is available at Rajgamar and Government hospital and many hospitals in Korba township.		

No diversion is proposed for the said project.

**27.4.5: Method of Mining and Mining Plan:** Mining plan along with mine closure plan approved by the SECL Board vide no. SECL/BSP/CAD/277th CoFD EXT/24-25/2024 dated 05.03.2025 for the 1890.93 ha of land area for 0.45 MTPA.

9. Method of Mining to be adopted shall be Underground mining using bord and pillar method.
10. There is no coal washery proposed in the project.
11. Net geological reserve reported in the mine lease area is 39.674 MT with 12.475 MT mineable reserves. Out of total mineable reserve of 12.475 MT, 6.009 MT are available for extraction. The percentage of extraction is 48.16 %.
12. There is 1 no. of workable seam with thickness ranging from 1.4 m to 2.95 m. Grade of coal is G-4 & G-5.
13. Life of mine is 14 years as on 01.04.2025.

Details of Land use pattern:

**c. Pre- mining land use:**

S. No.	Land Use	Within ML Area (Ha)	Outside ML Area (Ha)	Total
1.	Agriculture land	981.165	-	981.165
2.	Forest Land	903.46	-	903.46
3.	Waste Land	-	-	-
4.	Grazing Land	6.305	-	6.305
5.	Surface Water bodies	-	-	-
6.	Settlements	-	-	-
7.	Other (specify)	-	-	-
	<b>Total</b>	<b>1890.93</b>	<b>-</b>	<b>1890.93</b>

**d. Post – mining land use pattern:**

S. No.	Particulars	Reclaimed Area (in ha)	Undisturbed (in ha)	Total Area (in ha)
1	Area marked for underground mining	0	1710.594	1710.594*
2	Mine infrastructure / Mine entries/ Colony township / Office	22	154.456	176.456
3	Roads / water bodies	0	3.88	3.88
Total		22	1868.93	1890.93

\*In case any subsidence occurs in UG mining area it will be suitably reclaimed.

**14. Details of transportation:**

- v. **In-pit to surface:** Through covered belt conveyors from underground to surface.
- vi. **Surface to siding:** Coal is transported from the mine to the coal consumers through covered trucks. (distance upto 300 km)
- vii. **Siding to loading:** Coal is transported from the mine to the coal consumers through covered trucks.
- viii. **Quantity being transported by Road and rail:** No change proposed. (Coal dispatch in FY 2024-25) – Nil production.

**15. Details of reclamation:** 22 Ha area which is about 1.16 % of the total ML area of 1890.93 ha will be afforested post closure. Density of plantation shall be 2500 trees per Ha.

**27.4.6: Baseline data:**

Period	Dec 2022 to Feb 2023
AAQ parameters At 09 Locations (min and max)	<p><b>In core zone</b>  PM<sub>10</sub> = 67.1 µg/m<sup>3</sup> to 89.1 µg/m<sup>3</sup>  PM<sub>2.5</sub> = 37.2 µg/m<sup>3</sup> to 49.0 µg/m<sup>3</sup>  SO<sub>2</sub> = 18.1 µg/m<sup>3</sup> to 29.8 µg/m<sup>3</sup>  NO<sub>x</sub> = 15.2 µg/m<sup>3</sup> to 26.3 µg/m<sup>3</sup></p> <p><b>In buffer zone:</b>  PM<sub>10</sub> = 48.4 µg/m<sup>3</sup> to 82.5 µg/m<sup>3</sup>  PM<sub>2.5</sub> = 24.4 µg/m<sup>3</sup> to 47.0 µg/m<sup>3</sup>  SO<sub>2</sub> = 6.4 µg/m<sup>3</sup> to 29.1 µg/m<sup>3</sup>  NO<sub>x</sub> = 5.3 µg/m<sup>3</sup> to 24.3 µg/m<sup>3</sup></p>
Total GLC Level	<p><b><u>Cumulative:</u></b>  <b>Core zone:</b>  PM<sub>10</sub> = 89.355 µg/m<sup>3</sup> (Level at core zone).  PM<sub>2.5</sub> = 49.033 µg/m<sup>3</sup> (Level at core zone).  SO<sub>2</sub> = 30.262 µg/m<sup>3</sup> (Level at core zone).  NO<sub>x</sub> = 29.50 µg/m<sup>3</sup> (Level at core zone).  <b>Buffer Zone:</b>  PM<sub>10</sub> = 65.276 µg/m<sup>3</sup> (Level at 5 km in SW direction).  PM<sub>2.5</sub> = 38.175 µg/m<sup>3</sup> (Level at 5 km in SW direction).  SO<sub>2</sub> = 24.40 µg/m<sup>3</sup> (Level at 5 km in SW direction).  NO<sub>x</sub> = 19.99 µg/m<sup>3</sup> (Level at 5 km in SW direction).  <b><u>Incremental:</u></b>  <b>Core zone:</b>  PM<sub>10</sub> = 0.255 µg/m<sup>3</sup> (Level at core zone).  PM<sub>2.5</sub> = 0.033 µg/m<sup>3</sup> (Level at core zone).</p>

	SO <sub>2</sub> = 0.462 µg/m3 (Level at core zone). NO <sub>x</sub> = 3.20 µg/m3 (Level at core zone). <b>Buffer Zone:</b> PM <sub>10</sub> = 0.476 µg/m3 (Level at 5 km in SW direction). PM <sub>2.5</sub> = 0.075 µg/m3 (Level at 5 km in SW direction). SO <sub>2</sub> = 0.70 µg/m3 (Level at 5 km in SW direction). NO <sub>x</sub> 0.89 µg/m3 (Level at 5 km in SW direction).				
Ground water quality at 08 Locations	pH: 5.91 to 8.1, Total Hardness: 56 to 112 mg/l, Chlorides: 46 to 108 mg/l, Fluoride: 0.09 to 0.24 mg/l. TDS: 135 to 269 mg/l Calcium: 15 to 47 mg/l Sulphate: 5.1 to 8.8 mg/l Nitrate: 3.1 to 6.8 mg/l				
Surface water quality at 09 Locations	PH 7.2 to 8.1 BOD 6.5 to 12.2 mg/l COD 18 to 34 mg/l TSS 118 to 169 mg/l Nitrate 4.5 to 8.3 mg/l				
Noise levels Leq (Day and Night)	<b>Industrial Zone:</b> 44.5 to 53.2 Leq dB (A) for the day time and 37.6 to 44.8 Leq dB (A) for the Night time. <b>Residential Zone:</b> 43.8 to 52.3 Leq dB (A) for the day time and 34.5 to 46.5 Leq dB (A) for the Night time.				
Traffic assessment study findings	Traffic study has been conducted at mine site which is near to the mine site. Transportation of mineral will be done 100 % by road.				
	Road	V (Volume in PCU/hr)	C (Capacity in PCU/hr)	Existing V/C Ratio	LOS
	2 Lane Undivided (Two Way) of 10m Width (Sub arterial)	268.2	900	0.298	B (represents a zone of stable flow)
	PCU load after proposed project will be 268.2 (Existing) + 25(Additional) PCU/ hr and level of service (LOS) will be:				
	Road	V (volume in PCU/hr)	V (volume in PCU/hr)	Proposed V/C Ratio	LOS
	2 Lane undivided (Two way) of 10 m width (sub arterial)	293.20	900	0.326	B (represents a zone of stable flow)
	Note: Capacity as per IRC-106-1990 Guide line for capacity for roads. Conclusion: The level of service will 'B' after including additional traffic due to proposed project				
Flora and fauna	There is presences of Schedule – I species (Golden Jackal, Asian elephant, Striped hyaena, Sloth Bear, Indian Grey Mongoose, Indian Fox, Spectacled cobra, Rat snake) and Revised wildlife conservation plan has been prepared by TFRI Jabalpur in 2019, which has been approved by the PCCF(Wildlife), C.G. State vide order no 134 dtd.22.09.2021. Conservation fund of Rs. 19.0 Crore has been deposited in CAMPA.				
Water Requirement	Water requirement: 317 KLD (260 KLD for industrial use + 57 KLD for potable use) Source of Water: Mine seepage water Ground Water Intersection: Yes NoC from CGWA has been obtained by the PP vide no. CGWA/NOC/MIN/ORIG/2020/8581 dtd 04.09.2020 valid till 03.09.2022. Application for				

	renewal of GW NOC was submitted to the CGWA for which Internal EAC meeting has been held on 11.02.2025. GW abstraction charges paid up to 03.09.2026 on 16.05.2025 as per the demand note received from CGWA.
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**27.4.7: Water Requirement:** The water requirement for the said project is 317 KLD (260 KLD for industrial use + 57 KLD for potable use) and the same is being sourced from mine seepage water. NoC from CGWA has been obtained by the PP vide no. CGWA/NOC/MIN/ORIG/2020/8581 dated 04.09.2020 valid till 03.09.2022. Application for renewal of groundwater NOC was submitted to the CGWA for which Internal EAC meeting has been held on 11.02.2025. GW abstraction charges paid up to 03.09.2026 on 16.05.2025 as per the demand note received from CGWA.

**27.4.8: Power Requirement and details of diversion of Hi-Tension/ Transmission Line:** Power requirement is met through 33 KV feeder has been drawn from CSPDCL Korba & no diversion of Hi-Tension/ Transmission Line involved. Total power requirement is 5000KVA.

**27.4.9: Solid and Hazardous Waste:**

S. No.	Type of Waste	Source	Quantity	Mode of Treatment	Disposal
1	Used/spent oil (category 5.1 Hazardous Waste)	Use of diesel and lubricants in mining machineries	5.5 kl/year permitted quantity (generated quantity: 0.118 kl in FY 2023-24)	Disposed off through authorized recyclers	Disposed off through authorized recyclers
2	Waste/residue containing oil (category 5.2 Hazardous Waste)	Use of diesel and lubricants in mining machineries – oil filters	0.5 tonnes/year permitted quantity (generated quantity: 0.015 tonne in FY 2023-24)	To be disposed off through authorized TSDF	To be disposed off through authorized TSDF

**27.4.10: Details of Public Consultation held on 08.08.2024 in accordance with Ministry's O.M. dated 16.02.2021:**

Title	Public Hearing	Public Consultation as per Ministry's O.M. dated 16.02.2021 for Revalidation
Details of advertisement given	20.08.2004	Public Consultation through Paper publication (held on 08.08.2024)
Date of public consultation	29.09.2004	Public Notice has been published in 02 [Hindustan times, New Delhi on 08.08.2024 (Hindi), Local Danik Bhasker on 08.08.2024 (Hindi)] Newspapers on 08.08.2024 for public consultation.
Venue	Premises of SDO (Revenue), Korba	
Presiding Officer	SDO (Revenue), Korba	NA, Public consultation was done through newspaper publication and seeking comments through written submission only.
Number of Person Attended Hearing	100 Nos.	NA, Public consultation was done through newspaper publication
Number of representation received in writing from the district and outside of district, please give details:	11 Nos. from the district and NIL from outside.	NA, Public consultation was done through newspaper publication

Title	Public Hearing	Public Consultation as per Ministry's O.M. dated 16.02.2021 for Revalidation
Major issues raised	Drinking Water, Infrastructure, Education	No written response received on the public notice as communicated by 11.09.2024 through CECB. However, the project has proposed following action plan based on the earlier public hearing for Rajgamar UG mine held on 29.09.2004.

**Action plan as per MoEF&CC O.M. dated 30/09/2020**

S. No.	Physical activity and action plan	Year of implementation (Budget in Lakh)- 2025-26 onwards														Total Expenditure (in Rs Lakhs)
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1.	Infrastructure creation for drinking water Supply	1	1	1	3	3	3	3	3	3	3	2	2	2	2	32
2.	Sanitation	1	1	1	3	3	3	3	3	3	3	2	2	2	2	32
3.	Education	1	1	1	3	3	3	3	3	3	3	3	3	3	3	36
4.	Skill Development	1	1	1	3	3	3	3	3	3	3	3	3	3	3	36
5.	Basic Health Infrastructure	1	1	1	2	2	2	2	2	2	2	2	2	2	2	25
6.	Road Infrastructure	1	1	1	2	2	2	2	2	2	2	2	2	2	2	25
<b>Total</b>																<b>186</b>

**27.4.11: EMP Budget:** Existing capital cost of project is Rs. 21818 Lakhs as on 31.03.2025. There is no additional capital cost proposed for the same and the capital cost for environmental protection measures is proposed as Rs. 150 Lakhs additional capital cost. The annual recurring cost towards the environmental protection measures is proposed as Rs. 142 Lakhs. The employment generation from the instant project is 401 nos. of personnel as on 01.09.2024. The details of cost for environmental protection measures is as follows:

S. No.	Description of Item	Existing (In Rs. Lakh)		Proposed (In Rs. Lakh)	
		Capital Cost	Recurring Cost	Capital Cost	Recurring Cost
(i)	Air Pollution Control/ Noise Management	-	5 (hiring of 9 kl tanker)	20 (installation of fixed sprinklers)	45 (hiring of fog cannons)
(ii)	Water Pollution Control	512.19 (STP)	-	40 (ETP/Oil grease trap)	31 (running of STP)
(iii)	Environmental Monitoring and Management	-	42 (routine environmental monitoring)	90 (CAAQMS)	52 (REM and CAAQMS AMC)
(iv)	Green Belt & Plantation Development	-	25	-	25

S. No.	Description of Item	Existing (In Rs. Lakh)		Proposed (In Rs. Lakh)	
		Capital Cost	Recurring Cost	Capital Cost	Recurring Cost
(v)	Other heads as proposed in EIA/committed during the EAC	-	<ul style="list-style-type: none"> <li>1.5 lakh for environmental audit</li> <li>3 lakh as CTO renewal fee</li> </ul>		<ul style="list-style-type: none"> <li>1.5 lakh for environmental audit</li> <li>3 lakh as CTO renewal fee</li> <li>7 lakh for AMC of flowmeters, DWLRs</li> <li>80 lakh as environmental related studies</li> </ul>

**27.4.12: Plantation:** Existing green belt of 179.519 ha exist in the mine, which is about 9.50% of the total ML area of 1890.93 ha and 22 ha will be will be afforested post closure. Total plantation shall be developed in 201.519 Ha of ML area. Density of plantation shall be 2500 trees per Ha.

**27.4.13: Rehabilitation and Resettlement (R&R):** No R&R is involved in the said project.

**27.4.14: Project Cost:** The total capital cost of the project is Rs. 218.1758 Cr. as on 31.03.2025.

**27.4.15: Details of pending litigation:** PP reported that there is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air (P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act.

**27.4.16: Undertaking and Affidavit:** PP submitted the following Undertaking:

- This is to undertake with respect to Rajgamar Underground Coal Project that there is no construction/ mining done at the site or the construction done without any deviation as per the EC obtained (vide J-11015/165/2005-IA.II(M) dtd. 18.05.2006).
- This is to undertake with respect to the Rajgamar Underground Coal Project that there is no litigation pending on the project at NGT or any other court of law.
- This is to undertake with respect to Rajgamar Underground Coal Project that the land has been acquired as per the provision of Coal Bearing Areas (Acquisition and Development) Act 1957 vide Gazette Notification S. O. no. 2989 dtd. 17.10.1963, S. No. 1603 dtd. 19.04.1982, S. No. 30 dtd. 17.12.1985 and S. No. 1557 dtd. 04.07.1994. The land lease is in possession of Coal India Limited. There is no R&R issue involved.
- This is to undertake with respect to Rajgamar Underground Coal Project that there is no difference in the documents submitted i.e., Form 1, Mining Plan, EIA/EMP report and presentation being made to the EAC.
- This is to undertake with respect to Rajgamar Underground coal project that the project is being submitted for granted of revalidation of EC under the provisions of MoEF&CC S.O. 1530E dated 06.04.2018.
- This is to undertake that the project proponent has submitted the proposal is for obtaining revalidation of the EC issued under EIA Notification 1994 vide no. J-

11015/165/2005-IA.II(M) dtd. 18.05.2006, in compliance of the MoEFCC Notification S. O. 1530(E) New Delhi dtd. 06.04.2018.

Project proponent undertakes that, Rajgamar underground mine acquired 3486.577 ha land under the CBA, 1957 which includes 1486.151 tenancy land, 6.305 ha govt. land and 1994.121 ha forest land. However, due to reclassification of the forest land by the State Forest Department, at present the land use has changed to 981.165 ha tenancy land, 6.305 ha govt. land and 2499.107 ha forest land. Out of total forest land of 2499.107 ha, only 903.46 ha forest area is required for underground mining, rest 1595.647 ha forest land is undisturbed and no mining activity has been carried out. Therefore, the total land area requirement for the project has been reduced from 3486.577 ha to 1890.93 ha (which includes: 981.165 ha tenancy land, 6.305 ha Govt. land and 903.46 ha forest land) and the same has been reflected in the revised mining plan submitted to the MoEF&CC.

**27.4.17: ADS Reply:** M/s. Rajgamar Underground Coal Mine made an online application vide proposal no. IA/CG/CMIN/7579/2005. The proposal was initially considered in 40th meeting of EAC (Coal Mining) held on 26.10.2018. Proposal was deferred for want of additional information. The ADS reply was submitted via PARIVESH portal on 28.03.2024. Further, ADS was raised on the proposal on 11.04.2025. The ADS reply was submitted via PARIVESH portal on 24.05.2025, after which the proposal has been included in the Agenda of the 27th EAC (Coal Mining) scheduled on 18.06.2025.

Point-wise reply of ADS is given as below:

S. No.	Observation/ Desired Information MoM of 40th EAC Dt 26/10/2018	Reply by PP
1.	Preparation of EIA/EMP report based on one season baseline data along with the details in respect of the following:-	The EIA/EMP report has been prepared based on generic structure specified in Appendix III of EIA notification 2006 and complying Standard TOR for UG mine. The baseline data was collected during December 2022 to February 2023. The EIA/EMP report has been prepared including all the necessary inputs as sought by EAC/MoEF.
2.	Public Consultation, including public hearing, shall be conducted through concerned SPCB as per the provisions/ procedure contained in the EIA Notification, 2006 for information of the stakeholders about the present coal mining operations inviting comments and their redressal.	To streamline revalidation cases, MOEF has issued an OM dated 16.02.2021, suggesting PP shall invite the suggestions/ objections as wider part of public consultation instead of Public Hearing as per EIA 2006. An undertaking has been submitted by Project Proponent for complying point no. (3) of the OM no. F-No. 22-4/2020-IA.III dated 16.02.2021 (relevant document submitted). The public notice seeking suggestions/objections was published on 08.08.2024 in the in National edition – Hindustan times, New Delhi Local Danik Bhasker newspaper. No written comments/ suggestions/ objections were received as communicated by CECB/SPCB vide letter no: 1342 dated 11.09.2024(relevant document submitted).
3.	Valid Mining Plan and the Progressive Mine Closure Plan duly approved by the competent Authority.	The mining plan of the Rajgamar UG Mine for the production capacity of 0.45 MTPA along with the mine closure plan was approved by the CoFD of SECL in its 277th meeting held on 05.03.2025. A copy of the approved mining plan along with Mine closure plan is submitted.
4.	Compliance status of the conditions stipulated in the environmental clearance from the concerned Regional Office of the Ministry.	The site inspection for monitoring of EC conditions (0.45 MTPA) was carried out by the Regional Office, MoEF&CC, IRO, Naya Raipur on 19.06.2023. A copy of the CCR is submitted.

S. No.	Observation/ Desired Information MoM of 40th EAC Dt 26/10/2018	Reply by PP															
5.	Consent to operate from the State Pollution Control Board for the present mining operations.	Rajgamar UG Mine has obtained Consent to Operate for present mining operations from the CG Pollution Control Board vide consent no. 1266/TS/CECB/2025 Naya Raipur dtd. 30.04.2025 , which is valid up to 31.07.2025. A copy of the CTO- renewal letter is submitted.															
6.	Redressal of issues raised during the last public hearing conducted by the SPCB.	PH was conducted on 29.09.2004 for Rajgamar UG 0.45 MTPA. A copy of the pointwise compliance status of the issues raised during the public hearing is submitted.															
7.	Coal production realized from the mine from 1993-94 vis-à-vis capacity stipulated in the environment clearance.	Coal Production from mine vis-a-vis capacity stipulated in EC is submitted.															
8.	Need assessment survey for the activities proposed under the CSR and the comprehensive plan to be prepared accordingly for implementation by the project proponent. Also, impact of the CSR activities undertaken at an interval of 5 years to be evaluated and a report to be submitted.	The need-based assessment survey has been conducted for the villages falling in the core zone, i.e Godma, and Rajgamar Village. The report with budgetary provision is submitted. SECL has also conducted impact of CSR Activities undertaken as per CSR policy, copy of the report is submitted.															
9.	Stage-I/Renewal of forest clearance under the Forest (Conservation) Act, 1980, as the case may be, of the forest land involved in the project.	<p>Status of forest land diversion proposals involved in the project is as follows:</p> <table border="1"> <thead> <tr> <th>S. No.</th><th>Forest Land</th><th>Status</th></tr> </thead> <tbody> <tr> <td>1.</td><td>419.34 ha</td><td>Stage-I FC issued vide no. 8-103/2005-FC (Vol-1) dtd. 13.07.2011. Proposal for obtaining Stage-II clearance in process (copy of stage-I enclosed as <u>annex-a</u>)</td></tr> <tr> <td>2.</td><td>461.8 ha</td><td>Stage-I FC issued vide no. 8-103/2005-FC (Vol-1) dtd. 14.03.2006. Proposal for obtaining Stage-II clearance in process (copy of stage-I enclosed as <u>annex-b</u>)</td></tr> <tr> <td>3.</td><td>2.32 ha</td><td>8C/6/423/1997-FCW/752 dated 20.03.2003 (copy of stge-2 enclosed as <u>annex-c</u>).</td></tr> <tr> <td>4.</td><td>20.0 ha</td><td>Stage-II FC issued vide F.No. 6/CHC007/2006-HBO/1527 dated 29.11.2023 (copy of stge-2 enclosed as <u>annex-d</u>).</td></tr> </tbody> </table>	S. No.	Forest Land	Status	1.	419.34 ha	Stage-I FC issued vide no. 8-103/2005-FC (Vol-1) dtd. 13.07.2011. Proposal for obtaining Stage-II clearance in process (copy of stage-I enclosed as <u>annex-a</u> )	2.	461.8 ha	Stage-I FC issued vide no. 8-103/2005-FC (Vol-1) dtd. 14.03.2006. Proposal for obtaining Stage-II clearance in process (copy of stage-I enclosed as <u>annex-b</u> )	3.	2.32 ha	8C/6/423/1997-FCW/752 dated 20.03.2003 (copy of stge-2 enclosed as <u>annex-c</u> ).	4.	20.0 ha	Stage-II FC issued vide F.No. 6/CHC007/2006-HBO/1527 dated 29.11.2023 (copy of stge-2 enclosed as <u>annex-d</u> ).
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4.	20.0 ha	Stage-II FC issued vide F.No. 6/CHC007/2006-HBO/1527 dated 29.11.2023 (copy of stge-2 enclosed as <u>annex-d</u> ).															
10.	Details of court cases and the compliance status	No court cases have been registered against the project. Undertaking submitted.															

The ADS reply submitted via PARIVESH portal on 24.05.2025

S. No.	Observation/Desired information	Reply by PP
1.	As per EC dated 18.05.2006, the project area is 3486.577 Ha. However, lease area (3486.577 ha) and project area (1890.93 ha), both are mentioned on the cover page of EIA/ EMP report. Kindly clarify and make the necessary changes.	The lease area for Rajgamar underground mine acquired under the CBA, 1957 is 3486.577 ha which includes 1486.151 tenancy land, 6.305 ha govt. land and 1994.121 ha forest land. However, due to reclassification of the forest land by the State Forest Department, at present the land use has changed to 981.165 ha tenancy land, 6.305 ha govt. land and 2499.107 ha forest land. Out of total forest land of 2499.107 ha lying inside the acquired lease area, only 903.46 ha forest area is required for underground mining and surface rights purpose and rest 1595.647 ha forest area inside the lease area is undisturbed and is not required for the project. Therefore, the forest area

S. No.	Observation/Desired information	Reply by PP																				
		<p>requirement in the revised mining plan prepared as per the recent guidelines has been reduced to 903.46 ha, which involves the following forest land parcels:</p> <table><tr><th>S. No.</th><th>Forest Area (ha)</th><th>Status of FC</th><th>FC letter no.</th></tr><tr><td>1</td><td>20.0</td><td>Stage-II</td><td>6-CHC007/2006-HBO/1527 dated 29.11.2023</td></tr><tr><td>2</td><td>2.32</td><td>Stage-II</td><td>8C/6/423/1997-FCW/752 dated 20.03.2003</td></tr><tr><td>3</td><td>461.8</td><td>Stage-I (Stage-II awaited from the MoEF&amp;CC)</td><td>8-103/2005-FC dtd.14.03.2006</td></tr><tr><td>4</td><td>419.34</td><td>Stage-I (Stage-II awaited from the MoEF&amp;CC)</td><td>8-103/2005-FC (Vol-1) dtd. 13.07.2011</td></tr></table> <p>Copy of the revised mining plan is attached as Annexure-1. Therefore, the total land area requirement for the project has been reduced from 3486.577 ha to 1890.93 ha (which includes: 981.165 ha tenancy land, 6.305 ha Govt. land and 903.46 ha forest land) and the same has been reflected in the revised mining plan submitted to the MoEF&amp;CC. The reduced land is entirely within the acquired lease of 3486.577 ha.</p>	S. No.	Forest Area (ha)	Status of FC	FC letter no.	1	20.0	Stage-II	6-CHC007/2006-HBO/1527 dated 29.11.2023	2	2.32	Stage-II	8C/6/423/1997-FCW/752 dated 20.03.2003	3	461.8	Stage-I (Stage-II awaited from the MoEF&CC)	8-103/2005-FC dtd.14.03.2006	4	419.34	Stage-I (Stage-II awaited from the MoEF&CC)	8-103/2005-FC (Vol-1) dtd. 13.07.2011
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4	419.34	Stage-I (Stage-II awaited from the MoEF&CC)	8-103/2005-FC (Vol-1) dtd. 13.07.2011																			
2.	Kindly clarify, whether the infrastructure facilities are outside the area for which EC has been granted or within that area.	The infrastructure facilities including mining operations, mining offices, surface bunkers and conveyor belts, magazine, settling tank and filter plant are entirely within the area for which EC has been granted.																				
3.	As per 40th EAC MoM, out of the 1994.121 Ha of forestland, Stage-II approval under the Forest (Conservation) Act, 1980 for diversion of forest land for non-forestry use has been obtained for 243.917 ha of forest land while Stage-I FC is available for another 921.14 ha of forest land. No proposal seeking Stage-I forest clearance for the diversion of balance forest land of 916.993 ha has been submitted by the PP. However, as per the ADS reply submitted by the PP, the stage – I forest clearance has been obtained only for 881.14 ha and stage – II forest clearance has been obtained only for 20 ha. Clarification in this regard is required and the PP is required to	<p>At the time of the 40<sup>th</sup> EAC meeting, the land use was submitted as per the total mining lease/EC area, in which it was mentioned that the total forest land within the lease area of 3486.577 ha is 1994.121 ha. However, due to reclassification of the forest land by the State Forest Department, the land use in the lease area changed to 981.165 ha tenancy land, 6.305 ha govt. land and 2499.107 ha forest land.</p> <p>At present, out of the total forest land of 2499.107 ha only 903.46 ha forest area is required for underground mining and surface rights purpose and rest 1595.647 ha forest area inside the lease area is undisturbed and is not required for the project. Therefore, the forest area requirement in the revised mining plan prepared as per the recent guidelines has been reduced to 903.46 ha, which involves the following forest land.</p> <table><tr><th>S. No.</th><th>Forest area (Ha)</th><th>Status of FC</th><th>FC Letter No.</th></tr><tr><td>1.</td><td>20.0</td><td>Stage – II</td><td>6-CHC007/2006-HBO/1527 dated 29.11.2023</td></tr><tr><td>2.</td><td>2.32</td><td>Stage – II</td><td>8C/6/423/1997-OFCW/752 dated</td></tr></table>	S. No.	Forest area (Ha)	Status of FC	FC Letter No.	1.	20.0	Stage – II	6-CHC007/2006-HBO/1527 dated 29.11.2023	2.	2.32	Stage – II	8C/6/423/1997-OFCW/752 dated								
S. No.	Forest area (Ha)	Status of FC	FC Letter No.																			
1.	20.0	Stage – II	6-CHC007/2006-HBO/1527 dated 29.11.2023																			
2.	2.32	Stage – II	8C/6/423/1997-OFCW/752 dated																			

S. No.	Observation/Desired information	Reply by PP			
	submit the forest clearance of the entire forest land involved in the instant project. PP is also required to submit a letter from State Forest Department, stating the total quantum of forestland involved in the project.				20.03.2003
		3.	461.8	Stage – I (stage – II awaited from the MoEF&CC)	8-103/2005-FC dtd.14.03.2006
		4.	419.34	Stage – I (Stage – II awaited from the MoEF&CC)	8-103/2005-FC (Vol-1) dtd. 13.07.2011
		TOTAL	903.46		
		Letter of the State Forest Department, stating the total quantum of forestland involved in the project is submitted.			
4.	Kindly clarify whether underground mining has been done on the forestland on which stage – II FC is yet to be accorded. If not, then a letter in this regard shall be obtained from State Forest Department and the same shall be submitted.	As per the revised mining plan prepared for the project, 903.46 ha forest land is involved in the project area of 1890.93 ha. Proposal wise details of operational status below forest land areas below:			
		Forest land involved (ha)	Details of mining below forest land		
		20.0	Stage-2 obtained for surface use; no mining activity has been carried out below the forest land		
		2.32	Stage-2 obtained for surface use; no mining activity has been carried out below the forest land		
		461.80	Stage-1 obtained on 14.03.2006 and development activities continued below the forest land as per the guideline of Supreme court till Jan 2024. No depillaring operation has been carried out below the forest land. Copy of court order is submitted.		
		419.34	Stage-1 obtained on 14.03.2006. Mining was discontinued since Feb. 2014. No depillaring operation has been carried out below the forest land.		
5.	Kindly submit the status of Schedule – I species observed in the study area and Wildlife Conservation Plan for the said project.	Status of Schedule-1 species observed in the study area is provided in the approved wildlife conservation plan of the area, which is submitted.			
6.	Kindly submit the details of water requirement for the said project and the latest status of CGWA application renewal.	As per the latest CHR (Comprehensive Hydrogeological Report) of September-2024 prepared for obtaining GW NOC renewal in respect of Rajgamar UG mine submitted, details of water requirement of the project are as below: -			
		S.No	Purpose/ Activity	Demand (m³/day)	Remarks
		1.	Domestic Use in Mine premises	18	Treated mine water from the filter plant is used for domestic purpose in the mine offices
		2.	Water Supply to colony	800	Treated mine water from the filter plant is supplied to the project colony
		3.	Agriculture	20396	Treated mine water used for agriculture through local drainage
		4.	Water supply to nearby villages	101	Treated mine water from the filter plant is supplied to the nearby villages
		Total		21315 m³/day	

S. No.	Observation/Desired information	Reply by PP									
		GW NOC was issued by the CGWA to Rajgamar u/g mine for the period from 04.09.2020 to 03.09.2022. Application for renewal of GW NOC was submitted to the CGWA for which Internal EAC meeting has been held on 11.02.2025. GW abstraction charge sapid to CGWA on 16.05.2025 as per the demand note received from CGWA. GW NOC renewal is awaited from CGWA.									
7.	Kindly submit the same method of transportation being followed for the said mine from in- pit to surface, surface to siding, siding to loading and then to the final consumer. In case, road transportation is being done, then PP shall submit a transportation assessment study report for the said mine, which shall include: a) Details of existing road transportation route (this shall include the type of road, length of the road, nearest habitation on the road). b) Detailed traffic study report of the road route through which transportation of coal is being done. c) It is requested to submit the AAQM details of the road through which transportation of coal is being done (of both day and night time) for. d) It is requested to submit the noise quality monitoring details of the road through which transportation of coal is being done (of both day and night time) for. e) Environmental Management Plan including monitoring program to address all concerns arising out of coal transportation by road.	Coal is being transferred from in-pit to surface through Conveyor belts, surface to siding and to the coal consumers through roads. Transportation assessment study report submitted <table border="1"> <thead> <tr> <th>Condition</th><th>V/C</th><th>LOC</th></tr> </thead> <tbody> <tr> <td><b>Existing:</b> Road two way-width 10 m</td><td>0.298</td><td>B- (Represents a zone of stable flow)</td></tr> <tr> <td><b>Proposed:</b> Road- two way-width 10 m</td><td>0.326</td><td>B- (Represents a zone of stable flow)</td></tr> </tbody> </table>	Condition	V/C	LOC	<b>Existing:</b> Road two way-width 10 m	0.298	B- (Represents a zone of stable flow)	<b>Proposed:</b> Road- two way-width 10 m	0.326	B- (Represents a zone of stable flow)
Condition	V/C	LOC									
<b>Existing:</b> Road two way-width 10 m	0.298	B- (Represents a zone of stable flow)									
<b>Proposed:</b> Road- two way-width 10 m	0.326	B- (Represents a zone of stable flow)									
8.	Kindly submit the details of sensitive receptors on the coal transportation road, along with the mitigation measures being followed and further proposed to be followed.	Details of sensitive receptors on the coal transportation road, along with the mitigation measures being followed has been addressed in Transportation assessment study report.									
9.	Kindly submit the drone video and the geo-tagged photographs of the coal transportation route.	Mine drone video and Geo-tagged photographs of coal transportation route were presented.									
10.	Kindly submit the Action Taken Report on the Certified Compliance Report obtained from Ministry's RO, vide letter dated 19.06.2023. A closure report from the RO shall be obtained and the same shall be	Action Taken Report on the Certified Compliance Report obtained from the Ministry's RO, vide letter dated 19.06.2023 was submitted. Closure report of the CCR has been requested from the IRO.									

S. No.	Observation/Desired information	Reply by PP
	submitted to the Ministry.	
11.	English translation of “redressal of issues raised during the last public hearing conducted by the SPCB” shall be submitted.	English translation of “redressal of issues raised during the last public hearing conducted by the SPCB” is submitted.
12.	Presentation to be presented is requested to be submitted.	Presentation to be presented has been submitted.

**27.4.19: Written Submissions:** PP during the meeting submitted the following:

S. No.	Observations	Response of PP				
1	Affidavit for status of the remaining land obtained by PP under CBA.	PP submitted the affidavit stating the following: “Out of total forestland of 2499.107 Ha, only 903.46 ha of forest area is required for underground mining. Rest 1595.647 Ha forestland is undisturbed and no mining activity is carried out.”				
2	Land – use pattern	<b>Pre- mining land use:</b>				
		<b>S. No.</b>	<b>Land Use</b>	<b>Within ML Area (Ha)</b>	<b>Outside ML Area (Ha)</b>	<b>Total</b>
		1.	Agriculture land	981.165	-	981.165
		2.	Forest Land	903.46	-	903.46
		3.	Waste Land	-	-	-
		4.	Grazing Land	6.305	-	6.305
		5.	Surface Water bodies	-	-	-
		6.	Settlements	-	-	-
		7.	Other (specify)	-	-	-
			<b>Total</b>	<b>1890.93</b>	<b>-</b>	<b>1890.93</b>
		<b>Post – mining land use pattern:</b>				
		<b>S. No.</b>	<b>Particulars</b>	<b>Reclaimed Area (in ha)</b>	<b>Undisturbed (in ha)</b>	<b>Total Area (in ha)</b>
		1	Area marked for underground mining	0	1710.594	1710.594*
		2	Mine infrastructure / Mine entries/ Colony township / Office	22	154.456	176.456
		3	Roads / water bodies	0	3.88	3.88
		Total		22	1868.93	1890.93
		*In case any subsidence occurs in UG mining area it will be suitably reclaimed.				

**Observation and deliberation of the EAC:**

**27.4.20: The Committee noted the following:**

1. The instant proposal is for revalidation of EC accorded by M/s South Eastern Coalfields Ltd for Rajgamar Underground Coal Mine vide letter no. J-11015/165/2005-IA.II(M) on 18.05.2006 for production capacity of 0.45 MTPA in the ML area of 3486.577 Ha, under the EIA Notification, 1994. The revalidation of EC granted is under EIA Notification 2006 (as amended) as per the provision of S.O 1530(E) dated 06.04.2018 read with OM dated 16.02.2021.
2. PP applied for revalidation of EC in PARIVESH Portal on 04.09.2018, i.e., well within the window period of 6 months (i.e. before 05.10.2018) and also submitted Form-1 as required under S.O 1530(E) dated 06.04.2018 for the re-validation of EC under EIA Notification 2006 (as amended).
3. The project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018.
4. Committee observed that the coal block/lease of 3486.577 Ha was acquired by the PP under the CBA Act, 1957 vide S.O. 1st phase: No. 2989 dtd.07.10.1963 2nd phase: No.1603 dtd.19.04.1982 3rd phase: No. 30 dtd.17.12.1985 4th phase: No. 1557 dtd.04.07.1994. The rights are vested with the coal producing company perpetually. However, the mining activity is restricted to 1890.93 Ha only. Committee deliberated on the status of mining in the remaining 1595.647 Ha of block area and observed that no mining activity has been carried out by the PP in the remaining 1595.647 Ha of block area. Committee also observed that, the said land is coal bearing area and will be used for future expansion. Committee opined that the remaining 1595.647 Ha of block area shall be clearly demarcated and no mining related activity shall be carried out in the same till the time a fresh EC for the same is not obtained.
5. As per EC issued to project vide letter no J-11015/165/2005-IA-II(M) Date 18.05.2006 for capacity 0.45 MTPA it was mentioned that the total forest land within the lease area of 3486.577 ha is 1994.121 ha. PP submitted that, due to reclassification of the forest land by the State Forest Department, the land use in the lease area changed to 981.165 ha tenancy land, 6.305 ha govt. land and 2499.107 ha forest land. At present, out of the total forest land of 2499.107 ha only 903.46 ha forest area is required for underground mining and surface rights purpose and the remaining 1595.647 ha forest area inside the lease area is undisturbed and is not required for the project. Therefore, the forest area requirement in the revised mining plan prepared as per the recent guidelines has been reduced to 903.46 ha, which involves the following forest land. The PP has accorded stage – II forest clearance on 22.32 Ha of forestland and Stage – I forest clearance on 881.14 Ha.
6. Committee sought clarification regarding the status of mining activities carried out under 903.46 Ha of forest land. Committee observed that, as per letter no 2970 dated 22/05/2025 of DFO Korba submitted by PP, “1. 903.46 ha of forest land is involved within total mining lease of 1890.93 ha. 2. The details of quantum of forest land involved in the project and proposal – wise status regarding underground mining operations is as follows” –

S. No.	Forest Land Involved	Details of mining below forest land
1.	20.0	Stage -2 was obtained for surface use no mining activity has been carried out below the forest land.
2.	2.32	Stage -2 was obtained for surface use no mining activity has been

S. No.	Forest Land Involved	Details of mining below forest land
		carried out below the forest land.
3.	461.8	Stage-1 obtained on 14.03.2006, development activities continued below the forest land as per the guideline of Supreme court till Jan 2024. No depillaring operation has been carried out below the forest land.
4.	419.34	Stage-1 obtained on 14.03.2006. Mining was discontinued since Feb. 2014. In absence of depillaring permission from DGMS
<b>Total</b>	<b>903.46</b>	

Committee opined that revalidation of EC shall be restricted to only 1890.93 ha including forest land 903.46 ha on which Stage – I forest clearance is obtained by the PP. Further, no mining activity shall be carried out in 461.8 Ha + 419.34 Ha of forestland on which Stage – II forest clearance is yet to be obtained.

7. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ tiger corridor/elephant corridor etc. Lemru Elephant Reserve is located at 2.2 km from the project area (Lemru Elephant Reserve notified by CG State in Oct 2021). Revised wildlife conservation plan has been prepared by TFRI Jabalpur in 2019, which has been approved by the PCCF (Wildlife), C.G. State vide order no. 134 dtd.20.03.2021. Conservation fund of Rs. 19.0 Crore has been deposited in CAMPA.
8. Mining plan along with mine closure plan approved in the 277th Meeting of CoFD, SECL held on 05.03.2025 for the ML area of 1890.93 Ha, for the production capacity of 0.48 MTPA.
9. Method of Mining to be adopted shall be Underground mining, with bord and pillar method of mining.
10. Net geological reserve reported in the mine lease area is 39.674 MT with 12.475 MT mineable reserves. The percentage of extraction is 48.16%. Out of total mineable reserve of 12.475 MT, 6.009 MT coal is available for extraction as on 01.04.2025.
11. Life of mine is 14 years (as on 01.04.2025) and grade of coal is G-4 & G-5.
12. Committee observed some discrepancy in the post – mining land use pattern. PP rectified the same and submitted.
13. Committee deliberated on the method of transportation of coal and observed that, the entire coal is being evacuated by road. Since the production capacity of the said mine is less, not much load is there on the road, due to transportation of coal. However, Committee opined that PP shall take all precautionary measures to mitigate air pollution due to coal transportation. Adequate plantation shall be done on both the side on the roads through which coal is being transported.
14. Committee deliberated on the baseline data submitted by the PP and observed that, all the parameters are within the prescribed limits. However, Committee opined that PP shall continue with the environment protection measures, and further focus on sustainable mining activities.
15. Committee deliberated on the water requirement for the said project is 317 KLD (260 KLD for industrial use + 57 KLD for potable use) and the same is being sourced from mine seepage water. NoC from CGWA has been obtained by the PP vide no. CGWA/NOC/MIN/ORIG/2020/8581 dated 04.09.2020 valid till 03.09.2022.

Application for renewal of groundwater NOC was submitted to the CGWA for which Internal EAC meeting has been held on 11.02.2025. GW abstraction charges paid up to 03.09.2026 on 16.05.2025 as per the demand note received from CGWA.

16. Committee observed that, advertisement for public consultation through written submissions was given in accordance to Ministry's OM dated 16.02.2021, in Hindustan times, New Delhi on 08.08.2024 (Hindi), Local Danik Bhasker on 08.08.2024 (Hindi), through RO, CECB, Korba. As per the CECB, Korba letter dated 11.09.2024, no written comments/ suggestions/ objections were received from the public.
17. Committee further deliberated on the action plan for next 14 years of old public hearing that took place on 12.10.2001 and observed that, the PP has allocated a budget of Rs. 186 Lakhs. Committee opined that, PP shall implement the same in a time bound manner.
18. In pursuant to OM dated 16.02.2021, PP also submitted that there has been no change in mining namely mining method, mining plan, mineral transportation, water requirement, reclamation plan after obtaining EC for production capacity of 0.45 MTPA.
19. Existing capital cost of project is Rs. 218.1758 Cr as on 31.03.2025. There is no additional capital cost proposed for the same and the capital cost for environmental protection measures is proposed as Rs. 150 Lakhs additional capital cost. The annual recurring cost towards the environmental protection measures is proposed as Rs. 142 Lakhs. The employment generation from the instant project is 401 nos. of personnel as on 01.09.2024. Committee opined that the same shall be efficiently implemented in a time – bound manner.
20. Committee deliberated on the plantation and observed that existing green belt of 179.519 ha exist in the mine, which is about 9.50 % of the total project area of 1890.93 ha and 22 ha will be will be afforested post closure. Density of plantation shall be 2500 trees per Ha.
21. There is no rehabilitation and resettlement involved in the said project.
22. Committee deliberated on the Certified Compliance Report and observed that, Status of compliance of earlier EC was obtained from Regional Office, Naya Raipur vide letter no. 3 -24/2006(Env) Dated: 19.06.2023 in the name of Rajgamar Underground Coal Mine. And the same was submitted to MoEF&CC vide PARIVESH portal on 28.03.2024, i.e., well within the time frame of 1 year. The action taken report regarding the being complied / partially complied / non – complied conditions has been submitted to Regional Officer, MoEFCC, Naya Raipur vide letter no 451 dated 28.01.2025 and dated 30.04.2025.
23. There are no court cases related to environment pending against the instant project.
24. Committee opined that the PP shall align its activities with the sustainable development goals.
25. The EAC also deliberated on the written submissions of the project proponent and found it satisfactory.
26. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his

knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

**Recommendations of the Committee:**

**27.4.21:** In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of revalidation of EC dated 18.05.2006 as per provisions of S.O. 1530(E) dated 06.04.2018 read with OM dated 16.02.2021. Grant of revalidation of EC is subject to the compliance of the following specific conditions and standard conditions in addition to the conditions granted in earlier EC:

**Specific Conditions:**

1. The mine lease area shall be restricted to 1890.93 Ha only and no mining activities shall be carried out in the forestland of 461.8 Ha + 419.34 ha on which stage - II forest clearance is yet to be obtained. PP shall clearly demarcate the 1595.647 Ha of forestland (which is not part of the instant proposal), in consultation with the State forest department. All officers, supervisors, overman, mate, workers, operators, persons employed in the mine should be made aware about the unutilised forestland and its boundaries so that there is no disturbance of the same.
2. Project proponent shall obtain the CGWA NoC for not less than 371 KLD groundwater, proposed to be used in the instant proposal.
3. PP shall monitor the subsidence and take necessary measures/ steps for filling the subsidence area as per subsidence plan.
4. The budget proposed for Public Hearing is Rs 186 Lakhs. The budget proposed shall be kept in a separate account and shall be audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 14 years from the date of grant of revalidation of EC. PP shall submit the progress report regarding the implementation of the action plan to concerned RO along with the six monthly compliance report. Apart from this, PP shall strengthen the primary health centres and community health centres within the study area for improving facilities for enhancing quality of public health service. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office of MoEF&CC.
5. Project proponent shall implement the protective measure proposed in Environment Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs 150 Lakhs (Capital) and Rs 142 Lakhs per annum (recurring) and should be kept in separate accounts and audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office for the activities carried out during the previous year.
6. Project proponent shall pay to farmers of agricultural land if there is any loss due to pollution found by the concerned District Commissioner as per extent rules or norms. Suitable measures for enrichment of nitrogen in the soil will be taken up for improving the soil fertility and effective steps will be taken to support the farming community in enhancing the production.
7. Total plantation by the end of the mine life shall be done in atleast 201.519 Ha of ML

- area. Apart from this community plantation shall be carried out on the land purchased for surface rights. Dense plantation shall also be carried out on both the sides of coal transportation roads. Plantation shall be done with the native species.
8. Proponent shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.
  9. Intensive gap plantation of suitable local species with saplings of not less than 2 meter height, shall be done along with construction of water harvesting structures on watershed treatment basis in the forest area for which the Stage – II FC has been obtained or to be obtained under Van (Sanrakshan Evam Samvardhan), Adhiniyam, 1980 for underground mining with the help of forest department within one year of issue of the revalidation. Avenue plantation shall be done along the coal transportation road, with local native species with saplings of not less than 2 meter height.
  10. Project Proponent shall ensure that all types of plastic waste generated from the mines shall be stored separately in isolated areas and disposed of strictly adhering to the Plastic Waste Management Rules 2016. In pursuant to the Ministry's OM dated 18/07/2022, PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of the Ministry's Notification published by the Ministry on 12/08/2021. A report along with the photographs of the measures taken shall also be included in the six monthly compliance reports being submitted by PP.
  11. PP should establish an Environment Management Cell at its mines in order to make sure that all the compliances related to environment are being complied efficiently. PP should conduct the monthly review meeting with the environment management cell shall be carried out at mine level and quarterly at with environment management committee of the company. The record of the same shall be maintained.
  12. The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project.
  13. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
  14. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation.
  15. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/Regulations or Statutes, as applicable, to the project.
  16. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
  17. Validity of EC is as per the para 9 of EIA Notification 2006 read with its subsequent amendment dated 12th April 2022.
  18. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the

National Green Tribunal Act, 2010.

19. The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of Common Cause Vs Union of India & others.
20. The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology in strict compliance of the judgment of Hon'ble Supreme Court. This environmental clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements.
21. All other conditions stipulated in EC dated 18.05.2006 shall remain the same.

**General Instructions:**

- a. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC website where it is displayed.
- b. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.
- c. The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental forest / wildlife norms/conditions.
- d. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
- e. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- f. The Regional Office of this MoEF&CC shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.

**Agenda Item No. 27.5:**

27.5: Rehar Underground Coal Mine Project (ML area: 408.20 Ha having production capacity of 0.31 MTPA) by M/s South Eastern Coalfields Limited, village: Getra; Tehsil: Ambikapur; District: Surguja; State: Chhattisgarh – Revalidation of Environment Clearance Notification S.O. No. 1530(E) dated 06/04/2018 with reduction in ML area from 424.70 Ha to 408.20 Ha– reg.

**[Online Proposal No. IA/CG/CMIN/26364/2002; Consultant: CMPDIL - NABET/EIA/22-25/SA 0223 valid up to 07.07.2025]**

**27.5.1:** M/s South Eastern Coalfields Limited has made an online application vide proposal no. IA/CG/CMIN/26364/2002 dated 04.09.2018 along with copy of EIA/EMP report, Form, Certified compliance report seeking for revalidation of Environment Clearance (EC) under EIA, 2006 accorded to Rehar Underground Coal Mine Project vide letter no. J-11015/25/2000-IA-II(M) dated 27.11.2002 for production capacity of 0.31 MTPA in the ML area of 424.70 Ha, under the EIA Notification, 1994. The instant proposal is for obtaining re-validation of EC under EIA Notification, 2006, in compliance of the Gazette Notification S.O. No. 1530(E) dated 06/04/2018, for existing project.

The proposal was initially considered in 40<sup>th</sup> meeting of EAC (Coal Mining Sector) held on 26.10.2018 and was deferred for the want of additional information sought by the EAC. As per the amendment to EIA Notification, 2006 on 20/04/2022, the proposed project activity is now listed at schedule no. 1(a) “mining of minerals” Under Category “B” of the schedule of the EIA Notification, 2006. However, as per the Ministry’s OM dated 27.09.2022, “*The proposals which have been considered/ appraised once by EAC either for ToR or EC, but final decision has not been taken, shall continue to be appraised at the Central level only, till final disposal for ToR/ EC, even after the amendments in the EIA Notification are issued from to time regarding delegation of projects to SEIAAs*”. The ADS reply was submitted by the PP on 20.04.2024 and the proposal was again appraised in the 23<sup>rd</sup> EAC meeting held on 03.04.2025. The proposal was again deferred for ADS and the PP submitted the ADS reply on Parivesh 1.0 vide letter dated 23.05.2025. Now the proposal is again listed in the 27<sup>th</sup> EAC meeting held on 18.06.2025.

**Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:**

**27.5.2: Previous Approvals in chronological orders:** Project proponent submitted the details of the previous approvals in the chronological order as follows:

S. No.	Details of Letter No.	EC	Capacity	Area
1	J-11015/25/2000-IA-II(M) dated 27.11.2002.	EC under the provisions of EIA Notification 1994	0.31 MTPA	424.70 Ha

W.r.t the previous approvals, proponent submitted the actual production details of the concerned mine and submitted that the mine became operational from 1999 onwards. CTO renewal has been obtained from SPCB and is valid up to 26.08.2025. Details of the same are as follows:

Year	Actual Coal Production in MTPA	Planned Coal Production in MTPA as per Consent/ Environmental Clearance	Excess production
1999-00	0.027	Consented capacity - 0.24	NIL
2000-01	0.071	0.24	NIL
2001-02	0.084	0.24	NIL
2002-03	0.114	EC granted - 0.31	NIL
2003-04	0.130	0.31	NIL
2004-05	0.241	0.31	NIL
2005-06	0.229	0.31	NIL
2006-07	0.247	0.31	NIL
2007-08	0.265	0.31	NIL
2008-09	0.260	0.31	NIL
2009-10	0.291	0.31	NIL
2010-11	0.310	0.31	NIL
2011-12	0.281	0.31	NIL
2012-13	0.276	0.31	NIL
2013-14	0.248	0.31	NIL
2014-15	0.250	0.31	NIL
2015-16	0.206	0.31	NIL
2016-17	0.254	0.31	NIL
2017-18	0.187	0.31	NIL
2018-19	0.138	0.31	NIL
2019-20	0.126	0.31	NIL
2020-21	0.115	0.31	NIL
2021-22	0.096	0.31	NIL
2022-23	0.073	0.31	NIL
2023-24	0.031	0.31	NIL
2024-25	0.0328	0.31	NIL

**27.5.3: Certified Compliance Report:** The status of compliance of earlier EC was obtained from Regional office of Chhattisgarh Environment Conservation Board (SPCB) vide letter no – 1866 dated 24.10.2024 in name of M/s Rehar Underground mine and subsequently forwarded by the Member secretary of CECB vide no – 7402 dated 21.11.2024. The action taken report regarding the complied / partially complied / non – complied conditions has been submitted to Regional Officer, Chhattisgarh Environment Conservation Board vide – SAM / RGK / 2024 / 485 dated 16.12.2024. The details of the observations made by the RO in the report dated 24.10.2024 along with present status as furnished by the proponent is given as below:

S. No.	Non Compliance Detail	Observations of RO (abridged)	Condition no.			Re-assessment by RO / Response of PP.
			EC date	Specific	General	

S. No.	Non Compliance Detail	Observations of RO (abridged)	Condition no.			Re-assessment by RO / Response of PP.
			EC date	Specific	General	
1.	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with state pollution control board.	Partially Complied. Monitoring is done through CMDPI, RI – V, NABL (accredited agency)	27.11.2002	-	Condition no - 11	Environment Lab at Area Level has been set up and is fully functional.

In absence of the CCR from RO, MoEF&CC and as per directives of MoEF&CC vide OM no – IA-22/10/2022-IA.III(177258) dated 08.06.2022, Member secretary of CECB was requested for issuance of CCR vide letter no -66 dated 27.06.2024. Therefore, after completion of inspection from SPCB, the Member Secretary of SPCB has issued CCR pertaining to Rehar UG Mine vide letter no – 7402 dated 21.11.2024.

**27.5.4: Environmental Site Settings:** The project area is covered under Survey of India Topo sheet No. 64 – I/1 of RF 1:50,000 and is bounded by the geographical coordinates ranging from 23<sup>0</sup>05'15" to 23<sup>0</sup>07'30" North and longitudes 82<sup>0</sup>53'32" to 83<sup>0</sup>56'53" East.

Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018 of CPCB.

**Mining Lease:** PP submitted the following details of the mining lease:

S. No.	Govt. Order/ Notifications as the case may be	Area (Ha)	Remarks
1.	Section 9(i) vide Gazette of India Notification No. 1746 dated 05.09.1998	408.20 Mining Rights	Combined notification for acquiring land of Rehar UG Mine & Gaytri UG Mine acquired under CBA Act, 1957.
2.	Section 9(i) vide Gazette of India Notification No. 2672 dated 16.08.2017	408.20 Ha (All rights)	
Total		408.20 Ha (all rights)	
3.	Details of LOI (for area outside lease area)	NIL	
<b>Grand Total</b>		<b>408.20 Ha</b>	

The block allotment is valid till the life of the mine.

**Forest Area:** The project involves total 70.39 Ha of forestland. Details of approval are as follows:

S. No.	Obtained vide letter No.	Area (ha)	Stage I/II	Validity
1	F.No 8-90/99-FC Dated 27.09.2000.	70.39 Ha (Phase – 1).	Final FC (Stage – II)	30 years

No forestland is broken up till date (as it is an underground mine) and the project does not involves violation of Van (Sanrakshan Evam Samvardhan), Adhiniyam, 1980.

It is pertinent to mention that the forest clearance accorded vide letter dated 27.09.2000, was for 547.012 Ha of forestland, which involved forest clearance for both Gayatri and Rehar UG

mine. The total forest clearance granted for Rehar UG was for 130.24 Ha. However, in the current proposal only 70.39 Ha of forestland is involved. Proponent submitted that remaining 59.850 ha will be involved in the Phase – II of the project of Rehar UG Mine.

An undertaking w.r.t to the mining done in forest land, that the mining in the forest land is only restricted to 70.39 Ha of Forest land in Phase – 1 against the forest clearance accorded for 130.240 Ha for Rehar UG coal Mine has been submitted by the PP.

The geo-tagged photographs of the remaining forest land of 59.85 ha have also been submitted

**Protected Area:** The project is not located within 10 km of any ESZ /ESA / national park / wildlife sanctuary / biosphere reserve / tiger reserve / elephant reserve / tiger corridor / elephant corridor etc. The project involves Schedule – I species and Wildlife Conservation Plan is under preparation. The project does not involves violation of WLP Act.

#### Other Sensitive Receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
i. Habitation	<b>Village</b>	<b>Distance</b>	<b>Direction</b>
	Getra	1 km	North West
	Mani	3 km	North East
	Podi	4 km	North
ii. School	<b>Schools</b>	<b>Distance</b>	<b>Direction</b>
	Mani	3 Kms	North East
	Podi	4 kms	North
iii. River/ Waterbody	<b>River /Nallah</b>	<b>Distance</b>	<b>Direction</b>
	Jobga Nallah	<1.00 km	South West
	Rehar River (HFL is 538 as on 22.07.2001)	< 1.00 km	South East
iv. Forest	<b>Reserved / Protected forests</b>	<b>Distance</b>	<b>Direction</b>
	Rajapur RF	3 Kms	West
v. Archaeological Survey of India (ASI) protected site	No		
vi. Any other	No		

There is no diversion of any road, HT line, water body or railway line proposed for the said project, neither any diversion is done previously.

**27.5.5: Method of Mining and Mining Plan:** Revised Project Report of Rehar UG Mine, capacity 0.31 MTPA, approved by SECL board in 104<sup>th</sup> board meeting dated 08.04.1999. Mine Plan of Rehar UG Mine was approved by the committee of functional Directors (CoFD) of SECL in their 275<sup>th</sup> meeting held on 20<sup>th</sup> February, 2025, vide letter dated 22.02.2025.

1. Method of mining proposed is underground coal mining with bord and pillar method and a combination of LHD, UDM and belt conveyor combination.
2. The geological reserves are reported to be 15.76 MT and mineable reserves are 7.346 MT, out of which the extractable reserves are 4.508 MT (as on 01.04.2024). Percentage of extraction is 61.36%.

3. There are total 5 nos of seams out of which 2 seams are workable. The thickness of workable seams is between 2 m – 3.5 m.
4. Grade of coal is G6 & G7. Stripping ratio is not applicable, as it is an underground mine.
5. Life of mine is 16 years as on 01.04.2024.
6. Land use details:

a. Pre-mining land use:

S. No.	Land Use	Within ML area	Outside ML Area	Total (in ha)
1.	Agricultural Land	302.105	-	302.105
2.	Forest land	70.390	-	70.390
3.	Govt. land	35.705	-	35.705
4.	Other	-	-	-
<b>Total</b>		<b>408.20</b>	<b>-</b>	<b>408.20</b>

b. Post mining land use:

S. No.	Type	Reclaimed Area (in ha)	Undisturbed (in ha)	Total Area (in ha)
1.	Excavation / UG Mining Area	-	400.7	400.7
2.	Mine infrastructure / Mine entries/	7.5	-	7.5
<b>Total</b>		<b>7.5</b>	<b>400.7</b>	<b>408.20</b>

7. Details of Transportation:

- a) In-pit to surface: Transportation of coal from underground to Bunkers (located on surface) is being done through series of conveyor belts.
- b) Surface to siding: The transportation of coal from stock yard/ bunker to Bishrampur/ Kumda siding by tarpaulin covered trucks/ tippers (approx. distance 21 Kms through Public road). However, currently the coal is being transported only through road, as the production is low.
- c) Siding to loading: Coal from Kumda railway siding will be loaded into railway wagons by mechanical means (i.e. payloaders). Transportation of coal directly to local consumers through trucks/ tippers covered with tarpaulin.
- d) Quantity being transported by rail/ road/ conveyor/ ropeway:  
In FY 2023-24,  
By Rail – Nil  
By Road – 39039.85 Tonnes.

8. Details of reclamation: Afforestation shall be done progressively covering an area of 7.5 Ha at the end of mining. This will include only greenbelt development of 7.5 Ha with the density of plantation of 2500 plants/ Ha.

### 27.5.6: Baseline data:

Period	Oct 2022 to Dec 2022				
AAQ parameters at one location (Mine office Rehar) in core zone & 8 Locations in buffer zone (min and max).	<b>Core zone:</b> $PM_{2.5} = 32 \text{ to } 54 \mu\text{g}/\text{m}^3$ $PM_{10} = 141 \text{ to } 189 \text{ Mg}/\text{m}^3$ $SO_2 = 24 \text{ to } 39 \mu\text{g}/\text{m}^3$ $NO_x = 12 \text{ to } 28 \mu\text{g}/\text{m}^3$ $CO = NA$ <b>Buffer Zone:</b> $PM_{2.5} = 12 \text{ to } 35 \mu\text{g}/\text{m}^3$ $PM_{10} = 40 \text{ to } 83 \text{ Mg}/\text{m}^3$ $SO_2 = 6 \text{ to } 28 \mu\text{g}/\text{m}^3$ $NO_x = 10 \text{ to } 19 \mu\text{g}/\text{m}^3$ $CO = NA$				
Incremental GLC Level	<b>Core zone:</b> $PM_{10} = 6.11 \mu\text{g}/\text{m}^3$ (Level at core zone) $PM_{2.5} = 0.66 \mu\text{g}/\text{m}^3$ (Level at core zone) $SO_2 = 00.00 \mu\text{g}/\text{m}^3$ (Level at core zone) $NO_x = 1.34 \mu\text{g}/\text{m}^3$ (Level at core zone) <b>Buffer Zone:</b> $PM_{10} = 0.38 \mu\text{g}/\text{m}^3$ (Level at 4.5 km in SW Direction) $PM_{2.5} = 0.07 \mu\text{g}/\text{m}^3$ (Level at 4.5 km in SW Direction) $SO_2 = 0.00 \mu\text{g}/\text{m}^3$ (Level at 4.5 km in SW Direction) $NO_x = 0.22 \mu\text{g}/\text{m}^3$ (Level at 4.5 km in SW Direction)				
Ground water quality at 4 Locations.	pH: 6.67 to 7.12, Total Hardness: 28 to 160 mg/l, Chlorides: 20 to 92 mg/l, Fluoride: 0.1 to 0.62 mg/l. Iron: <0.002 to <0.002 mg/l Cadmium: <0.0005 to <0.0005 mg/l Lead: <0.005 to <0.005 mg/l Selenium: <0.005 to <0.005 mg/l Total Arsenic: <0.005 to <0.005 mg/l Zinc: <0.01 to 0.022 mg/l Total Chromium: <0.03 to <0.03 mg/l Nickel: <0.002 to <0.002 mg/l				
Surface water quality at 4 Locations	pH: 7.28 to 7.52 ; DO: 4.4 to 5.5 mg/l and BOD: 2 to 3.6 mg/l. COD from 8 to 20 mg/l.				
Noise levels Leq (Day and Night)	<b>Core zone:</b> 59.1 to 69.8 Leq dB (A) for the day time and 50.2 to 59.1 Leq dB (A) for the Night time. <b>Buffer Zone:</b> 46.8 to 52.8 Leq dB (A) for the day time and 38.6 to 44.3 Leq dB (A) for the Night time.				
Traffic assessment study findings	Traffic study has been conducted at mine site which is near to the mine site. Transportation of mineral will be done 100 % by road.				
	Road	V (Volume in PCU/day)	C (Capacity in PCU/day)	Existing V/C Ratio	LOS

Period	Oct 2022 to Dec 2022				
	2 Lane Undivided (Two Way) of 10m Width (Subarterial)	56.4	900	0.0626	A (Represents a condition of free flow)
	PCU load after proposed project will be 2.35 (Existing) + 8.35(Additional) PCU/ hr and level of service (LOS) will be:				
	Road	V (Volume in PCU/day)	V (Volume in PCU/day)	Proposed V/C Ratio	LOS
	2 Lane Undivided (Two Way) of 10m Width (Sub arterial)	296.9	900	0.3298	B (Represents a zone of stable flow)
Note: Capacity as per IRC-106-1990 Guide line for capacity for roads. Conclusion: The level of service will 'B' after including additional traffic due to proposed project					
Flora and fauna	A site specific wildlife conservation plan is under preparation through TFRI.				
Water Requirement	<p>Source of Water:</p> <p>a) Surface water – Nil</p> <p>b) Ground water – 3139 KLD (mine dewatering)</p> <p>c) Other (if any) – 15 KLD (for potable use in mine through tube well).</p> <p>Ground Water Intersection:</p> <p>Pre-monsoon – 6.1 m to 10.40 m</p> <p>Post-monsoon – 3.0 m to 4.5 m</p> <p>Water Requirement:</p> <p>Ground water – 350 KLD (Industrial Use)</p> <p>Fresh water - 15 KLD (for potable use in mine through tube well).</p> <p>NOC (for surface water): NA</p> <p>NOC (Ground Water): Existing CGWA NOC for ground water extraction has been obtained vide no. CGWA/NOC/MIN/ORIG/2024/20084 dated 04.02.24 valid till 25/10/24. Renewal application has been submitted to CGWA vide application no. 21-4/7513/CT/MIN/2022 dated 24/10/24 and the same is issued vide NOC no – 11613 dated 14.05.2025 and valid till 25.10.2026.</p>				

**27.5.7: Water Requirement:** Proponent submitted that the total water requirement for the said mine is 365 KLD (350 KLD is being sourced from mine dewatering for industrial use and 15 KLD is being sourced from tube well for potable use). Excess mine water after treatment is being released in Jobja Nala for irrigation and local use.

Existing CGWA NOC for ground water extraction has been obtained vide letter no. CGWA/NOC/MIN/ORIG/2024/20084 dated 04.02.2024, which was valid up to 25.10.2024. Renewal application has been submitted to CGWA vide application no. 21-4/7513/CT/MIN/2022 dated 24.10.2024 and same is issued vide NOC no – 11613 dated 14.05.2025 and valid till 25.10.2026.

**27.5.8: Power Requirement and details of diversion of Hi-Tension/ Transmission Line:**  
Power requirement for the mine is 1800 Kw and the same is being sourced from Chhattisgarh state electricity board (CSEB). There is no diversion of Hi – tension / transmission line proposed for the said project and neither any of the HT Line has been diverted in past.

**27.5.9: Solid and Hazardous Waste:**

S. No.	Type of Waste	Source	Quantity	Mode of treatment	Disposal
1.	Used Oil / Burnt Oil (Schedule-I, Cat. No.- 5.2)	From underground mining equipment	1 KL / Annum	Stored in Hazardous waste storage room for auction to authorized recycler	Through authorized recycler
2.	Wastes or residues containing oil (Schedule-I, Cat. No.- 5.2)	From underground mining equipment	0.2 MT/Year	Stored in Hazardous waste storage room for auction to authorized TSDF.	Through authorized TSDF.
3.	Solid Waste	From domestic solid waste	14 TPA		organic waste, composting for plantation
4.	E – waste	from Computer hardware, electrical and electronics	0.15 TPA		Through authorized recycler
5.	Battery waste	from LED cap lamps and battery	0.03 TPA		Through authorized recycler

**27.5.10: Details of Public Consultation held on 28.12.2021 in accordance with Ministry's O.M. dated 16.02.2021:**

Title	Public Consultation through Paper publication (held in 2021)
Details of the Advertisement given	Public Notice has been published in 02 Newspapers (Hindustan Times and Haribhoomi) on 04.12.2021 for public consultation.
Date of Public Consultation	28.12.2021
Venue	NA, Public consultation was done through newspaper publication
Presiding Officer	NA, Public consultation was done through newspaper publication
Number of persons attended Hearing	NA, Public consultation was done through newspaper publication
Number of representations received in writing from the district and outside of district:	115
Major issues raised	Employment, Drinking water, Health facilities

Action plan as per MoEF&CC O.M. dated 30/09/2020.

S. No.	Physical activity and action plan	Year of implementation (Budget in Lakh)															Total Expenditure (in Rs Lakhs)
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

1.	Infrastructure creation for drinking water Supply	1	1	1	3	3	3	3	3	3	3	2	2	2	2	2	34
2.	Sanitation	3	3	3	4	4	4	4	4	4	4	5	5	5	4	4	60
3.	Education	2	2	2	3	3	4	4	4	5	5	5	5	4	2	2	52
4.	Skill Development	2	2	2	3	3	4	4	4	5	5	5	5	4	2	2	52
5.	Basic Health Infrastructure	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75
6.	Road Infrastructure	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	27
	<b>Total</b>																<b>300</b>

**27.5.11: EMP Budget:** It is a running mine. The capital cost of the proposed project, including the existing project capital cost is Rs. 3750 Lakhs and the capital cost for environmental protection measures is proposed as Rs. 225 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 597.29 Lakhs per year. The employment generation from the existing project is 365 nos.

The details of cost for environmental protection measures is as follows:

S. No.	Description of Item	Existing (in Lakh)		Proposed (In Lakh)	
		Capital Cost	Recurring	Capital Cost	Recurring
1	Air Pollution Control/ Noise Management	3.8	240	120	240
2	Water Pollution Control	147	50	30	50
3	Environmental Monitoring and Management	10	296.04	10	296.04
4	Green Belt & Plantation Development	3	5	40	5
5	Other heads as proposed in EIA/ committed during the EAC	9.135	6.25	25	6.25
<b>Total</b>		<b>172.935</b>	<b>597.29</b>	<b>225</b>	<b>597.29</b>

**27.5.12: Plantation:** Proposed greenbelt will be developed in approx. 20 ha on undisturbed area during monsoon 2025 which is about 4.89 % of the Mine lease area of 408.20. Post closure 7.5 ha will be afforested. Thus, total plantation will be 27.5 Ha of mine lease area 408.20 Ha i.e about 6.73% of the total mine lease area. A 10 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare.

**27.5.13: Rehabilitation and Resettlement (R&R):** Project involves PAPs – 467 and PAF – 0 with R&R cost of Rs. 182.135 Cr.

S. No.	Particulars	Status of R&R (as per the acquisition of land in 302.105 ha)
1.	No of Villages	03(Getra, Mani and Pondi)

S. No.	Particulars	Status of R&R (as per the acquisition of land in 302.105 ha)
2.	Total No of PAFs (Approx.)	0 (De-pillaring will not be done below the Habitation. Hence, no rehabilitation of families)
3.	Total No of PAPs	467
4.	Total Employment to be given (in Nos)	401
5.	Total No of employment given as on 01.04.2025	36
6.	Total Compensation to be given (in Crores)	182.135 cr
7.	Total amount of Compensation given as on 01.04.2025	0.295 Cr
8.	Status of Balance Employment	365
9.	Status of Balance Compensation amount	181.84 cr
10.	Status of R&R Site	De-pillaring will not be done below the Habitation. Hence, the R&R Site is not required.

**27.5.14: Project Cost:** Capital cost of existing project is Rs. 3525 Lakhs and additional capital cost for the project will be Rs. 225 Lakhs. Capital cost for environmental protection measures is proposed as Rs. 225 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 597.29 Lakhs per year.

**27.5.15: Details of pending litigation:** There is no legal issues / violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

**27.5.16: Undertaking and Affidavit:** PP submitted the following through an affidavit:

- This is to undertake with respect to **Rehar UG Mine that there is no construction/mining done at the site or the construction done without any deviation as per the EC obtained.**
- This is to undertake with respect to **Rehar UG Mine that there is no litigation on the project either at Hon'ble NGT or anyother court of Law.**
- This is to undertake with respect to **Rehar UG Mine that there is no difference in the documents submitted i.e., Form 1, Mining Plan, EIA/EMP report and presentation being made to the EAC.**
- This is to undertake that the Project Proponent owns the contents (information and data) of the EIA report pertaining to **Rehar UG Mine. Also it is declare that the contents of EIA report pertaining Rehar UG mine have not been copied from other EIA reports.**
- This is to undertake with respect to **Rehar UG Mine that the project is being submitted for grant of revalidation of EC under the provisions of S.O. 1530E dated 06.04.2018.**
- This is to undertake with respect to **Rehar UG Mine that the land has been acquired as per provisions of Coal Bearing Areas (Acquisition and Development) Act 1957 vide Gazette notification S.O. No. 1076 dated 17/04/1999 for mining rights and vide Gazette notification S.O. No. 2214 dated 23.09.17 for Surface**

**rights. Further it is declare that the land is in our possession and there is no R&R issue.**

Further, vide an Undertaking, PP submitted that the information provided in Form-I in physical form and in .pdf format in PARIVESH, to the Ministry/EAC members and PPT presentation during the EAC meeting to be held on 3rd April 2025 have no deviation in respect of the Proposal No. IA/CG/CMIN/26364/2002 for EC revalidation for coal mining having 424.70 ha of ML area and capacity of 0.31 MTPA for Coal Mine Project located at village Getra; Tehsil: Surajpur, District: Surajpur; State: Chhattisgarh; by M/s South Eastern Coalfields Limited (SECL). It further certified that there are no data entry errors in the information uploaded in PARIVESH system including names/email-id/mobile numbers/address of the project proponent, authorized person, etc. It is also certified that the supporting documents uploaded on PARIVESH portal are correct and duly authenticated by the Authorized Signatory. In case of any deviation in data found in any of the documents, the Authorized Signatory shall be held responsible and furthermore, the above said project shall be rejected for grant of EC.

**27.5.17: ADS Reply:** The proposal was initially considered in 40<sup>th</sup> meeting of EAC (Coal) held on 26.10.2018. Proposal was deferred for want of additional information. The proponent submitted the ADS reply vide letter dated 20.02.2024, uploaded on PARIVESH on 20.02.2024 and ADS was raised for submission of CCR along with complete documents.

The proponent submitted the ADS reply vide letter dated 04.03.2025, uploaded on PARIVESH on 04.03.2025.

The proponent submitted the ADS reply vide letter dated 23.05.2025, uploaded on PARIVESH on 23.05.2025. Point-wise reply of ADS is as below –

S. No.	Information desired vide MoM of 40 <sup>th</sup> EAC	Compliance Status
1.	Public consultation, including public hearing, shall be conducted through concerned SPCB as per the provision/procure contained in the EIA Notification, 2006 for information of stakeholders about the present coal mining operations inviting comments and their redressal.	Public Notice has been published in 02 Newspapers on 04.12.2021 for public consultation. The objections and suggestions of villagers received in writing through the Regional Officer, Chhattisgarh Environment Conservation Board, Ambikapur and Action Taken report was submitted to Regional Officer, CECB Ambikapur on 31.12.2021. the proceedings of the public consultation process has been submitted to Director, MoEF&CC, Impact Assessment Division, Indira paryawaran Bhawan, New Delhi vide letter No. 3123/तक./मु./तक./छ.ग.प.सं.मं./2022 नवा रायपुर, अटल नगर Dated: 27.07.2022 by CECB Raipur.
2.	Valid Mining Plan and the Progressive Mine Closure Plan duly approved by the competent authority.	Revised approved Mining Plan along with approved progressive Mine closure plan for 0.31 MTPA approved vide letter no. SECL/BSP/CAD/275 <sup>th</sup> CoFD EXT/24-25/1985 Dtd; 22.02.2025: (Item no. 275.05).
3.	Compliance status of the conditions stipulated in the Environmental Clearance from the	Inspection for Certified Compliance report of conditions stipulated in the Environment Clearance has been done on 01.02.2024. CCR submitted by the Member Secretary, Chhattisgarh Environment Conservation Board (SPCB) on 21.11.2024.

S. No.	Information desired vide MoM of 40 <sup>th</sup> EAC	Compliance Status			
	concerned Regional Office of the Ministry.				
4.	Consent to operate from the State Pollution Control Board for the present mining operations.	Consent to Operate has been accorded by CECB, Raipur vide letter no 4496/TS/CECB/ 2024 Nava Raipur Atal Nagar, Dated: 27.08.2024 and is valid up to 26.08.2025.			
5.	Redressal of issues raised during the last public hearing conducted by the SPCB.	Public hearing conducted on 07.08.1999. Compliance and ATR of issues raised during public hearing is attached as latest ATR is included in EIA/EMP report which is submitted.			
6.	Coal Production realized from the mine from 1993-94 vis-à-vis capacity stipulated in the environment clearance.	The details of Coal production realized since the inception of mine and upto Feb 2025.			
		Year	Actual Coal Production in MTPA	EC / Consent Capacity	Excess production
		1999-00	0.027	0.24	0
		2000-01	0.071	0.24	0
		2001-02	0.084	0.24	0
		2002-03	0.114	0.31	0
		2003-04	0.130	0.31	0
		2004-05	0.241	0.31	0
		2005-06	0.229	0.31	0
		2006-07	0.247	0.31	0
		2007-08	0.265	0.31	0
		2008-09	0.260	0.31	0
		2009-10	0.291	0.31	0
		2010-11	0.310	0.31	0
		2011-12	0.281	0.31	0
		2012-13	0.276	0.31	0
		2013-14	0.248	0.31	0
		2014-15	0.250	0.31	0
		2015-16	0.206	0.31	0
		2016-17	0.254	0.31	0
		2017-18	0.187	0.31	0
		2018-19	0.138	0.31	0
		2019-20	0.126	0.31	0
		2020-21	0.115	0.31	0
		2021-22	0.096	0.31	0
		2022-23	0.073	0.31	0
2023-24	0.031	0.31	0		
2024-25	0.0328	0.31	0		
7.	Need assessment survey for the activities proposed under the CSR and the comprehensive plan to be prepared accordingly for implementation by the project proponent. Also, impact of the CSR activities undertaken at an interval of 5 years to be evaluated and a	Need based assessment survey for activities proposed under CSR is submitted.			

S. No.	Information desired vide MoM of 40 <sup>th</sup> EAC	Compliance Status												
	report to be submitted.													
8.	Stage-I/Renewal of Forest clearance under the Forest (Conservation) Act, 1980, as the case may be, of the forest land involved in the project.	<p>Stage – II Forest clearance has been obtained vide letter no. 8-90/99-FC dt. 27.09.2000.</p> <p>The FC is granted combined for Rehar UG Mine and Gayatri UG Mine for Forest land of 547.012 ha. Bifurcation of Forest land is tabulated below:-</p> <table border="1"> <tr> <th>S.N.</th><th>Name of Mine</th><th>Forest land (in Ha)</th></tr> <tr> <td>1.</td><td>Rehar UG Mine</td><td>130.240 Ha</td></tr> <tr> <td>2.</td><td>Gayatri UG</td><td>416.772 Ha</td></tr> <tr> <td colspan="2"><b>Total Forest Land</b></td><td><b>547.012 Ha</b></td></tr> </table> <p>Copy of FC is submitted.</p>	S.N.	Name of Mine	Forest land (in Ha)	1.	Rehar UG Mine	130.240 Ha	2.	Gayatri UG	416.772 Ha	<b>Total Forest Land</b>		<b>547.012 Ha</b>
S.N.	Name of Mine	Forest land (in Ha)												
1.	Rehar UG Mine	130.240 Ha												
2.	Gayatri UG	416.772 Ha												
<b>Total Forest Land</b>		<b>547.012 Ha</b>												
9.	Details of court cases and the compliance status.	No court case. Undertaking is submitted.												

The proponent submitted the ADS reply vide letter dated 11.03.2025, uploaded on PARIVESH on 12.03.2025. Point-wise reply of ADS is as below –

S. No.	Desired Information in ADS	Compliance Status
1.	With respect to the ADS reply no – 3, PP is supposed to submit the certified compliance report from Regional Office of MOEF&CC. However, the same has not been submitted by the proponent. It is requested to submit the same.	<ul style="list-style-type: none"> <li>Inspection for Certified compliance report of conditions stipulated in EC has been done by Scientist-E of IRO, MoEF&amp;CC Naya Raipur on 01.02.2024.</li> <li>However, Scientist-E of IRO, MoEF&amp;CC Raipur vide letter no. IRO RPR/ENV/MISC/03/2024/1572 dated-15.02.2024 has sought clarification / advice on validity of EC and MoM of the 40<sup>th</sup> EAC meeting for issuing Certified Compliance report in EC re-validation cases.</li> </ul> <p>In reply to the clarification sought by Scientist ‘E’, the Member Secretary EAC through email dtd. 28.03.2024 has requested IRO, MoEF&amp;CC Naya Raipur to expedite issuance of CCR and in the mean while the clarification is under examination at the Ministry.</p> <ul style="list-style-type: none"> <li>Based on this email from MS, EAC, the RO MoEF&amp;CC Naya Raipur was again requested through email dated: 28.03.2024 for issuance of CCR.</li> <li>An email was sent to RO, MoEF&amp;CC, Raipur for issuance of CCR report on 01.03.2024 &amp; 16.04.2024.</li> <li>The RO, MoEF&amp;CC was again requested for issuance of CCR vide letter No. 28 dtd. 06.05.2024. The CCR report from IRO, MoEF&amp;CC Raipur is awaited till date.</li> <li>In absence of report from RO, MOEF&amp;CC and as per directives of MoEF&amp;CC vide OM no. IA3-22/10/2022-IA.III [177258] dtd. 08.06.2022, Member Secretary of Chhattisgarh Environment Conservation Board (SPCB) was requested for issuance of Certified Compliance report of EC Conditions vide letter no. 66 Dtd:</li> </ul>

S. No.	Desired Information in ADS	Compliance Status
		<p>27.06.2024 (Copy submitted).</p> <ul style="list-style-type: none"> <li>• Therefore, after completion of inspection from SPCB, the Member Secretary of SPCB i.e. Chhattisgarh Environment Conservation Board has issued Certified Compliance report of EC Conditions pertaining to Rehar UG Mine vide letter no. 7402 Dtd: 21.11.2024.</li> <li>• The CCR report issued by the Member Secretary, CECB Raipur is attached with this reply.</li> <li>• Above communications are attached as with the reply</li> </ul>
2.	Further, the covering has been signed by the Area General Manager of the mine wherein the name of the signing officer is missing. It is requested to rectify the above and thereafter the proposal shall be submitted.	The name of the signing authority included in this covering letter.

The proponent submitted the ADS reply vide letter dated 23.05.2025, uploaded on PARIVESH on 23.05.2025. Point wise reply of ADS is given as below:

S.No.	Desired information/details	Compliance Status												
1	Project Proponent shall submit an undertaking with respect to the mining done in forestland, that the mining in the forestland involved in this mine is only restricted to 70.39 Ha of forestland, against the forest clearance accorded for 130.240 Ha of forestland for Rehar Underground Coal Mining Project. Project Proponent shall also submit the geo-tagged photographs of the remaining forest land of 59.85 ha along with the measures adopted for protection of the same.	<p>An undertaking w.r.t to the mining done in forest land, that the mining in the forest land is only restricted to 70.39 Ha of Forest land in Phase – 1 against the forest clearance accorded for 130.240 Ha for Rehar UG coal Mine has been submitted.</p> <p>The geo-tagged photographs of the remaining forest land of 59.85 ha have been submitted and for protection of the same following measures to be adopted:</p> <table border="1"> <thead> <tr> <th>Activities</th><th>Description</th><th>Timeline/ Periodicity</th></tr> </thead> <tbody> <tr> <td>Forest Mapping &amp; Monitoring (GIS/Satellite)</td><td>Use of technology to track forest cover and illegal activities.</td><td>Once in 2 years</td></tr> <tr> <td>Afforestation / Gap plantation Drives</td><td>Tree plantation on degraded forest land.</td><td>Start in monsoon season; every year</td></tr> <tr> <td>Implementation of WLCP through State Govt.</td><td>WLCP is being prepared at TFRI (ICFRE) and address the conservation of forest ecosystem.</td><td>2 year and implementation for next 10 year</td></tr> </tbody> </table>	Activities	Description	Timeline/ Periodicity	Forest Mapping & Monitoring (GIS/Satellite)	Use of technology to track forest cover and illegal activities.	Once in 2 years	Afforestation / Gap plantation Drives	Tree plantation on degraded forest land.	Start in monsoon season; every year	Implementation of WLCP through State Govt.	WLCP is being prepared at TFRI (ICFRE) and address the conservation of forest ecosystem.	2 year and implementation for next 10 year
Activities	Description	Timeline/ Periodicity												
Forest Mapping & Monitoring (GIS/Satellite)	Use of technology to track forest cover and illegal activities.	Once in 2 years												
Afforestation / Gap plantation Drives	Tree plantation on degraded forest land.	Start in monsoon season; every year												
Implementation of WLCP through State Govt.	WLCP is being prepared at TFRI (ICFRE) and address the conservation of forest ecosystem.	2 year and implementation for next 10 year												
2.	Project Proponent shall submit Wildlife Conservation Plan for the Schedule – I species identified in the study area as approved by the CWLW.	Wildlife conservation plan for Rehar UG Mine is under preparation at Tropical Forest Research Institute, Jabalpur.												
3.	Project Proponent shall submit the approved Mining Plan and Mine Closure Plan for the project area of 424.70 Ha as per the EC accorded by the	<p>Approved Mine plan along with Mine closure plan for the project area of 424.70 Ha (ML area of 408.20 Ha) as per the EC is submitted.</p> <p>Rehar UG Mine was approved by the committee of functional Directors (CoFD) of SECL in their 275th meeting held on 20th</p>												

S.No.	Desired information/details	Compliance Status			
	Ministry.	February, 2025, vide letter dated 22.02.2025.			
4.	Project Proponent shall submit the details of the source due to which there is high concentration of particulate matter in the core zone of the said mines (despite the fact it is an underground mine) along with the time bound action plan for the mitigation measures to be followed for the same shall be submitted.	The concentration of particulate matter in core zone is provided below:			
		Name of station	PM10 (µg/m³)		Prescribed standard (µg/m³) - GSR 742E
			Min	Max	
		Mine Office Rehar	141	189	300
		The particulate matter values are well within the prescribed limit as per GSR 742E (Coal mining standard, CPCB). The sources of pollutions and corresponding control measures are provided below:			
		Activities	Control measures		
		Coal unloading from overhead bunker to tippers	Water spraying arrangement		
		Coal unloading to stock	Water spraying arrangement, Fixed sprinklers (3 nos.)		
		Coal stock	Fixed sprinklers (3 nos.)		
		Coal loading from stock to tippers	Fixed sprinklers (2 nos.)		
Coal transportation	Fixed sprinklers (2 nos.) and mobile tanker (12KL)				
	Note: In future additional 10 fixed sprinklers to be commissioned by Oct-2025. Coal unloading from overhead bunker to tippers will further reduce dust generation.				
5.	Project Proponent shall install 1 nos of CAAQMS by April 2025.	One no's. of CAAQMS has been installed in proximity (~1.2 km from mine office) of Rehar UG Mine.			
6.	Project Proponent shall submit the present status of CGWA renewal for withdrawal of ground water.	The renewal NOC from CGWA has been granted vide NOC no – 11613 dated 14.05.2025 and valid till 25.10.2026.			
7.	The Project Proponent shall introduce measures to strengthen the Primary Healthcare Centers and Community Healthcare Centres within 10 km from the ML area and shall accordingly update the budget of action plan submitted for public consultation issues and the updated action plan with physical and financial targets shall be submitted.	The measures proposed to be undertaken to strengthen the Primary Healthcare Centers and Community Healthcare Centers are submitted with a budget of approximately Rs. 42 lakhs.			
8.	Project Proponent shall plant at least 50,000 nos of trees during the onset of monsoon 2025.	Undertaking for plantation of 50,000 no's of trees during the onset of monsoon 2025 and it will be executed in the monsoon 2025.			
9.	Proponent shall submit a clarification regarding time frame maintained between the advertisement given for public	Public Notice through newspaper notification was done on – 04/12/2021. Further, CECB desired replies of objections raised vide 1621 dated 29.12.2021. As desired, SECL had submitted all responses of the written objections on 31.12.2021. Further, no			

S.No.	Desired information/details	Compliance Status
	consultation and date of public consultation as the 30-day notice period has not been followed for the public consultation held on 28/12/2021.	more representations were received from CECB within 30 days of notification and final proceedings of the public consultation process was submitted to the IA division, MoEF by CECB vide letter no – 3124 dated 27.07.2022.

**27.5.18: Written Submission:** PP submitted the following information during the meeting:

S. no.	Observations	Response of PP				
1.	Land Use details of the Mine.	Pre – Mining Land use pattern				
		S. No.	Land Use	Within ML area	Outside ML Area	Total (in ha)
		1.	Agricultural Land	302.105	-	302.105
		2.	Forest land	70.390	-	70.390
		3.	Govt. land	35.705	-	35.705
		4.	Other	-	-	-
		Total		408.20	-	408.20
		Post – mining land use pattern				
		S. No.	Type	Reclaimed Area (in ha)	Undisturbed (in ha)	Total Area (in ha)
		1.	Excavation / UG Mining Area	-	400.7	400.7
		2.	Mine infrastructure / Mine entries/	7.5	-	7.5
			Total	7.5	400.7	408.20
2.	Revised Budget on PH redressal.	PP submitted the same.				
3.	Revised plan for strengthening PHCs and CHCs.	S. No.	Activity to be done to strength PHC & CHC	Expected Timeline	Apprx. Financial Budget (In Lakhs)	
		1.	Supply of Medicines to PHCs & CHCs	December 2025	Rs. 15.00	
		2.	Basic medical equipment’s to strengthen CHCs & PHCs	May 2026	Rs. 15.00	
		3.	Roof Top Solar	May 2026	Rs. 35.00	
		4.	Sanitary pad vending machine	September 2025	Rs. 0.50	
		5.	RO With Water cooler	September 2025	Rs. 0.80	
		6.	Renovation of Existing Sanitary System in PHC & CHC	January 2026	Rs. 5.70	

		7.	Rain Water harvesting Structures	March 2026	Rs. 3.00
		<b>TOTAL AMOUNT</b>			<b>Rs. 75.00</b>
4.	Undertaking for submission of Wildlife conservation plan.	PP submitted and undertaking that, WLCP is under preparation and the same will be completed within a period of approximately 3 months.			

**Observation and deliberation of the EAC:**

**27.5.19: The Committee noted the following:**

1. Rehar Underground Coal mine project of M/s South Eastern Coalfields Limited is within an area of 424.70 Ha having the production capacity of 0.31 MTPA is located at village: Getra; Tehsil: Lakhanpur; District Surguja; State: Chhattisgarh.
2. The instant project accorded environment clearance vide letter no. J-11015/25/2000-IA-II(M) dated 27.11.2002, under the provisions of EIA Notification, 1994, for the production capacity of 0.31 MTPA within an area of 424.70 Ha.
3. The instant proposal is for revalidation of EC obtained vide letter dated 27.11.2002, under the provisions of S.O. 1530(E), dated 06.04.2018 read with OM dated 16.02.2021, by reducing the ML area from 424.70 Ha to 408.20 Ha.
4. PP applied for revalidation of EC in PARIVESH Portal on 04.09.2018, i.e., well within the window period of 6 months (i.e. before 5.10.2018) and also submitted Form-1 as required under S.O 1530(E) dated 06.04.2018 for the re-validation of EC under EIA Notification 2006 (as amended).
5. Committee observed that the said project was earlier apprised in 40<sup>th</sup> EAC meeting held on 26.10.2018 and 23<sup>rd</sup> EAC meeting held on 03.04.2025. Proposal was deferred for want of additional information. PP submitted the same vide letter dated 20.04.2024 and 03.04.2025 on the PARIVESH 1.0 Portal.
6. Committee observed that the coal produced from the said mines is well within the EC capacity and there is no excess production.
7. Committee deliberated on the certified compliance report obtained by the PP. Committee observed that status of compliance of earlier EC was obtained from Regional office of Chhattisgarh Environment Conservation Board (SPCB) vide letter no – 1866 dated 24.10.2024 in name of M/s Rehar Underground mine and subsequently forwarded by the Member secretary of CECB vide no – 7402 dated 21.11.2024. The action taken report regarding the complied / partially complied / non – complied conditions has been submitted to Regional Officer, Chhattisgarh Environment Conservation Board vide – SAM / RGK / 2024 / 485 dated 16.12.2024. There was one partially complied condition, regarding setting up the environmental laboratory in consultation with SPCB, for which the PP has submitted that Environment Lab at Area Level has been set up.

8. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018.
9. The instant project involves 70.39 ha of forestland and the Stage – II forest clearance on the same has been accorded vide letter dated 27.09.2000. No forestland has been broken up till date and there is no violation of Van (Sanrakshan Evam Samvardhan), Adhiniyam, 1980. Committee sought clarity with respect to the forestland being used for the instant project, that only 70.39 ha has been used for underground mining and the remaining forestland will be used only in expansion (Phase – II). PP submitted the same.
10. The project is not located within 10 km of any ESZ /ESA / national park / wild life sanctuary / biosphere reserve / tiger reserve / elephant reserve / tiger corridor / elephant corridor etc. The project involves Schedule – I species and the Wildlife Conservation Plan is under preparation. Committee sought clarification as to why the plan is not yet prepared as the EC was originally granted in the year 2000. PP submitted that, during that time there were no Schedule – I species present in the study area. However, while preparation of EIA/ EMP report under the provisions of S.O. 1530E dated 06.04.2018, the Schedule – I species were observed in the study area and accordingly the WLCP is under preparation. Committee sought an Undertaking in this regard, for which PP submitted that, the WLCP is under preparation by Tropical Forest Research Institute (TFRI) and the same will be completed within a period of approximately 3 months.
11. Mine Plan of Rehar UG Mine was approved by the committee of functional Directors (CoFD) of SECL in their 275<sup>th</sup> meeting held on 20<sup>th</sup> February, 2025, vide letter dated 22.02.2025. Committee observed that the earlier EC was granted for 424.70 ha ML area, out of which 408.20 Ha is the mine lease area and remaining 16.50 Ha area is outside ML area on which mine colony and other infrastructure is established. Mine incline and mine related infra is part of 408.20 Ha only. PP submitted that mine lease area will be restricted to 408.20 Ha only. Accordingly Committee opined that the EC shall be given for 408.20 Ha only.
12. Method of mining proposed is underground coal mining with bord and pillar method and a combination of LHD, UDM and belt conveyor combination. The geological reserves are reported to be 15.76 MT and mineable reserves are 7.346 MT, out of which the extractable reserves are 4.508 MT (as on 01.04.2024). Percentage of extraction is 61.36%. Life of mine is 16 years as on 01.04.2024.
13. Committee deliberated on the method of transportation of coal being used in the said project. The Committee observed that the coal from in-pit to surface bunkers is being transported through series of conveyor belts. From bunkers to Bishrampur/ Kumda siding, the coal is being transported using tarpaulin covered trucks. The same is being done using public roads at the approximate distance of 21 km. Coal from railway siding is being loaded by payloaders. Coal to the small users is being directly transported through trucks/ tippers. Committee observed that entire coal outside the project area is being transported by road using tarpaulin covered trucks and tippers. However, as the production from the said mine is low, currently, the coal is being transported only through road.

14. Committee deliberated on the baseline data submitted by the PP and observed that, despite the fact that this particular mine is underground mine, particulate matter is high in core zone. Committee sought the details of the mitigation measures being undertaken for the same and further proposed. PP submitted the measures being undertaken and further proposed to commission 10 additional fixed sprinklers by October 2025.
15. Committee deliberated on the water requirement of the said mines and observed that, the total water requirement for the said mine is 365 KLD (350 KLD is being sourced from mine dewatering for industrial use and 15 KLD is being sourced from tube well for potable use). Excess mine water after treatment is being released in Jobja Nala for irrigation and local use. The renewal NOC from CGWA has been obtained vide NOC no – 11613 dated 14.05.2025 and valid till 25.10.2026.
16. Power requirement for the mine is 1800 Kw and the same is being sourced from Chhattisgarh state electricity board (CSEB). There is no diversion of Hi – tension / transmission line proposed for the said project and neither any of the HT Line has been diverted in past.
17. Committee observed that, advertisement for public consultation through written submissions was given in accordance to Ministry's OM dated 16.02.2021, in 2 newspapers namely, Hindustan Times and Haribhoomi on 04.12.2021. As per the letter received from CECB, there were 115 written representations received from the public with the major concerns relating to employment, drinking water and health facilities.
18. Committee deliberated on the action plan submitted by the PP for addressing the public consultation concerns. PP submitted an action plan for the same for the next 15 years with the budgetary provisions of Rs. 300 Lakhs. Committee also deliberated on the time bound action plan submitted by the PP for strengthening of primary health centres and community health centres in the study area and opined that the following shall be implemented in a time bound manner.

S. No.	Activity to be done to strengthen PHC & CHC	Expected timeline	Approximate financial budget (in Rs. Lakhs)
1.	Supply of Medicines to PHCs & CHCs	December 2025	15
2.	Basic medical equipment's to strengthen CHCs & PHCs	May 2026	15
3.	Roof Top Solar	May 2026	35
4.	Sanitary pad vending machine	September 2025	0.50
5.	RO With Water cooler	September 2025	0.80
6.	Renovation of Existing Sanitary System in PHC & CHC	January 2026	5.70
7.	Rain Water harvesting Structures	March 2026	3
	<b>TOTAL</b>		<b>75</b>

19. In pursuant to OM dated 16.02.2021, PP also submitted that there has been no change in mining namely mining method, mining plan, mineral transportation, water requirement, reclamation plan after obtaining EC for production capacity of 0.31 MTPA.

20. Committee further observed that, capital cost proposed including the existing cost is Rs. 3750 Lakhs and the capital cost for environmental protection measures is proposed as Rs. 225 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 597.29 Lakhs per year. Committee opined that the same shall be efficiently implemented in a time – bound manner.
21. Committee deliberated on the plantation activities done by the PP till date and observed that, proposed greenbelt will be developed in approx. 20 ha on undisturbed area during monsoon 2025 which is about 4.89 % of the Mine lease area of 408.20. Post closure 7.5 ha will be afforested. Thus, total plantation will be 27.5 Ha of mine lease area 408.20 Ha i.e about 6.73% of the total mine lease area. A 10 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare.
22. Committee found the plantation developed to be poor and opined that, PP shall focus on agro-forestry and fruit bearing species shall be distributed and planted on the periphery of the agricultural farms of the villagers, by developing a plan to compensate the farmers/ villagers for survival of these fruit bearing trees. Plantation shall also be developed on both the sides of the coal transportation road with the native species. Committee opined that PP shall plan at least 50,000 nos of trees on the onset of monsoon season of 2025.
23. Committee deliberated on the R&R Plan for the said mine and observed that there are 3 nos of villages, namely Getra, Mani and Pondi. There are no PAFs involved in the project, as it is an underground mine and De-pillaring will not be done below the habitation. However, there are 467 PAPs involved in the project, out of which employment is to be given to 401 PAPs. 36 nos of PAPs have already been given employment as on 01.04.2025. Remaining 365 nos of PAPs are yet to be given the employment.
24. There is no legal issues / violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.
25. Committee opined that the PP shall align its activities with the sustainable development goals.
26. The EAC also deliberated on the ADS reply and written submissions of the project proponent and found it satisfactory.
27. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

**Recommendations of the Committee:**

**27.5.20:** In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of revalidation of EC dated 27.11.2002 as per

provisions of S.O. 1530(E) dated 06.04.2018 read with OM dated 16.02.2021. Grant of revalidation of EC is subject to the compliance of the following specific conditions and standard conditions in addition to the conditions granted in earlier EC:

**Specific Conditions:**

1. Project Proponent shall treat the excess mine seepage water and reuse the same to reduce the fresh water consumption. The excess treated mine seepage water if any shall be released in to the Jogpa nallah with prior approval from CECB for irrigation purposes as proposed.
2. Only 70.39 Ha of forestland shall be utilized for mining activities in the instant project, against the 130.24 Ha of forest clearance accorded in the name of Rehar UG. PP shall clearly demarcate the 59.850 Ha of forestland, in consultation with the State forest department, not included in the instant proposal. All officers, supervisors, overman, mate, workers, operators, persons employed in the mine should be made aware about the unutilised forestland and its boundaries so that there is no disturbance of the same.
3. Project proponent shall obtain the Wildlife Conservation Plan approved by the PCCF (Wildlife). The final Wildlife conservation plan duly approved by the CWLW shall be submitted to RO, MoEF&CC within a time frame of three months from the date of grant of revalidation of EC and the budget approved by the concerned authority shall be deposited in government account.
4. PP shall monitor the subsidence and take necessary measures/ steps for filling the subsidence area as per subsidence plan.
5. The budget proposed for Public Hearing is Rs 300 Lakhs. The budget proposed shall be kept in a separate account and shall be audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 15 years from the date of grant of revalidation of EC. PP shall submit the progress report regarding the implementation of the action plan to concerned RO along with the six-monthly compliance report.
6. Project proponent shall implement the following action plan to strengthen the primary health centres and the community health centres within the study area in a time bound manner:

S. No.	Activity to be done to strengthen PHC & CHC	Expected timeline	Approximate financial budget (in Rs. Lakhs)
1.	Supply of Medicines to PHCs & CHCs	December 2025	15
2.	Basic medical equipment's to strengthen CHCs & PHCs	May 2026	15
3.	Roof Top Solar	May 2026	35
4.	Sanitary pad vending machine	September 2025	0.50
5.	RO With Water cooler	September 2025	0.80
6.	Renovation of Existing Sanitary System in PHC & CHC	January 2026	5.70
7.	Rain Water harvesting Structures	March 2026	3
	<b>TOTAL</b>		<b>75</b>

7. Project proponent shall implement the protective measure proposed in Environment

Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs 225 Lakhs (Capital) and Rs 597.29 Lakhs per annum (recurring) and should be kept in separate accounts and audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office for the activities carried out during the previous year.

8. Total plantation by the end of the mine life shall be done in atleast 20.82 Ha of ML area. Apart from this agro forestry and community plantation shall be carried out on the land purchased for surface rights. Dense plantation shall also be carried out on both the sides of coal transportation roads. Plantation shall be done with the native species.
9. 50,000 plants shall be planted in the monsoon of 2025 itself. Project proponent shall also, distribute fruit bearing species to the local villagers and farmer to plant on their lands and shall compensate them for maintaining their survival. Apart from this, intensive gap plantation of suitable local species with saplings of not less than 2 meter height, shall be done along with construction of water harvesting structures on watershed treatment basis in the forest area for which the Stage - II FC has been obtained or to be obtained under Van (Sanrakshan Evam Samvardhan), Adhiniyam, 1980 for underground mining with the help of forest department within one year of issue of the revalidation. Avenue plantation shall be done along the coal transportation road, with local native species with saplings of not less than 2 meter height.
10. 10 additional fixed sprinklers shall be commissioned by October 2025 in the core zone, in order to mitigate the pollution being caused due to mining related activities.
11. 365 nos of project affected persons, who are yet to be given employment as the part of R&R plan shall be provided with the same within a period of 1 year from the date of grant of revalidation of EC.
12. Proponent shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.
13. Project Proponent shall ensure that all types of plastic waste generated from the mines shall be stored separately in isolated areas and disposed of strictly adhering to the Plastic Waste Management Rules 2016. In pursuant to the Ministry's OM dated 18/07/2022, PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of the Ministry's Notification published by the Ministry on 12/08/2021. A report along with the photographs of the measures taken shall also be included in the six monthly compliance reports being submitted by PP.
14. PP should establish an Environment Management Cell at its mines in order to make sure that all the compliances related to environment are being complied efficiently. PP should conduct the monthly review meeting with the environment management cell shall be carried out at mine level and quarterly at with environment management committee of the company. The record of the same shall be maintained.
15. The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project.

16. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
17. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation.
18. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/Regulations or Statutes, as applicable, to the project.
19. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
20. Validity of EC is as per the para 9 of EIA Notification 2006 read with its subsequent amendment dated 12th April 2022.
21. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
22. The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of Common Cause Vs Union of India & others.
23. The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology in strict compliance of the judgment of Hon'ble Supreme Court. This environmental clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements.
24. All other conditions stipulated in EC dated 27.11.2022 shall remain the same.

**General Instructions:**

- a. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC website where it is displayed.
- b. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.
- c. The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental forest / wildlife norms/conditions.
- d. Action plan for implementing EMP and environmental conditions along with

responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

- e. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- f. The Regional Office of this MoEF&CC shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.

**Agenda Item No. 27.6:**

**27.6: Katkona Underground Coal Mine Project [reduction in ML area from 1130.929 Ha to 1052.479 Ha having production capacity of 0.36 MTPA] by M/s South Eastern Coalfields Limited located at villages: Murma & Katkona; Tehsil: Baikunthpur; District: Korea; State: Chhattisgarh – Revalidation of Environmental Clearance based on ADS reply with reduction in ML area – reg.**

**[Online Proposal No. IA/CG/CMIN/7909/2005; Consultant: CMPDIL - NABET/EIA/22-25/SA 0223 valid up to 07.07.2025]**

**27.6.1:** M/s South Eastern Coalfields Limited has made an online application vide proposal no. IA/CG/CMIN/7909/2005 dated 08.09.2018 along with copy of EIA/EMP report, Form, Certified compliance report and sought for revalidation of Environment Clearance (EC) accorded to Katkona Underground Coal Mine Project vide letter no. No.J-11015/219/2005-IA.II(M), dated 20.06.2006 for production capacity of 0.36 MTPA Ha under the EIA Notification, 1994. The instant proposal is for obtaining re-validation of EC under EIA Notification, 2006, in compliance of the Gazette Notification S.O. No. 1530(E) dated 06/04/2018, for existing project with reduced ML area i.e., from 1130.929 Ha to 1052.479 Ha.

The proposal was initially considered in 40<sup>th</sup> meeting of EAC (Coal Mining Sector) held on 26.10.2018. Proposal was deferred for want of additional information. Proponent submitted the additional information on 28.03.2025 and 25.05.2025 on Parivesh 1.0 portal. The project is now again placed before the EAC for consideration on 18.06.2025.

**Details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meeting, are given as under:**

**27.6.2: Previous Approvals in chronological order:** PP submitted the details of previous approvals in the chronological order as follows:

S. No.	Details of Letter No.	EC/Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of issuance	Status of implementation
1	No.J-11015/219/2005-IA.II(M)	EC under EIA Notification, 1994	0.36	1130.929	20.06.2006	Implemented

W.r.t the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from 1974 onwards. CTO renewal has been obtained from the SPCB and is valid up to 31.10.2025 Details of the same are as follows:

Year	EC Sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production the EC sanctioned capacity
1974-1975	-	0.066900	NIL
1975-1976	-	0.128500	NIL
1976-1977	-	0.138250	NIL
1977-1978	-	0.134500	NIL
1978-1979	-	0.138700	NIL
1979-1980	-	0.161500	NIL
1980-1981	-	0.186050	NIL
1981-1982	-	0.202300	NIL
1982-1983	-	0.200700	NIL
1983-1984	-	0.206082	NIL
1984-1985	-	0.200200	NIL
1985-1986	-	0.192001	NIL
1986-1987	-	0.172000	NIL
1987-1988	-	0.170250	NIL
1988-1989	-	0.189800	NIL
1989-1990	-	0.211500	NIL
1990-1991	-	0.220550	NIL
1991-1992	-	0.212701	NIL
1992-1993	-	0.212750	NIL
1993-1994	-	0.228505	NIL
1994-1995	-	0.224660	NIL
1995-1996	-	0.235364	NIL
1996-1997	-	0.277817	NIL
1997-1998	-	0.289975	NIL
1998-1999	-	0.293111	NIL
1999-2000	-	0.252912	NIL
2000-2001	-	0.258225	NIL
2001-2002	-	0.270749	NIL
2002-2003	-	0.285766	NIL
2003-2004	-	0.263655	NIL
2004-2005	-	0.273107	NIL
2005-2006	-	0.289068	NIL
2006 -2007	0.36 MT	0.291002	NIL
2007 -2008	0.36 MT	0.265806	NIL
2008 -2009	0.36 MT	0.252250	NIL
2009 -2010	0.36 MT	0.252450	NIL
2010 -2011	0.36 MT	0.302760	NIL
2011 -2012	0.36 MT	0.333650	NIL
2012 -2013	0.36 MT	0.291640	NIL

Year	EC Sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production the EC sanctioned capacity
2013 -2014	0.36 MT	0.225515	NIL
2014 -2015	0.36 MT	0.235905	NIL
2015 -2016	0.36 MT	0.246050	NIL
2016 -2017	0.36 MT	0.176200	NIL
2017 -2018	0.36 MT	0.191115	NIL
2018- 2019	0.36 MT	0.246930	NIL
2019 - 2020	0.36 MT	0.250003	NIL
2020 - 2021	0.36 MT	0.219221	NIL
2021 – 2022	0.36 MT	0.225323	NIL
2022 - 2023	0.36 MT	0.247306	NIL

**27.6.3: Certified Compliance Report:** The status of compliance of earlier EC was obtained from Regional office of Chhattisgarh Environment Conservation Board (SPCB) vide letter no – 10735 dated 14.02.2025 in name of Katkona Underground Coal mine and subsequently forwarded by the Member secretary of CECB vide no – 2435 dated 09.01.2025. No non – complied/partially complied conditions reported in Certified Compliance report of EC 0.36 MTPA of Katkona UG.

**27.6.4: Environmental Site Settings:** The project area is covered under Survey of India Toposheet No. 64 I/11 and is bounded by the geographical coordinates ranging from 23°20'18" N and 23°22'30" N and longitudes 82°42'00" E and 82°45'00" E.

Project does not fall in the Critically Polluted Area (CPA)/Severely Polluted Area (SPA), as per CEPI Assessment 2018.

**Mining Lease:** PP submitted the following details of the Mining lease:

S. No	Govt. Order/Notifications (Sec 9(i))	Area (ha)	Remarks
1	SO 1251 dated 27.04.1963	810.000 Ha.	The remaining land 1348.486 Ha. (2400.965 Ha -1052.479 Ha) is part of SO 1251, 155 and 1899. Out of which, 972.036 Ha. is EC land of adjacent Pandavpara UG Mine. Balance land 376.45 ha includes 307.97 Ha. forest land and 68.48 Ha. non Forest land.
2	SO 1852 dated 17.06.1994	200.209 Ha.	
3.	SO 155 dated 04.01.2000	120.720 Ha.	
4.	SO 1899 dated 18.07.1992	1270.036 Ha.	
<b>Total</b>		<b>2400.965 Ha.</b>	

Date of Block allotment/ lease with its expiry date: Initial 27.04.1963 (perpetual till life of mine)

**Forest Area:** The project involved total 1048.149 Ha of forest land the details of the approval already obtained or applied for is as follows:

S. No.	Obtained vide letter No.	Area (ha)	Stage I/II	Validity	Remarks
1	8-87/93-FC; dated 31/07/1995	298.000	Stage-II	30 Years	Stage-II FC was granted in 1995 in favour of Pandavpara and Girijapur Block. Mining to be done by SECL Katkona UG Mine as per DGMS approval (Letter no. SHQ/DIR CMC/107/54/97/2698 dated

S. No.	Obtained vide letter No.	Area (ha)	Stage I/II	Validity	Remarks
					16.03.1998)
2	8-1/2006-FC; dated 14/06/2006	549.940	Stage-I	20 Years	Stage-I FC was granted in 2006. Mining activities are being carried out as per Directives of Honourable Supreme Court of India for which SECL has deposited an amount of Rs. 350 Crores in 2006-07 with CEC towards NPV.
3	FC Registration no. P/CG/MIN/QR/503645/2024; dated 10/01/2025	200.209			It is a fresh forest registration proposal and no mining has been done by mine management. Letter from State Forest Department dated 01.05.2025 has been received. Wherein, it is mentioned in the remarks that no activity has been undertaken by the PP in this forestland.
<b>Total</b>		<b>1048.149</b>			

Total broken forestland as on date is 35.67 Ha and there is violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 involved in the said project.

**Protected Area:** The project does not involve the violation of WLP Act. There is presence of Schedule – I species namely [Sloth Bear (*Melursus ursinus*) VU, Indian Monitor lizard (*Varanus benghalensis*) NT, Golden Jackal (*Canis aureus*) LC, Common mongoose (*Urva edwardsii*) LC, Cobra (*Naja Naja*) LC, Rat snake (*Ptyas mucosus*) LC and Russell's viper (*Daboia Russelii*) LC]. A Wildlife Conservation Plan has been prepared by Tropical Forest Research Institute (TFRI), Jabalpur (Tentative budget- Rs. 235.50 lakhs) and has been submitted for approval to State Forest department.

#### Other Sensitive Receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
i. Habitation	<b>Village</b>	<b>Distance</b>	<b>Direction</b>
	Katkona CT	Periphery of Road	South West
	Bardiya	Periphery of Road	South
ii. School	<b>Schools</b>	<b>Distance</b>	<b>Direction</b>
	Katkona CT	Periphery of Road	South West
	Bardiya	Periphery of Road	South
iii. River/ Waterbody	Nil		
iv. Forest	<b>Reserved / Protected forests</b>	<b>Distance</b>	<b>Direction</b>
	Katkona RF	Over RF	North & East
v. Archaeological Survey of India (ASI) protected site	No		

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)
vi. Any other	No

No diversions are proposed for the said project.

**27.6.5: Method of Mining and Mining Plan:** Mining Plan (Including Progressive Mine Closure Plan) has been approved by the Board of Directors of SECL in its 269<sup>th</sup> meeting held on 29<sup>th</sup> Jan'2005 for the production capacity of 0.36 MTPA.

1. Method of Mining to be adopted shall be Underground mining, with bord and pillar method.
2. There is no coal washery proposed in the project.
3. Net geological reserve reported in the mine lease area is 92.52 MT with 53.05 MT mineable reserve. Out of total mineable reserve of 53.05 MT, 19.312 MT are available for extraction. Percent of extraction is 70 %
4. Four seams with thickness ranging from 1.50 m – 6.10 m are workable. Grade of coal is SC-II and G9, stripping ratio NA while gradient is 1 in 3.14 to 1 in 7.7
5. Life of mine is 54 years as on 01.04.2024.
6. Details of Land use pattern:
  - e. Pre- mining land use:

S. No.	Land Use	Within ML Area (ha)	Outside ML Area (ha)	Total
1	Agricultural Land	4.33	0.000	4.33
2	Forest land	1048.149	0.000	1048.149
3	Waste land	0.000	0.000	0.000
4	Grazing land	0.000	0.000	0.000
5	Surface Water Bodies	0.000	0.000	0.000
6	Settlements	0.000	0.000	0.000
7	Other (Tenancy Land)	0.000	0.000	0.000
	<b>Total</b>	<b>1052.479</b>	<b>0.000</b>	<b>1052.479</b>

f. Post – mining land use pattern:

S. No.	Pattern of utilization	Area (ha)
1.	Mining area	0
2.	Green belt/ Plantation	57.200
3.	Final void/Water body	---
4.	Built up area (Infrastructure, colony, roads, R&R site)	40.000
5.	Safety zone	---
6.	Others; Undisturbed land	955.279
	<b>Total</b>	<b>1052.479</b>

7. Details of transportation:
  - ix. **In-pit to surface:** Transportation of coal from underground to Bunkers (located on surface) is being done through series of conveyor belts.
  - x. **Surface to siding:** The transportation of coal from stock yard/bunker to Katora Railway Siding by tarpaulin covered trucks/tippers By Truck/Tippers via a black topped road of approximately 9 km
  - xi. Siding to loading: Coal from Katora Railway siding loaded into railway wagons by mechanical means (i.e. payloaders).
  - xii. **Quantity being transported by Road and rail:** In FY 2024-25 (0.222 MTPA)
 

Rail- 0.209 MT  
 Road- 0.013 MT

8. **Details of reclamation:** Not applicable, as it is an underground mine. Existing green belt has been developed in 6.8335 ha area which is about 0.65% of the total project area of 1052.149 ha with total sapling of 17000 Trees. Proposed greenbelt/green cover will be developed in 57.2 ha which is about 5.06 % of the total project area. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 23425 saplings will be planted and nurtured in 9.37 hectares in 5 years.

#### 27.6.6: Baseline data:

Period	01.03.2023 to 31.05.2023
AAQ parameters at 09 Locations (min and max)	<b>Core Zone</b> $PM_{2.5} = 14 \text{ To } 50 \mu\text{g}/\text{m}^3$ $PM_{10} = 49 \text{ To } 186 \mu\text{g}/\text{m}^3$ $SO_2 = 12 \text{ To } 29 \mu\text{g}/\text{m}^3$ $No_x = 17 \text{ To } 41 \mu\text{g}/\text{m}^3$ $CO = 0.16 \text{ To } 0.28 \mu\text{g}/\text{m}^3$ <b>Buffer Zone</b> $PM_{2.5} = 10 \text{ To } 30 \mu\text{g}/\text{m}^3$ $PM_{10} = 31 \text{ To } 71 \text{ Mg}/\text{m}^3$ $SO_2 = 10 \text{ To } 21 \mu\text{g}/\text{m}^3$ $No_x = 8 \text{ To } 29 \mu\text{g}/\text{m}^3$ $CO = 0.10 \text{ To } 0.18 \mu\text{g}/\text{m}^3$
Incremental GLC Level	<u><b>Cumulative:</b></u> <b>Core zone:</b> $PM_{10} = 186.41 \mu\text{g}/\text{m}^3$ (Level at core zone). $PM_{2.5} = 49.69 \mu\text{g}/\text{m}^3$ (Level at core zone). $SO_2 = 29 \mu\text{g}/\text{m}^3$ (Level at core zone). $No_x = 30.21 \mu\text{g}/\text{m}^3$ (Level at core zone). <b>Buffer Zone:</b> $PM_{10} = 71.06 \mu\text{g}/\text{m}^3$ (Level at 4.5 km in SW direction). $PM_{2.5} = 30.01 \mu\text{g}/\text{m}^3$ (Level at 4.5 km in SW direction). $SO_2 = 21 \mu\text{g}/\text{m}^3$ (Level at 4.5 km in SW direction). $No_x = 28.01 \mu\text{g}/\text{m}^3$ (Level at 4.5 km in SW direction).  <u><b>Incremental:</b></u> <b>Core zone:</b> $PM_{10} = 7.41 \mu\text{g}/\text{m}^3$ (Level at core zone). $PM_{2.5} = 0.69 \mu\text{g}/\text{m}^3$ (Level at core zone). $SO_2 = 0 \mu\text{g}/\text{m}^3$ (Level at core zone). $No_x = 0.21 \mu\text{g}/\text{m}^3$ (Level at core zone). <b>Buffer Zone:</b> $PM_{10} = 0.06 \mu\text{g}/\text{m}^3$ (Level at 4.5 km in SW direction). $PM_{2.5} = 0.01 \mu\text{g}/\text{m}^3$ (Level at 4.5 km in SW direction). $SO_2 = 0 \mu\text{g}/\text{m}^3$ (Level at 4.5 km in SW direction). $No_x = 0.01 \mu\text{g}/\text{m}^3$ (Level at 4.5 km in SW direction).
Ground water quality at 08 Locations	<b>Core Zone</b> pH : 7.15 to 7.23 Total Hardness : 290 to 314 mg/l, Chlorides : 183.5 to 193 mg/l, Fluoride : 0.27 to 0.33 mg/l. Heavy metals : BQL(QL=0.005) <b>Buffer Zone</b> pH : 5.99 to 7.8 Total Hardness : 72 to 202 mg/l, Chlorides : 13 to 90 mg/l, Fluoride : 0.12 to 0.55 mg/l.

Period	01.03.2023 to 31.05.2023																								
	Heavy metals(Cd) : BDL(QL=0.005) Heavy metals (As) : BDL(QL=0.005)																								
Surface water quality at 08 Locations	<b>Core Zone</b> pH : 7.72 to 7.89 DO : 4.6 to 5.2 mg/l and BOD : 2.2 to 3.2 mg/l. COD : 12 to 20 mg/l <b>Buffer Zone</b> pH : 6.52 to 7.95 DO : 4.5 to 6.5 mg/l and BOD : 2 to 3.4 mg/l. COD : 8 to 24 mg/l																								
Noise levels Leq (Day and Night)	<b>Core Zone (Industrial area)</b> 49.5 to 67.7 dBA for the Day time and 40.9 to 60.2 dBA for the Night-time. <b>Buffer Zone (Residential area)</b> 46.8 to 52.9 dBA for the Day time and 37.8 to 43.8 dBA for the Night-time.																								
Traffic assessment study findings	<p>Traffic study has been conducted at coal transportation road connecting Katora Siding which is approximately 9 Km (distance) from the mine site. Transportation of mineral will be done 100 % by railway siding. Existing PCU is 109.3 PCU/hr on coal transport road (PWD road) and existing level of service (LOS) is:</p> <p><b>Existing:</b></p> <table><tr><td>Road</td><td>V (Volume in PCU/hr.)</td><td>C (Capacity in PCU/hr.)</td><td>Existing V/C Ratio</td><td>LOS</td></tr><tr><td>2 Lane of 6m width</td><td>109.3</td><td>900</td><td>0.12</td><td>A</td></tr></table> <p>PCU load after proposed project will be 109.3(Existing) + 4.625 (Additional) PCU/hr and level of service (LOS) will be:</p> <p><b>Proposed:</b></p> <table><tr><td>Road</td><td>V (Volume in PCU/hr.)</td><td>C (Capacity in PCU/hr.)</td><td>Proposed V/C Ratio</td><td>LOS</td></tr><tr><td>2 Lane of 6m width No (Modification not Required)</td><td>113.93</td><td>900</td><td>0.13</td><td>A</td></tr></table> <p>Note: Capacity as per IRC 106-1990 Guideline for capacity for roads. Conclusion: The level of service will not affect after including additional traffic due to proposed project.</p>					Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS	2 Lane of 6m width	109.3	900	0.12	A	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Proposed V/C Ratio	LOS	2 Lane of 6m width No (Modification not Required)	113.93	900	0.13	A
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2 Lane of 6m width No (Modification not Required)	113.93	900	0.13	A																					
Flora and fauna	There is presence of Schedule – I species namely [Sloth Bear ( <i>Melursus ursinus</i> ) VU, Indian Monitor lizard ( <i>Varanus benghalensis</i> ) NT, Golden Jackal ( <i>Canis aureus</i> ) LC, Common mongoose ( <i>Urva edwardsii</i> ) LC, Cobra ( <i>Naja Naja</i> ) LC, Rat snake ( <i>Ptyas mucosus</i> ) LC and Russell's viper ( <i>Daboia Russelii</i> )] LC. A Wildlife Conservation Plan has been prepared by Tropical Forest Research Institute (TFRI), Jabalpur (Tentative budget- Rs. 235.50 lakhs) and has been submitted for approval to State Forest department.																								
Water Requirement	Source of Water: Mine Water Ground Water Intersection: Yes Water Requirement: 492 KLD NOC (For surface water): Not Required NOC (Ground Water): Yes. Application for renewal has been submitted vide CGWA/NOC/MIN/REN/1/2022/7086 dated 08.07.2022 and the approval is awaited.																								

**27.6.7: Water Requirement:** The water requirement for the said project is 492 KLD. The source of water is mine seepage water on 27.02.2019, 1st NOC was granted vide CGWA/NOC/MIN/ORIG /2019/4733. Subsequently, 1st Renewal NOC was received vide No. -CGWA/NOC/MIN/REN/1/2022/7086 dated 08.07.2022. 2nd Renewal NOC No. is under process at CGWA, New Delhi. Further, PP submitted that no water body is proposed to be diverted.

**27.6.8: Power Requirement and details of diversion of Hi-Tension/ Transmission Line:** The existing Katkona underground mine, located in the Baikunthpur Area of SECL, Korea district is receiving power at 33 kV from the 132/33kV Salka Substation (power source from CSPTCL) by means of existing one number overhead feeder (via SECL Baikunthpur substation). Total power requirement is 4110 KW. No HT line is proposed for diversion.

**27.6.9: Solid and Hazardous Waste:** The details of solid and hazardous waste generation along with its mode of treatment/disposal is furnished as below:

S. No.	Type of Waste	Source	Quantity	Mode of Treatment	Disposal
1	Used oil (Cat. 5.1)	UG mining and ancillary machinery	0.865 KL/ Year	Collected and stored in barrels and kept in Hazardous waste storage room for auction to authorized recycler.	Through e-auction
2	Wastes containing residues of oil (Cat. 5.2)	UG mining and ancillary machinery	0.00 MT/ Year	Stored in Hazardous waste storage room and auctioned to authorized TSDF.	Through Authorized TSDF

**27.6.10: Details of Public Consultation held on 15.04.2022 in accordance with Ministry's O.M. dated 16.02.2021:**

Title	Public Hearing	Public Consultation as per Ministry's O.M. dated 16.02.2021 for Revalidation
Details of advertisement given	09/03/2005 and 10/03/2005	Paper Notice in newspaper Times of India dated 15.04.2022 and Local Newspaper Patrika dated 15.04.2022
Date of public consultation	The last public hearing for expansion of the project from 0.192 MTPA to 0.360 MTPA was held on 11.04.2005	15.04.2022
Venue	Premises of SDO (Revenue), Baikunthpur, Dist. Korea.	NA, Public consultation was done through newspaper publication
Presiding Officer	SDO (Revenue), Baikunthpur, Dist. Korea	NA, Public consultation was done through newspaper publication
Number of Person Attended Hearing	55 Nos.	NA, Public consultation was done through newspaper publication
Number of representation received in writing from the	12 Nos. from the district and NIL from outside.	No representation received (as confirmed by CECB, Raipur vide

Title	Public Hearing	Public Consultation as per Ministry's O.M. dated 16.02.2021 for Revalidation
district and outside of district, please give details:		letter no. 2582 dated 08.07.2022)
Major issues raised	Drinking Water, Infrastructure, Education	Nil

Action plan as per MoEF&CC O.M. dated 30/09/2020

S. No.	Physical activity and action plan	Year of implementation (Budget in Lakh)- 2025-26 onwards											Total Expenditure (in Lakhs)
		1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-54	
1.	Infrastructure creation for drinking water Supply	2	2	2	2	3	3	3	3	4	4	3	31
2.	Sanitation	2	2	2	2	2	3	3	3	3	3	2	27
3.	Education	2	2	2	2	2	3	3	3	3	3	3	28
4.	Skill Development	2	2	2	2	2	3	3	3	3	3	2	27
5.	Basic Health Infrastructure	2	2	2	2	2	2	2	2	2	2	2	22
6.	Road Infrastructure	4	4	4	4	4	4	4	4	4	4	3	43
7.	Rainwater Harvesting	2	2	2	2	2	2	2	2	2	2	2	22
	<b>Total</b>												<b>200</b>

**27.6.11: EMP Budget:** Existing capital cost of project was Rs. 106.28 Crores (as on 31.03.2024). The capital cost for environmental protection measures is proposed as 620.266 lakhs and the annual recurring cost towards the environmental protection measures is proposed as Rs. 200.94 lakhs. The details of cost for environmental protection measures is as follows:

S. No.	Description of Item	Existing (In Rs. Lakh)		Proposed (In Rs. Lakh)	
		Capital Cost	Recurring Cost	Capital Cost	Recurring Cost
(i)	Air Pollution Control/ Noise Management	15	24	325.999	
(ii)	Water Pollution Control		31	132.467	
(iii)	Environmental Monitoring and Management		51.62	NA	60
(iv)	Green Belt Development	25	25	NA	15.0
(v)	Other heads as proposed in EIA/ committed during the EAC	12	106.83	161.8	125.94
	<b>Total</b>	<b>52</b>	<b>238.45</b>	<b>620.266</b>	<b>200.94</b>

**27.6.12: Plantation:** Existing green belt has been developed in 6.8335 ha area which is about 0.65% of the total project area of 1052.149 ha with total sapling of 17000 Trees. Proposed greenbelt will be developed in 57.2 ha which is about 5.06 % of the total project area. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 23425 saplings will be planted and nurtured in 9.37 hectares in 05 years.

**27.6.13: Rehabilitation and Resettlement (R&R):** Project proponent informed according to rules of Govt. of India and Chhattisgarh Govt., jobs and compensation were provided. Employment has been provided to 41 individuals and compensation has been paid to the beneficiaries and no further R&R is involved.

**27.6.14: Project Cost:** The capital cost of the project is Rs. 106.28 Cr.

**27.6.15: Details of pending litigation:** PP reported that there is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Forest Conservation Act, Wildlife Protection Act, CRZ Notification, MMDR Act, Factories Act. Further, there is no court case on the project.

**27.6.16: Undertaking and Affidavit:** PP submitted the following Undertaking with respect to Katkona Underground Coal Mine:

- There is no construction done at the site or all the constructions are done without any deviation as per the EC obtained vide Letter no. J-11015/219/2005-IA. II(M) dated 20.06.2006 (0.36 MTPA).
- There is no litigation on the project at NGT or any other court of law.
- The land has been acquired under Coal Bearing Areas (Acquisition and Development) Act, 1957. There is no R&R issue. The details of Gazette Notification under CBA, 1957 is as follows: 1. SO 1251 dated 27.04.1963  
2. SO 1825 dated 17.06.1994  
3. SO 155 dated 04.01.2000  
4. SO 1899 dated 18.07.1992
- There is no difference in the documents submitted i.e., Form 1, Mining Plan, EIA/EMP report and presentation being made to the EAC.
- The project at MoEF&CC project is being submitted for grant of revalidation of EC under the provisions of MoEF&CC S.O. 1530E dated 06.04.2018.
- There is no data entry errors in the information uploaded in PARIVESH system including names/email-id/mobile numbers/address of the project proponent, authorized person etc. It is also certified that the supporting documents uploaded on PARIVESH portal are correct and duly authenticated by the Authorized Signatory. In case of any deviation in data found in any of the documents, the authorized signatory shall be held responsible and furthermore, the above said project shall be rejected for grant of amendment in EC.

PP also submitted an affidavit with respect to Katkona Underground Coal Mine that a total of 1130.929 Ha. land has been acquired under Coal Bearing Areas (Acquisition and Development) Act 1957. Total land area requirement for the project has been reduced from 1130.929 Ha. to 1052.479 Ha. and the same has been reflected in the Mining Plan submitted to MoEF&CC. The reduced 78.45 Ha. forest land is undisturbed and no mining activity had been carried out in the land.

**27.6.17: ADS Reply:** The proposal was initially considered in 40<sup>th</sup> meeting of EAC (Coal Mining Sector) held on 26.10.2018 and the proposal was deferred for want of additional information. Point-wise reply of ADS submitted by PP is given as below:

<b>S. No.</b>	<b>Information desired vide MoM of 40<sup>th</sup> EAC</b>	<b>Compliance Status</b>
(i)	Preparation of EIA/EMP report based on one season baseline data along with the details in respect of the following:-	The EIA/EMP report has been prepared based on generic structure specified in Appendix III of EIA notification 2006 and complying Standard TOR for UG mine. The baseline data was collected during March to May 2023 (non-monsoon period). The EIA/EMP report has been prepared including all the necessary inputs as sought by EAC/MoEF.
(ii)	Public Consultation, including public hearing, shall be conducted through concerned SPCB as per the provisions/ procedure contained in the EIA Notification, 2006 for information of the stakeholders about the present coal mining operations inviting comments and their redressal.	To streamline revalidation cases, MOEF has issued an OM dated 16.02.2021, suggesting PP shall invite the suggestions/ objections as wider part of public consultation instead of Public Hearing as per EIA 2006. An undertaking has been submitted by Project Proponent for complying point no. (3) of the OM no. F-No. 22-4/2020-IA.III dated 16.02.2021. The public notice seeking suggestions/objections was published on 14.03.2022 and no written issues have been received as communicated by CECB/SPCB.
(iii)	Valid Mining Plan and the Progressive Mine Closure Plan duly approved by the competent Authority.	Mining plan including mine closure plan for capacity 0.36 MTPA has been approved by CoFD SECL on 28.01.2025. The land area has been reduced to 1052.479 ha. in place of 1130.929 ha.
(iv)	Compliance status of the conditions stipulated in the environmental clearance from the concerned Regional Office of the Ministry.	The site inspection for monitoring of EC conditions (0.36 MTPA) was carried out by the RO, Ambikapur, CECB on 08.01.2025 and Certified Compliance report communicated to SECL vide letter no: 1075/Tech/Hq/CECB/2025 Naya Raipur Atal Nagar Dt 14/02/2025.
(v)	Consent to operate from the State Pollution Control Board for the present mining operations.	Consent to operate has been obtained by CECB and the same is valid upto 31.05.2025.
(vi)	Redressal of issues raised during the last public hearing conducted by the SPCB.	PH was conducted on 11.04.2005 for Katkona UG 0.36 MTPA. The status of redressal of issues raised during the last public hearing along with an action taken report is enclosed.
(vii)	Coal production realized from the mine from 1993-94 vis-à-vis capacity stipulated in the environment clearance.	Coal production realized from the mine from 1993-94 vis-à-vis capacity stipulated in the environment clearance is enclosed.
(viii)	Need assessment survey for the activities proposed under the CSR and the comprehensive plan to be prepared accordingly for implementation by the project proponent. Also, impact of the CSR activities undertaken at an interval of 5 years to be evaluated and a report to be submitted.	Need assessment survey for the activities proposed under the CSR and the comprehensive plan has been prepared and same has been attached. The impact assessment report of CSR activities is enclosed.

S. No.	Information desired vide MoM of 40 <sup>th</sup> EAC	Compliance Status		
(ix)	Stage-I/Renewal of forest clearance under the Forest (Conservation) Act, 1980, as the case may be, of the forest land involved in the project.	The forest land involved in this project is 1048.149 as per latest approved mine plan. The status of forest clearance as detailed below:		
		Status of Forest clearance		
		Area (in ha)	Status	Validity
		298.00	FC Stage-II granted by MoEF vide no. 8-87/93-FC; dated 31.07.1995	30 years
		549.94	FC Stage-I granted by MoEF vide no. 8-1/2006-FC; dated 14.06.2006	20 years
		200.209	FC Registration no. FP/CG/MIN/QRY/503645/2024; dated 10.01.2025	
		1048.149	Total Forest Land	
(x)	Details of court cases and the compliance status	There is no litigation pending on the project at NGT or any other court of law under EP Act, 1986, Air act 1981 or Water Act, 1974. An undertaking for the same is attached.		

The proponent submitted the ADS reply raised on 11.04.2025 uploaded on PARIVESH on 25.05.2025. Point-wise reply of ADS submitted by PP is as below:-

S. No.	Additional details sought	Compliance of ADS
1	All the documents are submitted in google drive. Kindly submit all the documents on PARIVESH portal.	All documents are uploaded in PARIVESH portal. Due to size constrain, also a copy of all documents in high quality are sent through a mail.
2	As per EC dated 20.06.2006, the project area is 1130.929 Ha. However, lease area (1130.929 ha) and project area (1052.479 ha), both are mentioned on the cover page of EIA/EMP report. Kindly clarify and make the necessary changes.	<p>The project area is 1130.929 Ha as per EC dated 20.06.2006. However, mining has been restricted to 1052.479 ha (1130.929 ha – 78.45 ha = 1052.479 ha) as per revised mine plan due to presence of a fault through upto 25m causing difficult to access the 78.45 ha land.</p> <p>Accordingly, necessary correction has been done on the cover page of the EIA/EMP report.</p>
3	The approved mine plan is for 10.51 sq km of block area, i.e., 1051 Ha. However, the project area, as per the EC dated 20.06.2006 is 1130.929 Ha. Kindly clarify and make the necessary	<p>The approved mining plan covers block area of about 10.51 sq km.</p> <p>The project area as per EC dated 20.06.2006 is 1130.929 ha and has been reduced by limiting mining in 1052.479 ha (due to presence of a fault through upto 25m causing difficult to access the 78.45 ha land). Accordingly, mine plan has been prepared and submitted.</p>

S. No.	Additional details sought	Compliance of ADS																			
	changes. PP is required to submitted the updated mine plan in line with the EC granted and the area should be mentioned in hectare only.																				
4	As per the EC dated 20.06.2006, the project involves total 1033.729 Ha of forest land. However, as per the 40th EAC MoM, the project involves 1126.599 ha of forestland. Whereas, as per the ADS reply submitted vide letter dated 27.03.2025, the project involves the total forestland of 1048.149 Ha. Kindly clarify the actual forestland involved in the project. Also submit a letter from State Forest Department stating the actual forestland involved in the project.	The deliberation on forest land furnished at different stage are provided: <table><tr><th colspan="2">Particulars</th><th>Area in Ha</th><th>Remarks</th></tr><tr><td rowspan="3">Forest land details furnished</td><td>As per EC dated 20.06.2006</td><td>1033.729</td><td>At present the land scheduled has been revised due to conversion of Tenancy Land (1.3 ha) to Govt. land as per Ceiling Act and also conversion of Govt. land (91.57 ha+ 1.3. ha = 92.87 ha) to forest land. Revised forest land area is 1126.599 ha.</td></tr><tr><td>As per 40<sup>th</sup> EAC MoM (dated. 26.10.2018)</td><td>1126.599 (1048.149 +78.45)</td><td>Information furnished for revalidation of EC as per latest revenue details. 78.45 ha forest land diversion was proposed.</td></tr><tr><td>As per revised mine plan dated 28.01.2025</td><td>1048.149 (1126.599 - 78.45)</td><td>Restricting mining due to presence of fault through up-to 25m causing difficult to access the 78.45 ha forest land.</td></tr></table> <p>At present, the total forest land involved in the project is 1048.149 ha.</p> <p>Letter from State Forest Department (DFO, Korea) dated 01.05.2025 is enclosed stating the actual forestland involved in the Katkona UG Coal Mine.</p>				Particulars		Area in Ha	Remarks	Forest land details furnished	As per EC dated 20.06.2006	1033.729	At present the land scheduled has been revised due to conversion of Tenancy Land (1.3 ha) to Govt. land as per Ceiling Act and also conversion of Govt. land (91.57 ha+ 1.3. ha = 92.87 ha) to forest land. Revised forest land area is 1126.599 ha.	As per 40 <sup>th</sup> EAC MoM (dated. 26.10.2018)	1126.599 (1048.149 +78.45)	Information furnished for revalidation of EC as per latest revenue details. 78.45 ha forest land diversion was proposed.	As per revised mine plan dated 28.01.2025	1048.149 (1126.599 - 78.45)	Restricting mining due to presence of fault through up-to 25m causing difficult to access the 78.45 ha forest land.		
Particulars		Area in Ha	Remarks																		
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	As per revised mine plan dated 28.01.2025	1048.149 (1126.599 - 78.45)	Restricting mining due to presence of fault through up-to 25m causing difficult to access the 78.45 ha forest land.																		
5	In the ADS reply, it is also observed that the Stage – II FC has been accorded only on 298 Ha of forestland. On remaining 549.94 Ha of forestland, only stage – I FC has been obtained vide letter dated 14.06.2006 and on 200.209 Ha, application for stage – I forest clearance, has been filed. Kindly clarify whether underground mining has been done on the forestland on which stage – II FC is yet to be accorded. If not, then a letter in this regard shall be obtained from State Forest Department and the	At present, the total forest land involved is 1048.149 ha and mining working status on forest land has been obtained from State Forest Department and provided below: <table><tr><th>S. no.</th><th>Forest land involved in Katkona UG</th><th>Details of Forestry Clearance</th><th>Remark</th></tr><tr><td>1</td><td>549.940 Ha (Mining Rights- 457.070 Ha and 92.87 Ha Surface Right)</td><td>Stage-I FC FC No.- F.No.8-1/2006-FC dated 14.06.2006</td><td>Mining is being done as per Supreme Court Order dated 16.12.2005</td></tr><tr><td>2</td><td>200.209 Ha</td><td>Forest Registration No.- FP/CG/MIN/QRY/503645/2024 dated 10.01.2025</td><td>New forest registration case and no mining has been done by mine management.</td></tr><tr><td>3</td><td>298.000</td><td>Stage-II FC</td><td>Mining to be done by</td></tr></table>				S. no.	Forest land involved in Katkona UG	Details of Forestry Clearance	Remark	1	549.940 Ha (Mining Rights- 457.070 Ha and 92.87 Ha Surface Right)	Stage-I FC FC No.- F.No.8-1/2006-FC dated 14.06.2006	Mining is being done as per Supreme Court Order dated 16.12.2005	2	200.209 Ha	Forest Registration No.- FP/CG/MIN/QRY/503645/2024 dated 10.01.2025	New forest registration case and no mining has been done by mine management.	3	298.000	Stage-II FC	Mining to be done by
S. no.	Forest land involved in Katkona UG	Details of Forestry Clearance	Remark																		
1	549.940 Ha (Mining Rights- 457.070 Ha and 92.87 Ha Surface Right)	Stage-I FC FC No.- F.No.8-1/2006-FC dated 14.06.2006	Mining is being done as per Supreme Court Order dated 16.12.2005																		
2	200.209 Ha	Forest Registration No.- FP/CG/MIN/QRY/503645/2024 dated 10.01.2025	New forest registration case and no mining has been done by mine management.																		
3	298.000	Stage-II FC	Mining to be done by																		

S. No.	Additional details sought	Compliance of ADS			
	same shall be submitted.		Ha	FC No.- 8-87/93-FC dated 31.07.1995 (part of 1050.823 ha in the name of Pandavpara and Girijapur block.	SECL Katkona UG Mine as per DGMS approval (Letter no. SHQ/DIR-CMC/107/54/97/2698 dated 16.03.1998)
		<b>Total</b>	<b>1048.149 Ha</b>		
6	As per the EC dated 20.06.2006, the project involves total 1033.729 Ha of forest land. However, in the ADS reply submitted vide letter dated 27.03.2025, PP has submitted that the project involves total 1048.149 Ha of forestland. According to the reply submitted by the PP, there is increase of 14.42 Ha of forestland. PP is also required to submit the notification through which it came to know about the existence of increased forestland involved in the project area. PP may also clarify as to why the application for forest clearance and amendment in EC was not submitted to the ministry when the forestland of 14.42 Ha was recognized in the project area.	The deliberation on forest land furnished at different stage are provided:			
		<b>Particulars</b>		<b>Area in Ha</b>	<b>Remarks</b>
		Forest land details furnished	As per EC dated 20.06.2006	1033.729	At present the land scheduled has been revised due to conversion of Tenancy Land (1.3 ha) to Govt. land as per Ceiling Act and also conversion of Govt. land (91.57 ha+ 1.3. ha = 92.87 ha) to forest land. Revised forest land area is 1126.599 ha.
			As per revised mine plan dated 28.01.2025	1048.149	Information on forest land for 1126.599 ha was submitted during revalidation of EC (Application dt. 16.10.2018). Restricting mining due to presence of fault through up-to 25m causing difficult to access the 78.45 ha forest land has further reduced forest land to 1126.599 - 78.45= 1048.149 ha.
		<b>Note:</b>			
		<b>Land use status</b>			
		<b>Land use type</b>	<b>As per EC 20.06.2006(Area in ha)</b>	<b>Present status as per tehsil records (Area in ha)</b>	<b>Remarks</b>
		Tenancy land	5.63	4.33	As present Tehsil records 1.30 Ha tenancy land converted to Govt. land (due to Ceiling Act).
		Govt. land	91.57	0.00	Total - 92.87 (91.57 Ha + 1.30 Ha) converted into Forest land.
		Forest land	1033.729	1126.599	At present only 1048.149 Ha is involved in Katkona UG Coal Mine.
		<b>Total</b>	<b>1130.929</b>	<b>1130.929</b>	
7	Kindly submit the status of Schedule – I species observed in the study area and Wildlife Conservation Plan for the said project.	The Schedule-I species observed in study area are Sloth Bear ( <i>Melursus ursinus</i> ) VU, Indian Monitor lizard ( <i>Varanus benghalensis</i> ) NT, Golden Jackal ( <i>Canis aureus</i> ) LC, Common mongoose ( <i>Urva edwardsii</i> ) LC, Cobra ( <i>Naja Naja</i> ) LC, Rat snake ( <i>Ptyas mucosus</i> ) LC and Russell's viper ( <i>Daboia Russelii</i> ) LC. A Wildlife Conservation Plan has been prepared by Tropical Forest Research Institute (TFRI), Jabalpur (Tentative budget- Rs. 235.50 lakhs) and has been submitted for approval to State Forest department.			
8	Kindly submit the	Projected water demand of Katkona UG, Baikunthpur Area, SECL			

S. No.	Additional details sought	Compliance of ADS	
	details of water requirement for the said project and the latest status of CGWA application renewal.	Purpose	Demand (m <sup>3</sup> /day)
		A. Industrial water demand	175
		1. Dust suppression	119
		2. Green belt	30
		3. Fire service/ Other industrial uses/ losses	26
		B. Domestic/Potable Water Demand	317
		1. Housing/ Service buildings	286
		2. Added for losses	31
		Total	492
		In-Principle, Approval for CGWA NOC of Katkona UG Coal Mine received vide email dated 22.04.2025 subject to payment of Charges and accordingly desired payment as per CGWA NOCAP portal has been done on dated 26.04.2025 and intimated on dated 28.04.2025. NOC awaited from CGWA.	
9	Kindly submit the same method of transportation being followed for the said mine from in-pit to surface, surface to siding, siding to loading and then to the final consumer. In case, road transportation is being done, then PP shall submit a transportation assessment study report for the said mine, which shall include: a) Details of existing road transportation route (this shall include the type of road, length of the road, nearest habitation on the road).  b) Detailed traffic study report of the road route through which transportation of coal is being done.	A study for coal transportation assessment and its environmental management plan for Katkona UG has been carried out and same has been submitted.	

S. No.	Additional details sought	Compliance of ADS									
	<p>c) It is requested to submit the AAQM details of the road through which transportation of coal is being done (of both day and night time) for.</p> <p>d) It is requested to submit the noise quality monitoring details of the road through which transportation of coal is being done (of both day and night time) for.</p> <p>e) Environmental Management Plan including monitoring program to address all concerns arising out of coal transportation by road.</p>										
10	Kindly submit the details of sensitive receptors on the coal transportation road, along with the mitigation measures being followed and further proposed to be followed.	<p>Details of sensitive receptors-</p> <table border="1"> <thead> <tr> <th>SL</th><th>Name of village/town</th><th>Approx. distance from coal transportation road</th></tr> </thead> <tbody> <tr> <td>1</td><td>Katkona CT</td><td>Periphery of road</td></tr> <tr> <td>2</td><td>Bardiya</td><td>Periphery of road</td></tr> </tbody> </table> <p>Mitigation measures:</p> <ol style="list-style-type: none"> <li>1. Regular water spraying and fog canon to suppress dust on haul roads.</li> <li>2. Deployment of mechanised sweeping machines for cleaning coal transport roads to reduce dust.</li> <li>3. Plantation along roadside to minimize dust and noise pollution.</li> <li>4. Use of tarpaulin-covered trucks to prevent spillage and dust emission.</li> <li>5. Enforced speed limits to reduce noise and road wear.</li> <li>6. Installation of solar streetlights along the village boundary to improve visibility and security.</li> <li>7. Installation of safety signs and awareness messages along the road to enhance public safety.</li> </ol>	SL	Name of village/town	Approx. distance from coal transportation road	1	Katkona CT	Periphery of road	2	Bardiya	Periphery of road
SL	Name of village/town	Approx. distance from coal transportation road									
1	Katkona CT	Periphery of road									
2	Bardiya	Periphery of road									
11	Kindly submit the drone video and the geo-tagged photographs of the coal transportation route.	Drone Video and GPS Tagged photographs of the Coal Transportation is enclosed									
12	As per the ADS reply dated 27.03.2025, submitted by the PP, in reply to point (iii), PP has submitted the notice for public	The public notice was published on 15.04.2022 accordingly necessary Changes has been done.									

S. No.	Additional details sought	Compliance of ADS
	consultation was published on 14.03.2022. However, in the communication received from CECB, it is stated that the public notice was published on 15.04.2022. Kindly clarify and make the necessary changes.	
13	Presentation to be presented is requested to be submitted.	Presentation to be presented is enclosed.

**27.6.18: Written Submission:** PP submitted the following information during the meeting:

S. No.	Observations	Reply submitted by the PP																																																																											
1	Revised EMP	<table> <tr> <th>S. No.</th><th>Particulars</th><th>Total Capital (Rs. In</th></tr> <tr> <td></td><td></td><td></td></tr> <tr> <td><b>A)</b></td><td><b>Capital For Antipollution Measures At Mine and Industrial Site</b></td><td></td></tr> <tr> <td>1</td><td>Water Tanker for water sprinkling</td><td>12.499</td></tr> <tr> <td>2</td><td>Water supply in Industrial area/Water</td><td>47.200</td></tr> <tr> <td>3</td><td>Settling tank for mine water disposal</td><td>81.267</td></tr> <tr> <td>4</td><td>Oil and grease trap for workshop effluents</td><td>4.000</td></tr> <tr> <td>5</td><td>Dust suppression arrangement at Railway</td><td>8.000</td></tr> <tr> <td>6</td><td>Vehicles for Environmental Purposes (Fogging Machine,</td><td>205.500</td></tr> <tr> <td>7</td><td>Continuous Ambient Air Quality</td><td>100.000</td></tr> <tr> <td>8</td><td>Solar Panel lighting at strategic location</td><td>100.000</td></tr> <tr> <td></td><td>SUB TOTAL OF (A):</td><td><b>558.466</b></td></tr> <tr> <td><b>B)</b></td><td><b>Anti-Pollution Measures In Township</b></td><td></td></tr> <tr> <td></td><td>Other development measures in township</td><td>11.800</td></tr> <tr> <td></td><td>SUB TOTAL OF (B):</td><td>11.800</td></tr> <tr> <td><b>C)</b></td><td><b>Community Development</b></td><td>50.000</td></tr> <tr> <td></td><td><b>Grand Total (A to C) :</b></td><td><b>620.266</b></td></tr> </table> <table> <tr> <th>S. No.</th><th>Revenue Nature</th><th>Amount (Rs. In Lakhs)</th></tr> <tr> <td>1</td><td>Plantation Cost</td><td>15.00</td></tr> <tr> <td>2</td><td>Environment monitoring / annum</td><td>60.00</td></tr> <tr> <td>3</td><td>Environment Audit @ 1.5 lakhs/annum</td><td>1.50</td></tr> <tr> <td>5</td><td>Regular monitoring of CSR &amp; RR plan</td><td>2.00</td></tr> <tr> <td>6</td><td>CTO (Consent to operate)</td><td>3.50</td></tr> <tr> <td>7</td><td>Revenue Nature Expenditure of Mine</td><td>105.46</td></tr> <tr> <td>8</td><td>Subsidence Management (Surface land</td><td>13.48</td></tr> </table>	S. No.	Particulars	Total Capital (Rs. In				<b>A)</b>	<b>Capital For Antipollution Measures At Mine and Industrial Site</b>		1	Water Tanker for water sprinkling	12.499	2	Water supply in Industrial area/Water	47.200	3	Settling tank for mine water disposal	81.267	4	Oil and grease trap for workshop effluents	4.000	5	Dust suppression arrangement at Railway	8.000	6	Vehicles for Environmental Purposes (Fogging Machine,	205.500	7	Continuous Ambient Air Quality	100.000	8	Solar Panel lighting at strategic location	100.000		SUB TOTAL OF (A):	<b>558.466</b>	<b>B)</b>	<b>Anti-Pollution Measures In Township</b>			Other development measures in township	11.800		SUB TOTAL OF (B):	11.800	<b>C)</b>	<b>Community Development</b>	50.000		<b>Grand Total (A to C) :</b>	<b>620.266</b>	S. No.	Revenue Nature	Amount (Rs. In Lakhs)	1	Plantation Cost	15.00	2	Environment monitoring / annum	60.00	3	Environment Audit @ 1.5 lakhs/annum	1.50	5	Regular monitoring of CSR & RR plan	2.00	6	CTO (Consent to operate)	3.50	7	Revenue Nature Expenditure of Mine	105.46	8	Subsidence Management (Surface land	13.48
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S. No.	Observations	Reply submitted by the PP		
			Total Revenue nature cost per annum	200.94
2	Affidavit that no mining activity has been carried out in the land area being reduced.	PP submitted the same.		
3	Honorable Supreme Court Judgement for the forestland involved	PP submitted the same.		

### Observation and deliberation of the EAC:

#### 27.6.19: The Committee noted the following:

1. The instant proposal is for revalidation of EC accorded by M/s South Eastern Coalfields Ltd for Katkona Underground Coal Mine vide letter no. No.J-11015/219/2005-IA.II(M), dated 20.06.2006 for production capacity of 0.36 MTPA in the ML area of 1130.929 Ha under the EIA Notification, 1994. The revalidation of EC granted is under EIA Notification 2006 (as amended) as per the provision of S.O 1530(E) dated 06.04.2018 read with OM dated 16.02.2021.
2. The instant proposal of revalidation involves reduction in ML area from 1130.929 Ha to 1052.479 Ha.
3. PP applied for revalidation of EC in PARIVESH Portal on 08.09.2018, i.e., well within the window period of 6 months (i.e. before 05.10.2018) and also submitted Form-1 as required under S.O 1530(E) dated 06.04.2018 for the re-validation of EC under EIA Notification 2006 (as amended).
4. The project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018.
5. CTO renewal has been obtained from the SPCB and is valid up to 31.10.2025.
6. Committee observed that the coal block of 2400.965 Ha was acquired by the PP under the CBA Act, 1957 vide S.O. 1251 dated 27.04.1963, S.O. 1852 dated 17.06.1994, S.O. 155 dated 04.01.2000 and S.O. 1899 dated 18.07.1992. The rights are vested with the coal producing company perpetually. There is an adjacent mine Pandavpara Underground Coal Mine Project (0.50MTPA) of M/s South Eastern Coalfields Ltd. (SECL) with EC area of 972.036 ha exist within 2400.965 ha. However, the mining activity for Katkona UG is restricted to 1052.479 Ha only. Committee deliberated on the status of mining in the remaining 376.45 Ha of block area and observed that no mining activity has been carried out by the PP in the remaining 376.450 Ha of block area. Committee also observed that, the said land is coal bearing area and will be used for future expansion. Committee opined that the remaining 376.450 Ha of block area shall be clearly demarcated and no mining related activity shall be carried out in the same till the time a fresh EC for the same is not obtained.
7. The project involves 1048.149 Ha of forestland and Stage – I forest clearance for 200.209 ha is yet to be obtained. Committee observed that, at the time of obtaining the EC vide letter dated 20.06.2006, there was 1033.729 ha forestland within the Environmental Clearance (EC) boundary of 1130.929 Ha. The land scheduled has been changed to 1048.149 ha due to reclassification of land use as stated by PP. In Compliance of the same, the PP submitted the application for obtaining Stage – I forest clearance of 200.209 Ha of forestland.

8. Committee sought clarification regarding the status of mining activities carried out under 1048.149 Ha of forest land. The Committee observed that the project proponent has submitted a communication letter from the Divisional Forest Officer (DFO) regarding the status of the total forest land involved in the Katkona Underground (UG) coal mine, which stated that out of the total forest land, an area of 298.000 Ha has been granted Stage-II Forest Clearance under FC No. 8-87/93-FC dated 31.07.1995. Additionally, 549.940 Ha has received Stage-I Forest Clearance vide FC No. F.No.8-1/2006-FC dated 14.06.2006, and mining operations in this area are being carried out in accordance with the Supreme Court Order dated 16.12.2005. Furthermore, 200.209 Ha is part of a new forest clearance proposal, registered under Forest Registration No. FP/CG/MIN/QRY/503645/2024 dated 10.01.2025, and no mining activity has been undertaken in this area by the mine management so far.

Committee opined that revalidation of EC cannot be given without obtaining Stage – I forest clearance, for the quantum of forestland involved in the ML area and PP shall first obtain the Stage – I forest clearance on 200.209 Ha of forestland. Committee further opined, the Member Secretary may simultaneously seek comments from the Forest Division, whether revalidation of EC in such cases can be accorded by delinking the forestland as requested by the project proponent.

9. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. There are presences of Schedule – I species (namely: Monitor Lizard, Sloth Bear and Golden Jackal, etc), and a wildlife conservation plan has been prepared and submitted to Chief Wild Life Warden, Raipur. Approval on the same is yet to be obtained.
10. Mining plan along with mine closure plan approved in the 269<sup>th</sup> Meeting of CoFD, SECL held on 29.01.2025 for the ML area of 1052.479 Ha, for the production capacity of 0.36 MTPA.
11. Method of Mining to be adopted shall be Underground mining, with bord and pillar method of mining.
12. Net geological reserve reported in the mine lease area is 92.52 MT with 53.05 MT mineable reserves. The percentage of extraction is 70%. Out of total mineable reserve of 53.05 MT, 19.312 MT coal is available for extraction as on 01.04.2024.
13. Life of mine is 54 years (as on 31.03.2024) and grade of coal is SC-II and G9.
14. Committee observed some discrepancy in the EMP cost. PP rectified the same and submitted.
15. Committee deliberated on the method of transportation of coal and observed that, the entire coal is being evacuated by road. Since the production capacity of the said mine is less, not much load is there on the road, due to transportation of coal. However, Committee opined that PP shall take all precautionary measures to mitigate air pollution due to coal transportation. Adequate plantation shall be done on both the side on the roads through which coal is being transported.

16. Committee deliberated on the baseline data submitted by the PP and observed that, all the parameters are within the prescribed limits. However, Committee opined that PP shall continue with the environment protection measures, and further focus on sustainability mining activities. PP shall introduce measures of solar lights, plantation drives, etc.
17. Committee deliberated on the water requirement of the said project and observed that, the total water required for the said project is 492 KLD (175 KLD for industrial use + 317 KLD for domestic use). The source of water is ground water and mine seepage water. NoC from CGWA has been obtained by the PP vide no. - CGWA/NOC/MIN/REN/1/2022/7086 dated 08.07.2022 valid till 23.01.2023 and approval letter of NOC renewal is awaited. The excess mine water after treatment in being released in to local nallah for irrigation. Being an underground mine, there is no diversion of any waterbody previously done in the said project and none is proposed in future.
18. Committee observed that, advertisement for public consultation through written submissions was given in accordance to Ministry's OM dated 16.02.2021, in Times of India dated 15.04.2022 and Local Newspaper Patrika dated 15.04.2022 through RO, CECB, Raipur. As per the CECB, Raipur letter no. 2582 dated 08.07.2022, no written comments/ suggestions/ objections were received from the public.
19. Committee further deliberated on the action plan for next 54 years of old public hearing that took place on 11.04.2005 and observed that, the PP has allocated a budget of Rs. 200 Lakhs. Committee opined that, PP shall implement the same in a time bound manner and along with this, the PP shall also strengthen the primary health centres and community health centres in the study area.
20. In pursuant to OM dated 16.02.2021, PP also submitted that there has been no change in mining namely mining method, mining plan, mineral transportation, water requirement, reclamation plan after obtaining EC for production capacity of 0.36 MTPA.
21. Committee further observed that, existing capital cost of the project is Rs. 106.28 Cr. As per the original EMP the proposed capital and revenue expenditure was Rs. 52 Lakhs and Rs. 238.45 Lakhs respectively. The capital cost proposed for environmental measures is Rs. 620.266 lakhs and recurring cost is Rs. 200.94 Lakhs per year. Committee opined that the same shall be efficiently implemented in a time – bound manner.
22. Committee deliberated on the plantation activities already carried out by the PP in the ML area and observed that, existing greenbelt / plantation in the mine premises has been done in approx. 6.8 ha area which is about 0.65 % of the total project area of 1052.479 ha with total sapling of 17000 Trees. Proposed greenbelt will be developed in 57.2 ha which is about 5.06 % of the total project area. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 23425 saplings will be planted and nurtured in 9.37 hectares in 05 years.
23. Committee opined that there is a lot of space available with the PP for plantation and there is good scope of plantation. Committee opined that PP shall focus on agro

forestry, community plantation on the land purchased for surface rights.

24. Committee observed that, all land compensation has already been given to the land users against 4.33 Ha land and Employment has been provided to 41 individuals.
25. Committee deliberated on the Certified Compliance Report and observed that, the status of compliance of earlier EC was obtained from Regional office of Chhattisgarh Environment Conservation Board (SPCB) vide letter no-10735 dated 14.02.2025 in name of Katkona Underground Coal mine and subsequently forwarded by the Member secretary of CECB vide Letter no-2435 dated 09.01.2025. No non-complied/partially complied conditions reported in Certified Compliance report of EC 0.36 MTPA of Katkona UG Coal Mine.
26. There are no court cases related to environment pending against the instant project.
27. Committee opined that the PP shall align its activities with the sustainable development goals.
28. The EAC also deliberated on the written submissions of the project proponent and found it satisfactory.
29. The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

**Recommendations of the Committee:**

**27.3.20:** In view of the foregoing and after detailed deliberations, the committee *deferred* the instant proposal for grant of revalidation of EC and sought for Stage – I forest clearance for the 200.209 Ha of forestland involved in the ML area. The committee also recommended that Ministry shall seek views/comments of Forest Conservation Division whether revalidation of EC in such cases can be accorded by the Ministry by delinking the forestland as requested by the project proponent.

**DAY – 2: 19<sup>TH</sup> JUNE 2025 [TUESDAY]**

**Agenda Item No. 27.7:**

**27.7: Gangaramchak and Gangaramchak Bhadulia Coal Mine (increase in ML are from 186.42 Ha to 268 Ha having production capacity of 3 MTPA) by M/s West Bengal Power Development Corporation Limited, located at village: Bastabpur; Tehsil: Khoyrasole; District: Birbhum; State: West Bengal – Prescribing of Terms of Reference – reg.**

**[Online Proposal No. IA/WB/CMIN/524299/2025; Consultant: P&M Solution - NABET/EIA/2326/RA 0298\_Rev.01 valid up to 07.05.2026]**

**27.7.1:** M/s West Bengal Power Development Corporation Limited (WBPDCCL) has made an application online vide proposal no. IA/WB/CMIN/524299/2025 dated 27.05.2025 along with the application in prescribed format (CAF and Form-I), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at Item No.1 (a) Under Category “B” of the schedule and attracts general condition due to the interstate boundary at a distance of 0.62 km, it is being appraised at Central Level.

Gangaramchak and Gangaramchak Bhadulia Coal Mine is proposed for 3 MTPA production capacity with increase in ML area from 186.42 Ha to 268 Ha, is located at village: Bastabpur; Tehsil: Khoyrasole; District: Birbhum; State: West Bengal.

**Details of the proposal, as ascertained from the proposal documents and as revealed from the discussion held during the meeting, are given as under:**

**27.7.2: The Committee noted the following during the meeting:**

1. The instant proposal is for grant of terms of reference to Gangaramchak and Gangaramchak Bhadulia Coal Mine (increase in ML are from 186.42 Ha to 268 Ha having production capacity of 3 MTPA) by M/s West Bengal Power Development Corporation Limited, located at village: Bastabpur; Tehsil: Khoyrasole; District: Birbhum; State: West Bengal.
2. Gangaramchak and Gangaramchak Bhadulia Coal Mine originally obtained the EC vide letter dated 17.05.2007 for the production capacity of 1 MTPA within the ML area of 150 Ha, which later got transferred to M/s West Bengal Power Development Corporation Limited vide letter dated 20.12.2018. The same was further given expansion EC with increase in ML area from 150 Ha to 186.42 Ha and increase in production capacity from 1 MTPA to 1.2 MTPA, vide letter dated 27.12.2022. Further, another expansion in EC was given vide letter dated 12.10.2023, with increase in production capacity from 1.2 MTPA to 3 MTPA within the same leas area of 186.42 Ha.
3. During the deliberation process, Committee observed various discrepancies and shortcomings in the information and documents submitted by the PP and opined that the same shall be rectified and re submitted.
  - a) Project proponent shall submit the status of Wildlife Conservation Plan for the schedule – I species present within the study area.
  - b) Approved Mine Plan along with the Mine Closure Plan for production capacity of 3 MTPA within the ML area of 268 Ha shall be submitted.
  - c) Mine lease documents of the entire 268 Ha of ML area proposed for the instant project shall be submitted.
  - d) Water withdrawal permission/ application submitted to the competent authority for the 150 KLD, proposed to be used in the instant project shall be submitted.
  - e) Apart from this, the EAC observed that the agenda documents circulated, were incomplete and involved various discrepancies (such as diversions previously done and further proposed, mitigation measures proposed for the sensitive receptors, details of rehabilitation and resettlement, details of plantation, total of land use pattern, incomplete solid and hazardous waste generation details, etc) despite the fact, that the documents were sent way beyond the desired date. Committee took a serious view at it and warned the proponent as well as

consultant, not to repeat the same in future.

4. It was further apprised by the Member Secretary to the EAC that the project proponent was in receipt of a show cause Notice from Ministry for various non-compliances in the conditions of previous Environment Clearance. PP submitted the reply of the same to the Compliance and Monitoring Division of the Ministry. Committee opined that the details of the show cause notice and the reply submitted thereto, shall also be submitted to the EAC along with the above mentioned information and documents.

**Recommendations of the Committee:**

**27.7.3:** In view of the foregoing and after detailed deliberation, the Committee ***returned the proposal in its present form*** and asked the proponent to submit a fresh proposal by addressing all the discrepancies as mentioned above.

**Agenda Item No. 27.8:**

27.8: Ramakrishnapur Opencast Project (ML area: 1209.249 Ha having production capacity of 3.75 MTPA) by **M/s Singareni Collieries Company Limited**, located at **villages: Mandamarri, Kyethenpalle, Sarangapalle, Amerwadi, Naspur, Garmilla; District: - Mancherial; State: Telangana – Prescribing of Terms of Reference – reg.**

**[Online Proposal No. IA/TG/CMIN/514857/2025; Consultant: Environment Protection Training And Research Institute - NABET/EIA/24-27/RA 0337 valid up to 21.01.2027]**

**27.8.1:** M/s. Singareni Collieries Company Limited has made an application online for the proposed Ramakrishnapur Opencast (RKP OC) Project (Phase-II) vide proposal No. IA/TG/CMIN/514857/2025 dated 08.01.2025 along with the application in prescribed format (CAF & Form-I), copy of pre-feasibility report seeking for Terms of Reference (ToR) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No.1 (a) (Mining of Minerals) Under Category “A” of the schedule of the EIA Notification, 2006 and does not attract general condition being appraised at Central Level.

Ramakrishnapur Opencast Project is proposed for extension of the existing project RKP OC Phase-I (closed, was operational till February 2025) by conversion of the adjoining closed RK-1A (closed), RK-3 (closed) and remaining part of MK-4 (closed) & RK-4 (closed) Inclines into opencast mine, for the production capacity of 3.75 MTPA within the ML area of 1209.249 Ha, located at villages: Mandamarri, Kyethenpalle, Sarangapalle, Amerwadi, Naspur, Garmilla; District: - Mancherial; State: Telangana.

**Details of the proposal, as ascertained from the proposal documents and as revealed from the discussion held during the meeting, are given as under:**

**27.8.2: Details of previous approvals:**

Sl. No.	Details of Letter No.	EC/Expansion EC/Amendment in EC/Validity/extension/Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of issuance	Status of implementation
1	Ramakrishnapur Opencast Coal	EC	2.50	637.52	16.03.2010	Project was operational up

Sl. No.	Details of Letter No.	EC/Expansion EC/Amendment in EC/Validity/extension/Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of issuance	Status of implementation
	Mine Project (Phase-I) (RKP OC-I) -J-11015/219/2008 -IA.II(M).					to February - 2025
2	RK No. 1A incline	EC	0.54	202.00	11.02.1986	Mine closed
3	RK-3 incline	The mine was closed in 2001 due to exhaustion of coal reserves. Mine was operated at 1993-94 base level production. EC was not existing.				
4	MK- 4 incline	The mine was closed in 2009 due to exhaustion of coal reserves. Mine was operated at 1993-94 base level production. EC was not existing.				
5	RK-4 incline	The mine was closed in 1998 due to exhaustion of coal reserves. Mine was operated at 1993-94 base level production. EC was not existing.				

Following are the production details of the above-mentioned mines:

**A. RKP OC Phase-1 project:**

Year	Sanctioned EC capacity (in MTPA)	Actual production (in MTPA)	Excess production beyond the EC sanctioned capacity
2013-14	3.40	0.330	Nil
2014-15		0.900	Nil
2015-16		0.840	Nil
2016-17		1.714	Nil
2017-18		1.276	Nil
2018-19		1.764	Nil
2019-20		1.960	Nil
2020-21		0.600	Nil
2021-22		2.200	Nil
2022-23		1.881	Nil
2023-24		1.872	Nil
2024-25		0.918	Nil

**B. RK-1A Incline:**

Year	Sanctioned EC capacity (in MTPA)	Actual production (in MTPA)	Excess production beyond the EC sanctioned capacity
1990-91	0.54	0.041	Nil
1991-92		0.084	Nil
1992-93		0.184	Nil
1993-94		0.250	Nil
1994-95		0.257	Nil
1995-96		0.213	Nil

Year	Sanctioned EC capacity (in MTPA)	Actual production (In MTPA)	Excess production beyond the EC sanctioned capacity
1996-97		0.225	Nil
1997-98		0.250	Nil
1998-99		0.276	Nil
1999-2000		0.276	Nil
2000-01		0.305	Nil
2001-02		0.312	Nil
2002-03		0.326	Nil
2003-04		0.316	Nil
2004-05	0.54	0.266	Nil
2005-06		0.282	Nil
2006-07		0.274	Nil
2007-08		0.294	Nil
2008-09		0.330	Nil
2009-10		0.300	Nil
2010-11		0.240	Nil
2011-12		0.210	Nil
2012-13		0.180	Nil
2013-14		0.145	Nil
2014-15		0.084	Nil
2015-16		0.140	Nil
2016-17		0.145	Nil
2017-18		0.173	Nil
2018-19		0.115	Nil
2019-20		0.115	Nil
2020-21		0.077	Nil
2021-22		0.088	Nil
2022-23		0.072	Nil
2023-24 (Up to Sept 2023)		0.023	Nil

### C. RK-3 Incline:

S. No	Year	Coal (in MT)	
		Base level production (1993-94)	Actual
1	1993-94	0.210	0.210
2	1994-95		0.186
3	1995-96		0.142
4	1996-97		0.129
5	1997-98		0.150
6	1998-99		0.103
7	1999-2000		0.100
8	2000-01		0.068

### D. MK-4 Incline:

S. No.	Year	Coal (in MT)	
		Base level production (1993-94)	Actual
1	1993-94	0.383	0.383
2	1994-95		0.340
3	1995-96		0.301

S. No.	Year	Coal (in MT)	
		Base level production (1993-94)	Actual
4	1996-97		0.308
5	1997-98		0.322
6	1998-99		0.353
7	1999-2000		0.320
8	2000-01		0.345
9	2001-02		0.342
10	2002-03		0.371
11	2003-04		0.364
12	2004-05		0.373
13	2005-06		0.370
14	2006-07		0.374
15	2007-08		0.334
16	2008-09		0.215
17	2009-10		0.115

#### E. RK-4 Incline:

S. No.	Year	Coal (in MT)	
		Base level production (1993-94)	Actual
1	1993-94	0.251	0.251
2	1994-95		0.238
3	1995-96		0.198
4	1996-97		0.210
5	1997-98		0.122
6	1998-99		0.049

**27.8.3: Environmental Site Settings:** The project area is covered under Survey of India Topo Sheet No. E44H5 & E44H9 (56 N/5 & 56 N/9) and is bounded by the geographical coordinates ranging from Latitudes: N18° 53' 30.91050" to N18° 57' 39.18884" and Longitude: E79° 28' 31.38236" to E79° 30' 11.19400".

Project does not fall in the Critically Polluted Area (CPA) / severely polluted Area (SPA), as per CEPI Assessment 2018.

**Forest Area:** The project involves total 611.799 Ha of forestland. Following are the details of approval accorded for forestland.

S. No.	Obtained vide letter No.	Area in Ha.	Stage-I/II	Validity of FC	Remarks
1	8-26/2010-FC,dt: 31.05.2013	202.50	Stage-II (Surface rights)	21.05.2030	RKP OC Ph-1 FL
2	No.F[C]A/16.1/AP/50/MIN/2408, dated 11.03.2003	8.26	Stage-II (Surface rights)	21.05.2030	RK-1A Incline FL. As per latest DGPS survey the extent is 8.3894 Ha
3	F.No.8-5/1988-FC (pt) dated 04.02.2013	366.4198	Stage-II (UG Rights)	21.05.2030	Part of 1105 Ha FL in North Godavari Mining Lease (NGML) diverted with UG rights for MK-4, RK-4, RK-3 & RK-1A Inclines.

S. No.	Obtained vide letter No.	Area in Ha.	Stage-I/II	Validity of FC	Remarks
					Application submitted for conversion of FL from UG to Surface
4	F.No.8-5/1988-FC (pt) dated 04.02.2013	34.49	Stage-II (UG Rights)	21.05.2030	Un disturbed FL
	<b>Total</b>	<b>611.799</b>			

Forestland of 34.49 Ha falling in the undisturbed area and it is a part of 1105 ha of forest land for which UG rights are obtained vide F.No.8-5/1988-FC (pt) dated 04.02.2013. Accordingly, approval is required for conversion from Underground to Surface rights of 366.4198 ha of FL. An application was already submitted to MoEF&CC vide FP / TG / MIN / QRY / 515159 / 2024 dated 18.12.2024 seeking surface rights for 366.4198 ha of FL.

**Protected Area:** The project is not located within 10 KM of any ESZ/ ESA/ national Park/ Wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/ Tiger corridor/ elephant corridor etc. The project does not involve the violation of WLP Act, 1972. There is presence of Schedule – I species within the study area (namely: Indian fox, Jungle cat, Common Mongoose, Indian Crested Porcupine, Indian Chameleon, Checkered Keelback, Indian Rat Snake, Indian Cobra, Indian rock python, Indian Monitor, Russell’s Viper, Shikra, Grey Junglefowl and Indian Peafowl) and a Wild life conservation plan for schedule-I species was prepared and approved by the Principal Chief Conservator of Forests and Chief Wildlife Warden for an amount of Rs. 554.70 lakhs vide letter no. PCCF-WL1/WL14/9/2022 dated- 05.02.2023.

**Mining Lease:** Details of the mine lease area are as follows:

S. No.	Govt. Order/Notifications as the case may be	Area (ha)
1	• 3 <sup>rd</sup> renewal of North Godavari Mining Lease-NGML (4494.00 Ha) was granted vide G.o.Ms No.1 dated: 12.01.2015 and valid up to 21.05.2030.	1093.649
2	• Letter of Intent (LoI) for for appending to the mining lease was granted by State Government vide G.O.Rt.No.16, dated: 15.03.2024 and valid up to 21.05.2030.	115.600
<b>Grand Total</b>		<b>1209.249</b>

**Land details for the instant project are as follows:**

Nature of land involved	Area existing (Ha)	Additional proposed area (Ha)	Total area required (Ha)
<b>Non – forest land</b>	435.02	162.43	597.45
<b>Forest land</b>	202.5	409.299	611.799
<b>Total</b>	<b>637.52</b>	<b>571.729</b>	<b>1209.249</b>

**Other Sensitive Receptors:**

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
i. Habitation	<b>Village</b>	<b>Distance (km)</b>	<b>Direction</b>
	Amaravadhi	0.75	S-W
	Ramakrishnapur	0.70	N-W
	B-Zone	0.50	S-W

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	Kyethenapalli	1.80	N-W
ii. School	<b>Schools</b>	<b>Distance in (km)</b>	<b>Direction</b>
	St. John's High School	0.90	N-W
	Singareni High School,	0.60	N-W
	Alphonsa High School.	0.90	N-W
	Govt. Primary School	0.99	N-W
iii. River/ Waterbody	<b>River/Nallah</b>	<b>Distance (km)</b>	<b>Direction</b>
	Pala vagu, a seasonal nallah	Flowing over the project area (Undisturbed area)	Flowing from northwest to northeast
iv. Forest	<b>Reserve Forest</b>	<b>Distance</b>	<b>Direction</b>
	Indaram Reserved Forest of Mancherla Division	Within the core zone	-
v. Archaeological Survey of India (ASI) protected site	No		
vi. Any other	No		

*No diversions are proposed for the said project.*

**27.8.4: Mining Plan and Mine Closure Plan:** Mining Plan (including Mine Closure Plan) (2nd Modification) for Ramakrishnapur Opencast (RKP OC) Project (Phase-II) was approved by MoC, GoI vide Application No. TEMCH/APP00295/2024, dated: 05.11.2024.

1. Method of mining operations by Open cast Mining method. Excavation of Coal is through shovel-dumper combination. The waste/OB handling is with shovel-dumper combination.
2. Total geological reserve reported in the mine lease area is 143.34 MT with 92.35 MT mineable reserves. Out of total mineable reserve of 92.35MT, 75.94 MT are available for extraction. Percent of extraction is 82.23%.
3. 16 seams with thickness ranging from 0.58 m to 6.76 m are workable. Grade of coal is G-11, stripping ratio 1:14.03.
4. Life of mine is 18 years are on 01.4.2025.
5. The project has one external OB dump in an area of 262.670 ha with 120 m height and 159.51 Mm<sup>3</sup> of OB. One internal OB dump in an area of 415.637 ha with 512.62 Mm<sup>3</sup> of OB is envisaged in the project.

**6. Details of Land usage:**

**a. Pre-mining:**

Type	Description	Within ML Area (Ha)	Outside ML Area (Ha)	Total (Ha)
Tenancy / Private	Agricultural	7.641	Nil	7.641
	Grazing	5.712	Nil	5.712
	Barren	1.796	Nil	1.796
	Water Bodies	1.217	Nil	1.217
	Road	0.021	Nil	0.021
Govt. Non Forest	Agricultural	2.137	Nil	2.137
	Township	29.578	Nil	29.578
	Grazing	242.859	Nil	242.859
	Barren	295.185	Nil	295.185
	Water body	7.566	Nil	7.566

Type	Description	Within ML Area (Ha)	Outside ML Area (Ha)	Total (Ha)
	Road	3.738	Nil	3.738
Forest	Reserve	611.799	Nil	611.799
	Protected	-	Nil	-
<b>Grand Total</b>		<b>1209.249</b>		<b>1209.249</b>

b. Post-Mining (Ha)

Type	Reclaimed Area (Ha)		Un-reclaimed Area (Ha)		Total
	Plantation	Others	Plantation during Post Closure	Others	
Excavation Area					
<i>Backfilled Area</i>	309.201		106.436		415.637
<i>Excavated Void</i>				273.407	273.407
External Dump	246.100		16.570		262.670
Safety Zone & Green Belt	111.028		7.511	4.327	122.866
Road diversion		1.854			1.854
Diversion/ below River/Nala/canal		3.725			3.725
Settling Pond		6.572			6.572
Roads & Infrastructure area	3.628		17.252	24.798	45.678
Garland drains		10.512			10.512
Embankment	3.272		0.625		3.897
Undisturbed/Mining right for UG)				62.431	62.431
<b>Total</b>	<b>673.229</b>	<b>22.663</b>	<b>148.394</b>	<b>364.963</b>	<b>1209.249</b>

7. Details of transportation of Coal:

- In pit to surface: Coal from pit to pithead by dumpers/conveyor belts.
  - Surface to siding: Belt Conveyor up to 2 km.
  - Siding to loading: Railway
  - Quantity being transported by Road/ Rail/ Conveyor/ Ropeway: Till the time mine was in operation, about 2.5 MTPA coal is being extracted as per the Existing ECs and dispatched through CHP by rail mode.
  - Proposed change in transportation means: The capacity of the existing CHP is sufficient to dispatch the enhanced peak production capacity of 3.75 MTPA.
8. Reclamation: Afforestation shall be done progressively covering an area of 673.299 Ha which shall include reclaimed external OB dump of 246.100 Ha, internal dump of 309.201 Ha and greenbelt in 111.028 Ha. Density of plantation shall be 2500 plants per Ha. A void of 273.407 Ha with a depth of 250 m shall be converted into water body.

27.8.5: Baseline Data:

Period	March 2023 to May 2023 (Summer Season)
AAQ parameters At 3 locations of core zone and 9 locations of buffer zone	<b>Core zone:</b> $PM_{2.5} = 45.0 \text{ to } 87.2 \mu\text{g}/\text{m}^3$ $PM_{10} = 141.0 \text{ to } 197.0 \mu\text{g}/\text{m}^3$ $SO_2 = 13.4 \text{ to } 19.9 \mu\text{g}/\text{m}^3$ $NO_x = 16.9 \text{ to } 23.0 \mu\text{g}/\text{m}^3$ <b>Buffer Zone:</b>

Period	March 2023 to May 2023 (Summer Season)																																						
(min and max)	PM <sub>2.5</sub> = 17.1 to 32.4 µg/ m <sup>3</sup> PM <sub>10</sub> = 35.0 to 69.0 µg/ m <sup>3</sup> SO <sub>2</sub> = 7.6 to 13.8 µg/ m <sup>3</sup> NO <sub>x</sub> = 10.6 to 16.7 µg/ m <sup>3</sup>																																						
Incremental GLC Level	Shall be included at the time of submitting EIA/ EMP report																																						
Ground water quality at 4 Locations	pH: 7.1 to 7.7 Total Hardness: 254 to 552 mg/l, Total Dissolved Solids : 389 to 1405 mg/l Fluoride: 0.39 to 0.71 mg/l. The concentrations of heavy metals Cadmium (Cd), Copper (Cu), Lead (Pb), Zinc (as Zn), Arsenic (as As), Chromium (Cr), were either below the detection limits or below the permissible limits.																																						
Surface water quality at 4 Locations	pH: 7.2 to 8.2 DO: 5.4 to 6.4 mg/l. BOD: 1.2 to 3 mg/l. Total Coliform: 49 to 540 MPN/100ml.																																						
Noise levels Leq (Day and Night)	<b>Industrial Area:</b> 54.3 to 62.1 for the day time and 44.0 to 50.4 for the Night time. <b>Residential Area:</b> 48.0 to 50.5 for the day time and 37.6 to 40.6 for the Night time.																																						
Traffic assessment study findings	<p>The traffic density study has been carried out one at RKP OCP to RKP CHP Middle point near DOT Company and second at RKP Area hospital junction way to SRP CHP Mandamarri Area.</p> <p>The peak PCU/hr at RKP OCP to RKP CHP for total vehicles during the study was 240 PCU/hr at 11.00 - 12-00 hrs. The peak PCU/hr RKP Area hospital junction way to SRP CHP for total vehicles during the study was 603 PCU/hr at 11.00 - 12-00 hrs. The existing level of service (LOS) is:</p> <table border="1"> <thead> <tr> <th>Location</th><th>Road</th><th>V (volume in PCU/ hr)</th><th>C (Capacity in PCU/ hr)</th><th>Existing V/C Ratio</th><th>LoS</th></tr> </thead> <tbody> <tr> <td>T-1 Between RKP OC – RKP CHP</td><td rowspan="2">02 Lane (Two-Way) undivided of 07 m Width</td><td>240</td><td>1200</td><td>0.20</td><td>A (Excellent)</td></tr> <tr> <td>T-2 Between RKP AH – SRP CHP</td><td>603</td><td>1200</td><td>0.50</td><td>C (Good)</td></tr> </tbody> </table> <p>PCU load after proposed project will be 240 &amp; 603 PCU/hr (Existing) + 7 (Additional) PCU/hr and level of service (LOS) will be :</p> <table border="1"> <thead> <tr> <th>Location</th><th>Road</th><th>V (volume in PCU/ hr)</th><th>C (Capacity in PCU/ hr)</th><th>Existing V/C Ratio</th><th>LoS</th></tr> </thead> <tbody> <tr> <td>T-1 Between RKP OC – RKP CHP</td><td rowspan="2">02 Lane (Two-Way) undivided of 07 m Width</td><td>247</td><td>1200</td><td>0.20</td><td>A (Excellent)</td></tr> <tr> <td>T-2 Between RKP AH – SRP CHP</td><td>610</td><td>1200</td><td>0.50</td><td>C (Good)</td></tr> </tbody> </table> <p>Note: Capacity as per IRC-106-1990 Guide line for capacity for roads.                      Conclusion: The level of service will ‘A’ and ‘C’ .</p>					Location	Road	V (volume in PCU/ hr)	C (Capacity in PCU/ hr)	Existing V/C Ratio	LoS	T-1 Between RKP OC – RKP CHP	02 Lane (Two-Way) undivided of 07 m Width	240	1200	0.20	A (Excellent)	T-2 Between RKP AH – SRP CHP	603	1200	0.50	C (Good)	Location	Road	V (volume in PCU/ hr)	C (Capacity in PCU/ hr)	Existing V/C Ratio	LoS	T-1 Between RKP OC – RKP CHP	02 Lane (Two-Way) undivided of 07 m Width	247	1200	0.20	A (Excellent)	T-2 Between RKP AH – SRP CHP	610	1200	0.50	C (Good)
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T-2 Between RKP AH – SRP CHP		610	1200	0.50	C (Good)																																		
Flora and fauna	There are 14 Schedule – I species present in the study area (namely: Indian fox, Jungle cat,																																						

Period	March 2023 to May 2023 (Summer Season)																					
	Common Mongoose, Indian Crested Porcupine, Indian Chameleon, Checkered Keelback, Indian Rat Snake, Indian Cobra, Indian rock python, Indian Monitor, Russell’s Viper, Shikra, Grey Junglefowl and Indian Peafowl), A Wild life conservation plan for Mandamarri group of mines was prepared for schedule-I species and approved by the Principal Chief Conservator of Forests and Chief Wildlife Warden for an amount of Rs.554.70 lakhs, vide letter no.PCCF-WL1/WL14/9/2022 dated-05.02.2023.																					
Water Requirement	<p>Sources of water</p> <p>a) Surface water – Nil</p> <p>b) Ground Water – Nil</p> <p>c) Other (Mine Seepage Water) – 3500 KLD (for dewatering purpose)</p> <p>The mine has obtained No Objection Certificate from SGWA vide vide Lr. No. 157/T/2008, dated: 30.04.2009.</p> <p>The estimated water to be pumped out from the proposed project is about 3500 m3/day. After meeting the mine requirement of 850 m3/day (720 m3/day: Dust suppression, 50 m3/day: HEMM washing, 60 m3/day : Plantation, 20 m3/day: domestic) the balance 2650 m3/day will be is released into nearby streams/tanks after treatment.</p> <p>Ground Water Intersection:</p> <p>Pre-monsoon – 2.11 m to 23.75 m bgl</p> <p>Post-monsoon – 0.61 m to 20.63m bgl</p> <p><b>Water Requirement:</b></p> <table><tr><th>S. No.</th><th>Purpose</th><th>Demand (M³/day)</th></tr><tr><td>1.</td><td><b>Industrial Use</b></td><td><b>830</b></td></tr><tr><td>1.1</td><td>Dust Suppression at Stock Yard and transportation route</td><td>720</td></tr><tr><td>1.2</td><td>HEMM Washing</td><td>50</td></tr><tr><td>1.3</td><td>Greenbelt Development</td><td>60</td></tr><tr><td>2.</td><td><b>Domestic/Portable water</b></td><td><b>20</b></td></tr><tr><td colspan="2"><b>Total</b></td><td><b>850</b></td></tr></table> <p>Excess mine water after treatment in being released into nearby streams/tanks after treatment for irrigation and local use.</p> <p>NOC (For surface water): NA</p> <p>NOC (Ground Water): Existing SGWA NOC for ground water extraction has been obtained Certificate from SGWA vide vide Lr. No. 157/T/2008, dated: 30.04.2009.</p>	S. No.	Purpose	Demand (M³/day)	1.	<b>Industrial Use</b>	<b>830</b>	1.1	Dust Suppression at Stock Yard and transportation route	720	1.2	HEMM Washing	50	1.3	Greenbelt Development	60	2.	<b>Domestic/Portable water</b>	<b>20</b>	<b>Total</b>		<b>850</b>
S. No.	Purpose	Demand (M³/day)																				
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1.3	Greenbelt Development	60																				
2.	<b>Domestic/Portable water</b>	<b>20</b>																				
<b>Total</b>		<b>850</b>																				

**27.8.6: Details of Water Requirement:** Total water requirement for the said project is 850 KLD, out of which 720 KLD shall be utilized for dust suppression, 50 KLD will be utilized for HEMM washing, 60 KLD will be utilized for plantation and 20 KLD will be utilized for domestic purpose. Source of water shall be mine seepage water and the permission for the same has been obtained vide Lr. No. 157/T/2008, dated: 30.04.2009 (for RKP OC Phase-I). Ground water clearance for the proposed RKPOC Phase-II project will be obtained after obtaining EC. No water body is proposed for diversion. Further, Pala Vagu seasonal nallah flowing within the ML area will be strengthened.

**27.8.7: Details of Power Requirement and diversion of High-Tension/Transmission Line:** The power requirement for this project is about 4.20 MVA. The source of power supply is from 132 /33kV substation of SCCL, Mandamarri. 2 Nos. of 33 KV feeders are already feeding power to this project from 132/33KV substation and they are adequate to meet the future requirement also. Further, no HT Line/ Transmission Line is proposed for diversion.

**27.8.8: Details of Solid and Hazardous Waste Generation:** The details of solid and hazardous waste generation along with its mode of treatment/ disposal is furnished as below:

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal	Remarks
1	Overburden	Excavation	87500000	Nil	Dumping in External and Internal dump yards	Solid Waste
2	Plastic	Bottles, Covers, Furniture	0.01	To authorized recyclers	To authorized recyclers	Solid Waste
3	Lead acid batteries	HEMM	1	To authorized recyclers	To authorized recyclers	Hazardous Waste
4	Used oil	HEMM	30	To authorized recyclers	To authorized recyclers	Hazardous Waste

**27.8.9: Plantation:** Out of 1209.429 ha of ML area, plantation will be done in phased manner in an area of 821.623 ha over the dump yards, safety zone, block plantation, avenue plantation, green belt and infrastructure area, etc. at the mine closure stage. An area of 62.43 ha will be undisturbed land.

The details of Stage wise plantation are furnished here under:

Stage	Stage Wise Plantation (ha)	Cumulative Plantation (ha)	Total cost in Rs.
Initial stage	182.886	182.886	2,74,32,900
Y-1/Stage-I	35.999	218.885	56,69,843
Y-3/Stage-III	52.231	271.116	90,49,021
Y-5/Stage-V	129.392	400.508	2,46,58,880
Y-10/Stage-X	135.164	535.672	3,21,98,599
Y-15/Stage-XV	131.411	667.083	3,91,30,705
Y-18/Final	6.146	673.229	21,04,633
Post Closure	148.394	821.623	6,35,19,950
			<b>20,37,64,531</b>

**27.8.10: Rehabilitation & Resettlement Plan:** The project is an extension to the existing project annexing the closed UG mines and the land is already acquired, no R&R is involved in balance life of the mine.

**27.8.11: Project Cost:** The total capital cost of the project is Rs. 442.90 crores.

**27.8.12: Legal Issues/ Violation:** PP reported that there is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

**27.8.13: Written Submissions:** PP submitted the following information during the meeting:

S. No.	Observations	Response of PP
1.	Environmental sensitivity within 10 km buffer zone with distance and direction from the project site.	PP submitted the details of the same

S. No.	Observations	Response of PP		
		Year / Stage	Stage Wise Plantation (ha)	Total cost in Rs.
2.	Budget for plantation	Initial stage	182.886	2,74,32,900
		Y-1/Stage-I	35.999	56,69,843
		Y-3/Stage-III	52.231	90,49,021
		Y-5/Stage-V	129.392	2,46,58,880
		Y-10/Stage-X	135.164	3,21,98,599
		Y-15/Stage-XV	131.411	3,91,30,705
		Y-18/Final	6.146	21,04,633
		Post Closure	148.394	6,35,19,950
		<b>Total</b>	<b>821.623</b>	<b>20,37,64,531</b>
		<p><i>Green belt details along with budget:</i></p> <p>An amount of Rs.80,89,800 will be spent towards development of 26.966 ha of green belt.</p>		
3.	Translocation of trees	It is proposed to translocate 1000 trees of native species and some more will be taken up depending on the suitability of trees and soil.		
4.	Land use of 8.26 ha	Land use for 8.26 ha (8.3894 as per DGPS survey) will be changed from infrastructure to quarry.		
5.	Sought details whether forest authorities have been informed regarding the retention of 34.49 ha undisturbed forest land.	<p>The forest authorities have been informed during submission of application for Stage-I Forest diversion of 366.4198 ha from underground to surface rights.</p> <p>It is requested to kindly consider the submitted clarifications and issue Terms of Reference to the proposed Ramakrishnapur Opencast Project Phase-II.</p>		

### Deliberations and Observation of the Committee:

#### 27.8.14: The Committee noted the following:

1. The instant proposal is for grant of terms of reference for Ramakrishnapur Opencast Project (ML area: 1209.249 Ha having production capacity of 3.75 MTPA) by M/s Singareni Collieries Company Limited, located at villages: Mandamarri, Kyethenpalle, Sarangapalle, Amerwadi, Naspur, Garmilla; District: - Mancherial; State: Telangana.
2. Ramakrishnapur Opencast Project is proposed for extension of the existing project RKP OC Phase-I (closed, was operational till February 2025) by conversion of the adjoining closed RK-1A (closed), RK-3 (closed) and remaining part of MK-4 (closed)& RK-4 (closed) Inclines into opencast mine, for the production capacity of 3.75 MTPA within the ML area of 1209.249 Ha.
3. The details of the previous approvals obtained for the above mentioned mines are as mentioned in para no. 27.8.2. All the ECs or CTOs obtained has been implemented and mine operations are closed as on date.
4. The EAC took into consideration the project site through kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH.
5. Project does not fall in the Critically Polluted Area (CPA) / severely polluted Area (SPA), as per CEPI Assessment 2018.

6. The project involves total 611.799 Ha of forestland. Out of the total forestland involved, PP has already obtained Stage – II forest clearance for surface rights of 210.76 Ha. Application for Stage – II forest clearance for surface rights of 366.4198 Ha forestland has been submitted. And remaining 34.49 Ha of forestland on which PP has accorded Stage – II forest clearance for underground rights shall remain undisturbed. Committee opined that PP shall submit a letter from the DFO, stating that forest clearance is not required for the forestland, which will remain undisturbed.
7. The project is not located within 10 KM of any ESZ/ ESA/ national Park/ Wildlife sanctuary/ biosphere reserve/tiger reserve/ elephant reserve/ Tiger corridor/ elephant corridor etc. The project does not involve the violation of WLP Act, 1972.
8. A Wildlife Conservation Plan for schedule-I species present in the study area has been prepared and approved by the Principal Chief Conservator of Forests and Chief Wildlife Warden for an amount of Rs. 554.70 lakhs vide letter no. PCCF-WL1/WL14/9/2022 dated 05.02.2023.
9. Committee deliberated on the sensitive receptors present in close vicinity of the ML area and observed that, there are various schools present within 1 km of the ML area. Committee opined that PP shall submit the plan to relocate these schools. If not proposed to be relocated, PP shall submit mitigation measures to be undertaken for these schools.
10. Mining Plan (including Mine Closure Plan) (2nd Modification) for Ramakrishnapur Opencast (RKP OC) Project (Phase-II) was approved by MoC, GoI vide Application No. TEMCH/APP00295/2024, dated 05.11.2024.
11. Method of mining operations by Open cast Mining method. Excavation of Coal is through shovel-dumper combination. The waste/OB handling is with shovel-dumper combination.
12. Total geological reserve reported in the mine lease area is 143.34 MT with 92.35 MT mineable reserves. Out of total mineable reserve of 92.35MT, 75.94 MT are available for extraction. Percent of extraction is 82.23%.
13. Life of mine is 18 years are on 01.04.2025. Grade of coal is G-11, stripping ratio 1:14.03.
14. Committee deliberated on the land use pattern of the said mine and observed that, the project involves grazing land. Committee opined that since the quantum of grazing land involved in the said project is more, the PP shall strictly adhere with the rules of State Government in this regard and provide alternate land for grazing to the villagers in consultation with the District Collector. Valid documents in this regard shall be submitted along with the application for EC.
15. Committee deliberated on the method of evacuation of coal proposed for the said mine and observed that, coal from pit to surface will be transported through dumpers or conveyor belt. From surface to siding, it is proposed to be transported through belt conveyor and then to the final consumers by railway.
16. During the deliberation, Committee observed that the area of void and the depth of void, which is proposed to be converted into water is too much. Committee opined, that the PP shall rework on the mine plan and reduce the area and depth of the proposed void.

17. Committee deliberated on the baseline data submitted by the PP and observed that, the parameters of particulate matter are on the higher side of the prescribed limits. Committee opined that, PP shall submit a time bound action plan along with the budgetary provisions to mitigate the air pollution being caused due to the mining activities. EMP shall accordingly prepared and submitted.
18. Total water requirement for the said project is 850 KLD, out of which 720 KLD shall be utilized for dust suppression, 50 KLD will be utilized for HEMM washing, 60 KLD will be utilized for plantation and 20 KLD will be utilized for domestic purpose. Source of water shall be mine seepage water and the permission for the same has been obtained vide Lr. No. 157/T/2008, dated: 30.04.2009 (for RKP OC Phase-I).
19. During the deliberation Committee observed that there is Pala Vagu seasonal nallah flowing within the project area, and the same is not proposed to be diverted as it is falling on land which is proposed to be undisturbed. Further, PP submitted that, the same will be strengthened.
20. The power requirement for this project is about 4.20 MVA. The source of power supply is from 132 /33kV substation of SCCL, Mandamarri. 2 Nos. of 33 KV feeders are already feeding power to this project from 132/33KV substation and they are adequate to meet the future requirement also.
21. Committee deliberated on the plantation proposed by the PP in the said mine and observed that, an area of 821.623 ha is proposed for plantation in phased manner as follows:

Stage	Stage Wise Plantation (ha)	Cumulative Plantation (ha)	Total cost in Rs.
Initial stage	182.886	182.886	2,74,32,900
Y-1/Stage-I	35.999	218.885	56,69,843
Y-3/Stage-III	52.231	271.116	90,49,021
Y-5/Stage-V	129.392	400.508	2,46,58,880
Y-10/Stage-X	135.164	535.672	3,21,98,599
Y-15/Stage-XV	131.411	667.083	3,91,30,705
Y-18/Final	6.146	673.229	21,04,633
Post Closure	148.394	821.623	6,35,19,950
			<b>20,37,64,531</b>

22. Committee deliberated on the rehabilitation and resettlement issues of the said mines and observed that, no R&R issues are there in the said mines, as this mine is in extension to an existing mine by annexing the closed underground mines, for which land has already been purchased.
23. The total capital cost of the project is Rs. 442.90 crores.
24. There is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Van (SanrakshanEvamSamvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

#### **Recommendations of the Committee:**

**27.8.15:** In view of the foregoing and after detailed deliberation, the Committee *recommended the above mentioned project* for grant of Terms of Reference by prescribing

following specific ToRs for undertaking detailed EIA and EMP study and conduct Public Consultation (along with the public hearing) in addition to generic ToR given at Annexure-I, subject to uploading of written submissions:

**Specific ToRs:**

1. Project Proponent shall submit the drone video & photographs of the ML area and transportation route proposed for this project with special focus on the sensitive receptors in the ML area and in the transportation route.
2. Project Proponent shall obtain fresh stage I FC for the 366.4198 Ha forestland involved in the mine lease area and status of the same as per MoEF&CC OM dated 9/09/2011 and its amendment shall be submitted.
3. Project Proponent shall submit a letter State Forest Department stating that no fresh forest clearance is required for the 34.49 Ha forestland, which will remain undisturbed.
4. Project proponent shall submit an action plan for relocation of schools located in close vicinity to the lease area in consultation with the State Government of Telangana.
5. A Cumulative Environmental Impact Assessment study of all the coal mines situated adjacent to the mine lease area shall be conducted and the same shall be included in the EIA/EMP report. Details of industrial units present in 10 Km radius of the ML area shall be earmarked in map and submitted.
6. PP shall submit a letter from the State Forest Department for the impact on the baseline data of the forest area due to the mining activities of the instant project.
7. Project proponent shall modify the mine plan in order to reduce the area and depth of the mine void which is proposed to be converted into water body.
8. Biodiversity analysis of the core zone and buffer zone of the ML area shall be done through any reputed NABET accredited institute. The study report shall inter-alia include impact of mining on flora and fauna and action plan for complying with the mitigation measures shall be submitted. The Ecology and biodiversity study should include likely impact of land use change in terms of use of forest area for surface infrastructural development in relation to the climate change of that area and what will be the affect after adopting the mitigation measures.
9. PP shall explore the possibilities of utilization of OB material for different purposes (in construction of roads/ manufacture of artificial sand, aggregates/ use for farmers etc.) and accordingly Plan shall be included in EIA/EMP Report.
10. Inpit conveyor belt with silo loading shall be proposed and installed for transportation of coal till railway siding.
11. Project proponent to prepare Environmental Cost Benefit Analysis for the project in EIA/EMP Report.
12. No mining activity shall be proposed on grazing land till the alternate land is provided of same area to the community. PP shall strictly adhere with the rules of State Government in this regard and provide alternate land for grazing to the villagers in consultation with the District Collector. Valid documents in this regard shall be submitted along with the application for EC.
13. Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted.
14. Project proponent shall prepare a plan for strengthening of the seasonal nallah (Pala Vagu) and the same shall be submitted along with the application of Environment Clearance.

15. The socio-economic study shall be conducted with actual survey report and a comparative assessment to be provided from the census data of 2011-part B to be provided in EIA/ EMP report also economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data of 2011 part A to be provided and to link it with the initialization and quantification of need based survey for CER activities to be followed.
16. A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality and noise quality with its proper measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.
17. Project proponent shall prepare the EIA-EMP report and thereafter conduct the Public Consultation, including public hearing, through concerned SPCB in the Mancherial District as per the provisions/procedure contained in the EIA Notification, 2006.
18. PP shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.
19. As per the Ministry's OM dated 30.09.2020, to address the concerns raised during Public Hearing, Project Proponent is required to submit the detailed activities proposed with year wise budgetary provision for next 5 years (Capital and recurring). Activities proposed shall be part of EMP.
20. PP should provide in the EIA Report details of all the statutory clearances, permissions, no objection certificates, consents etc. required for this project under various Acts, Rules and regulations and their status or estimated timeline after grant of EC.
21. The PP should submit the number of saplings to be planted in area to be covered under afforestation & green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development. In addition to this PP should show on a surface plan (5-year interval for life of mine) of suitable scale the area to be covered under afforestation & green belt clearly mentioning the latitude and longitude of the area to be covered during each 5 years. The capital and recurring expenditure to be incurred needs to be submitted. Plantation plan should be prepared in such a way that 80% of the plantation to be carried out in first 5 years and for the remaining years the proposal for gap filling. The seedling of height not less than 2 meters to be selected and accordingly cost of plantation needs to be decided. In addition to this plantation in the safety zone at lease boundary the plantation should be completed within 2 years only. PP should submit a concurrent plantation plan.
22. Project Proponent should submit the quantity of surface or ground water to be used for this project. The complete water balance cycle need to be submitted. In addition to this PP should submit a detailed plan for rain water harvesting measures to be taken. The PP should submit the year wise target for reduction in consumption of the ground/surface water by developing alternative source of water through rain water harvesting measures. The capital and recurring expenditure to be incurred needs to be submitted.
23. Project Proponent shall obtain water withdrawal permission from ground water authority for 850 KLD.

24. Project Proponent should clearly bring out the details of the manpower to be engaged for this project with their roles /responsibilities/designations. In addition to this PP should mention the number and designation of person to be engaged for implementation of environmental management plan (EMP). The capital and recurring expenditure to be incurred needs to be submitted.
25. Project Proponent should submit the year-wise, activity wise and time bound budget earmarked for EMP, occupational health surveillance, and activities proposed to address the issues raised during Public Hearing. The capital and recurring expenditure to be incurred needs to be submitted.
26. In case of ground water abstraction/intersection, the PP shall comply with the Ministry's OM dated 23/05/2019. Compliance status needs to be presented before EAC at the time of appraisal
27. Project Proponent should clearly bring out that what is the specific diesel consumption ~ (Liters/Tonne of total material handled) and steps to be taken for reduction of the same. The year-wise target for reduction in the specific diesel consumption needs to be submitted. PP shall also explore the possibility of using e-vehicles/LPG/CNG-based machinery and trucks for the operation and transportation of coal.
28. All the certificates viz. Involvement of Forest land, distance from protected area, and list of flora & fauna should be duly authenticated by the Forest Department. The Certificate should bear the name, designation, official seal of the person signing the certificate and dispatch number.
29. Details on waste water generation (Industrial and domestic), their treatment (technology, methodology and capacity) and disposal to be submitted.
30. Details on renewable energy proposed to be installed as energy conservation measures shall be submitted.
31. PP shall submit the action plan to adhere to the Plastic Waste Management Rules 2016 and to adhere Ministry's OM dated 18/07/2022.
32. PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of the Environment Management Plan vis-à-vis reduction in the concentration of emission for each APCE.
33. The PP should ensure that only NABET accredited consultant shall be engaged for the preparation of EIA/EMP Reports. PP shall ensure that accreditation of consultant shall be valid during the collection of baseline data, preparation of EIA/EMP report and during the appraisal process. The PP and consultant should submit an undertaking the information and data provided in the EIA Report and submitted to the Ministry are factually correct and PP and consultant are fully accountable for the same.
34. The PP should submit the photographs of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs which will analyse the samples.
35. Project proponent obtain a letter from the district collector as credible proof that rehabilitation and resettlement issues are involved in the said project and submit the same along with the application for Environment Clearance.

36. Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development.
37. Necessary coordination shall be made with concerned SPCB (who is responsible for Compliance of OM dated 14.01.2025) regarding streamlining the implementation of GSR 702 and GSR 703 dated 12.11.2024 through which projects requiring prior EC were exempted from requirement of CTE.

### **Agenda Item No. 27.9:**

27.9: Ramagundam Coal Mine (increase in ML area from 3266.88 Ha to 4326.08 Ha and increase in production capacity from 13.74 MTPA to 21 MTPA) **by M/s Singareni Collieries Company Limited** located at: villages: Pannur, Nagepally, Ladnapur, Ratnapur, Bhudavarampeta, Ramayyapalli, Vakilpalli, Jallipalli and Mulkalapalli; District: Peddapalli; State: Telangana - **Prescribing of Terms of Reference – reg.**

**[Online Proposal No. IA/TG/CMIN/533627/2025; Consultant: Environment Protection Training And Research Institute - NABET/EIA/24-27/RA 0337 valid up to 21.01.2027]**

**27.9.1:** M/s. The Singareni Collieries Company Limited has made an application online for the proposed Ramagundam Coal Mine (RG Coal Mine) vide proposal no. IA/TG/CMIN/533627/2025 dated 17.04.2025 along with the application in prescribed format (CAF & Form-I), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at Item. No. 1(a) (Mining of Minerals) Under Category “A” of the schedule of the EIA Notification, 2006 and does not attract general condition being appraised at Central Level.

Ramagundam Coal Mine Project is Conversion of UG Mines to OC (closed GDK 10 & working Vakilpalli sequentially) and Amalgamation of RG OC I Expansion Project, RG OC II Extension Project & Adriyala Longwall Project for enhancement of production capacity from 13.74 MTPA to 21 MTPA and increase in lease area from 3266.88 ha to 4326.08 ha. It is located at: villages: Pannur, Nagepally, Ladnapur, Ratnapur, Bhudavarampeta, Ramayyapalli, Vakilpalli, Jallipalli and Mulkalapalli; District: Peddapalli; State: Telangana. **Details of the proposal, as ascertained from the proposal documents and as revealed from the discussion held during the meeting, are given as under:**

### **27.9.2: Details of previous approvals:**

S. No.	Details of Letter No.	EC / Expansion EC / Amendment in EC / Validity extension / Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of issuance	Status of implementation
1	Ramagundam Opencast -I Coal Mine Project:	EC	1.5	710.13	11.09.2026	EC expansion obtained

S. No.	Details of Letter No.	EC / Expansion EC / Amendment in EC / Validity extension / Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of issuance	Status of implementation
	No. J-11015/142/ 2005-IA.II (M)					
	Ramagundam Opencast -I Coal Mine Expansion Project-Phase-II:No.J-11015/534/ 2007.IA.II (M),	EC Expansion	From 1.50 to 3.0 (peak 3.30 )	923.88	31.07.2008	EC expansion obtained under Violation category
	Ramagundam Opencast -I Coal Mine Expansion Project-Phase-II: F.No. 23-71/2018-IA (III) and EC Identification No. EC23A042TG157307	EC Expansion	From 3.30 to 5.30		16.01.2023	Violation category
2	Ramagundam O/c project-II No.J.11015/39/84-Env5-IA.II	EC	2.0	496.00	10.01.1992	EC expansion obtained
	Ramagundam Opencast-II Coal Mine Extension Project: No.J-11015/355/ 2007-A.II(M)	EC Expansion	2.0 to 4.0 (Peak-4.5)	2255.90	27.04.2010	EC expansion
3	Adriyala Shaft Coal Mining Project No.J-11016/24/ 2004-IA.II (M)	EC	2.144	340 Ha +23.90 Ha (outside the project area)	11.10.2004	EC expansion obtained
	Adriyala Shaft Underground Coal Mining Expansion Project: No.J-11015/24 /2004-IA.II (M)	EC Expansion	From 2.144 to 3.14		30.01.2015	EC expansion
4	GDK-9 Incline Extension Project (Vakilpalli Mine): No:J-11015/29/68 /IA.II	EC	0.45	205.34	14.08.1989	EC expansion obtained under violation category
	Vakilpalli Mine (GDK-9 Incline Extension Project ): No.23-253/2018IA.III(V) and EC identification No. EC24A042TG138067	EC	0.35		25.06.2024	Violation category
5	GDK 10 Incline (Closed Mine)-J-11015/14/86-IA	EC	0.45	234.00	09.07.1986	Mining operations stopped

**Details of actual coal production vis-à-vis sanctioned capacity since 1993-94 as follows:**

# 1. Ramagundam-I Opencast Coal Mine Project Expansion-Phase-II

Year	EC sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity (MTPA)
1993-94	3.3	2.33	0.00
1994-95	3.3	2.20	0.00
1995-96	3.3	2.33	0.00
1996-97	3.3	2.32	0.00
1997-98	3.3	2.06	0.00
1998-99	3.3	2.34	0.00
1999-00	3.3	2.85	0.00
2000-01	3.3	2.65	0.00
2001-02	3.3	3.08	0.00
2002-03	3.3	3.25	0.00
2003-04	3.3	2.65	0.00
2004-05	3.3	3.25	0.00
2005-06	3.3	3.22	0.00
2006-07	3.3	3.00	0.00
2007-08	3.3	1.62	0.00
2008-09	3.3	2.20	0.00
2009-10	3.3	2.98	0.00
2010-11	3.3	3.40	0.10
2011-12	3.3	4.08	0.78
2012-13	3.3	4.71	1.41
2013-14	3.3	5.29	1.99
2014-15	3.3	5.29	1.99
2015-16	3.3	5.03	1.73
2016-17	3.3	5.37	2.07
2017-18	3.3	5.30	2.00
2019-20	3.3	4.73	1.43
2019-20	3.3	4.65	1.35
2020-21	3.3	4.28	0.98
2021-22	3.3	3.29	0.00
2022-23	3.3	3.29	0.00
2023-24	5.3	3.69	0.00
2024-25	5.3	3.50	0.00

# 2. Ramagundam Opencast-II Coal Mine Extension Project:

Year	EC sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity (MTPA)
1993-94	2.0	0.3	0.00
1994-95	2.0	0.62	0.00
1995-96	2.0	1.76	0.00
1996-97	2.0	1.98	0.00
1997-98	2.0	1.97	0.00
1998-99	2.0	1.54	0.00
1999-00	2.0	1.98	0.00
2000-01	2.0	1.21	0.00
2001-02	2.0	1.41	0.00
2002-03	2.0	1.5	0.00
2003-04	2.0	1.9	0.00
2004-05	2.0	1.94	0.00
2005-06	2.0	1.97	0.00
2006-07	2.0	1.930	0.00

Year	EC sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity (MTPA)
2007-08	2.0	1.920	0.00
2008-09	2.0	1.950	0.00
2009-10	2.0	1.960	0.00
2010-11	4.5	3.250	0.00
2011-12	4.5	2.140	0.00
2012-13	4.5	1.006	0.00
2013-14	4.5	0.730	0.00
2014-15	4.5	0.700	0.00
2015-16	4.5	1.500	0.00
2016-17	4.5	1.850	0.00
2017-18	4.5	1.930	0.00
2019-20	4.5	2.160	0.00
2019-20	4.5	2.360	0.00
2020-21	4.5	2.520	0.00
2021-22	4.5	3.230	0.00
2022-23	4.5	2.400	0.00
2023-24	4.5	2.220	0.00
2024-25	4.5	3.000	0.00

### 3. Adriyala Shaft Underground Coal Mining Expansion Project

Year	EC sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity (MTPA)
2010-11	2.144	1.30	0.00
2011-12	2.144	1.59	0.00
2012-13	2.144	1.89	0.00
2013-14	2.144	1.55	0.00
2014-15	3.14	0.70	0.00
2015-16	3.14	1.85	0.00
2016-17	3.14	1.20	0.00
2017-18	3.14	0.39	0.00
2019-20	3.14	1.73	0.00
2019-20	3.14	2.06	0.00
2020-21	3.14	1.05	0.00
2021-22	3.14	1.14	0.00
2022-23	3.14	1.70	0.00
2023-24	3.14	1.40	0.00
2024-25	3.14	0.40	0.00

### 4. Vakulpalli Mine (formerly GDK-9 Incline)

Year	EC sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity (MTPA)
1993-94	0.45	0.55	0.10
1994-95	0.45	0.52	0.78
1995-96	0.45	0.41	0.00
1996-97	0.45	0.75	0.30
1997-98	0.45	0.56	0.11
1998-99	0.45	0.34	0.00
1999-00	0.45	0.29	0.00
2000-01	0.45	0.20	0.00
2001-02	0.45	0.19	0.00

Year	EC sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity (MTPA)
2002-03	0.45	0.16	0.00
2003-04	0.45	0.39	0.00
2004-05	0.45	0.34	0.00
2005-06	0.45	0.455	0.05
2006-07	0.45	0.29	0.00
2007-08	0.45	0.41	0.00
2008-09	0.45	0.54	0.95
2009-10	0.45	0.58	1.38
2010-11	0.45	0.31	0.00
2011-12	0.45	0.43	0.00
2012-13	0.45	0.505	0.55
2013-14	0.45	0.43	0.00
2014-15	0.45	0.35	0.00
2015-16	0.45	0.35	0.00
2016-17	0.45	0.31	0.00
2017-18	0.45	0.21	0.00
2019-20	0.45	0.19	0.00
2019-20	0.45	0.14	0.00
2020-21	0.45	0.12	0.00
2021-22	0.45	0.20	0.00
2022-23	0.45	0.35	0.00
2023-24	0.45	0.35	0.00
2024-25	0.35	0.33	0.00

#### 5. Godavari Khani No.10 Incline (Mining operation stopped)

Year	EC sanctioned capacity(MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity (MTPA)
1993-94	0.45	0.45	0.00
1994-95	0.45	0.45	0.00
1995-96	0.45	0.45	0.00
1996-97	0.45	0.45	0.00
1997-98	0.45	0.45	0.00
1998-99	0.45	0.35	0.00
1999-00	0.45	0.41	0.00
2000-01	0.45	0.37	0.00
2001-02	0.45	0.38	0.00
2002-03	0.45	0.40	0.00
2003-04	0.45	0.40	0.00
2004-05	0.45	0.40	0.00
2005-06	0.45	0.40	0.00
2006-07	0.45	0.35	0.00
2007-08	0.45	0.38	0.00
2008-09	0.45	0.54	0.00
2009-10	0.45	0.48	0.00
2010-11	0.45	0.39	0.00
2011-12	0.45	0.41	0.00
2012-13	0.45	0.38	0.00
2013-14	0.45	0.34	0.00
2014-15	0.45	0.22	0.00
2015-16	0.45	0.29	0.00



However, the project is located within 6.07 KM of Siwaram (Crocodile) Wild Life Sanctuary. NOC obtained from the National Board for Wildlife (NBWL), vide F. No. 6-66/2021 WL, dt. 07.02.2022. As directed, an amount of Rs.821.76 lakhs was deposited with “Forest Bio-Diversity Conservation Society of Telangana” for taking up wildlife mitigation measures. Further, there is no violation of WLP Act, 1972.

A Wild Life Conservation Plan for 28 schedule-I species (namely: *Indian Pangolin, Indian Wolf, Four-horned Antelope, Sambar, Indian Crested Porcupine, Indian Fox, Indian Giant Squirrel, Indian Grey Mongoose, Jungle Cat, Small Indian Civet, Indian Flapshell Turtle, Indian Star Tortoise, Bengal monitor, Indian Python, Red sand boa, Checkered Keelback, Indian Chameleon, Indian Cobra, Indian Rat Snake, Russell’s Viper, Black Kite, Black-winged Kite, Grey Jungle Fowl, Indian Peafowl, Shikra, Short-toed Snake Eagle, Small Minivet and White-eyed Buzzard*) was prepared and approved by the Principal Chief Conservator of Forests and Chief Wildlife Warden for an amount of Rs.335.68 lakhs, vide Re.No.3505/2020/WL-1, dt. 08.04.2021.

**Mining Lease:** Total mine lease area is 4326.08 Ha, out of which 3915.57 Ha covered in 3 Mining leases and balance 410.51 ha is NCBA for which LOI has already been obtained. Details of the same are as follows:

S. No.	Project Area (in ha)	Mining Lease Details
1.	131.87	1 <sup>st</sup> Renewal of Additional South Godavari Mining Lease (1554 ha), vide G.O.Ms. No. 201, I & C (M.II) Dept, dated: 31.07.2008 & Proceeding No. 4531/M/20003, dated 12.11.2018 and valid up to 16.09.2025.
2.	1687.46	3 <sup>rd</sup> Renewal of South Godavari Mining Lease (6848 ha), vide G.O.Ms. No. 2 Energy (PR-I) Dept, dated 12.01.2015 & Proceeding No. 2463/ML/2012, dated 26.03.2015 and valid up to 31.12.2034
3.	2096.24	Pandulapalli Mining Lease (3657.69 ha), vide G.O.Ms. No. 02, Energy (POWER.II) Dept, dated 26.05.2022 & Proceeding No. 3077/ML/2022, dated 27.10.2022 and valid up to 18.12.2041
4.	410.51	The intent granted by State Govt. for RG OC-I (89.83 ha), vide Lr. No 1037/PR(A1)/2018, dated 18.09.2018 and RG OC-II (320.68 ha), 1212/PR(A1)/2018, dated 15.11.2018.
<b>Total</b>	<b>4326.08</b>	

**Land details for the instant project are as follows:**

Nature of land involved	Area existing (Ha)	Additional proposed (Ha)	Total area required (Ha)
<b>Non – forest land</b>	2868.98	753.87	3622.85
<b>Forest land</b>	397.9	305.33	703.23
<b>Total</b>	<b>3266.88</b>	<b>1059.2</b>	<b>4326.08</b>

**Other Sensitive Receptors:**

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
i. Habitation	Village Name	Distance (km)	Direction
	Julapally	1.10	NW
	Mulkalapally	0.9	NW

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	Kamanpur	2.5	NW
	Gundaram	4.5	NW
	Rompikunta	5.5	NW
	8-Incline Colony (SCCL)	0.4	NW
	Penchikalapeta & Pothana Colony (SCCL)	2.2	NW
	Allur	1.3	NW
	Elkalapally	5.5	NW
	Verrlapilly	3.5	NW
	Pannur	0.2	W
	Centenary Colony (SCCL)	0.5	W
	Kalvacharla	2.0	W
	Rajapur	4.0	W
	Ratnapur	0.5	W
	Nagepally	0.2	W
	Adivarmpeta	0.3	SW
	Begumpeta	2.5	SW
	Jallaram	3.0	N
	Chillapally	1.2	N
	Gunjapadugu	1.0	N
	Singireddy pally	3.2	N
	Nagaram	0.9	NE
	Bestapalle	3.2	NE
	Pandulapalle	0.7	E
	Kachirajpally	4.5	SE
	Puttapaka	0.9	SE
ii. School	<b>Particulars</b>	<b>Distance (km)</b>	<b>Direction</b>
	MPPS, Julapally	1.30	NW
	ZPHS, Julapally	1.40	NW
	MPPS, Mulkalpally	1.2	NW
	ZPHS, Kamanpur	2.8	NW
	MPUPS, kamanpur	3.5	NW
	MPPS, kamanpur	4.0	NW
	MPUP, Gundaram	5.0	NW
	Singareni High School, 8-Inc. colony	1.5	NW
	Singareni Primary School, 8-Inc. Colony	1.5	NW
	Sri Vani Vidyanikethan, 8-Inc. Colony	1.1	NW
	MPUPS, Penchikalapeta	2.2	NW
	MPUPs, Allur	1.5	NW
	MPPS, Veerlapally	3.5	NW
	MPPS, Pannur	0.5	W
	MPPS, Centenary Colony	1.5	W
	Krishnaveni talent Pvt. School, Centenary Colony	1.5	W
	ZPHS, Kalvacherla	2.0	W
	MPPS, Kalvacherla	2.5	W
	Rainbow Primary Pvt. School, Kalvacherla	2.5	W
	MPPS, Rajapur	4.0	W
	MPPS, Ratnapur	0.8	W
	MPUPS, Ratnapur	0.5	W
	ZPHS, Nagepally	0.5	W
	MPPS, Nagepally	0.5	W
	MPUPS, Adivarmpeta	0.5	SW
	MPPS, Begumpeta	2.8	SW

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	ZPHS, Begumpeta	3.0	SW
	ZPHS, Gunjapadugu	1.0	N
	MPPS (Scheduled Caste), Gunjapadugu	1.0	N
	MPPS, Gunjapadugu	1.2	N
	MPPS, Singireddypally	3.5	N
	MPPS (Scheduled Caste), Mustyala	5.5	N
	MPPS-Bestapalle	3.2	NE
	MPPS, Puttapaka	1	SE
	<b>MPPS- Mandal Parishat Primary School, MPUPS - Mandal Parishat Upper Primary School, ZPHS- Zilla Parishat High School.</b>		
iii. River/ Waterbody	<b>River/ Nallah</b>	<b>Distance (km)</b>	<b>Direction</b>
	Bokkala Vagu	Within ML area	
	Sri ram Sagar Project canals (L6, L7, L8)	Within ML area	
	Jallaram vagu	0.5	N
	River Godavari (HFL Data is 138.10 m as on 10.10.1995)	5.0	E
	Shila Samudram tank	4.5	E
	Pandulapally tank	1.0	E
	Kamanpur Tank	2.2	NW
	Gundaram Reservior	4.2	NW
	Begumpeta Cheruvu	2.2	SW
iv. Forest	<b>Particulars</b>	<b>Distance (km)</b>	<b>Direction</b>
	Adriyala RF	Within ML area	
	Upplakesharam RF	Within ML area	
	Begampet Rf	0.4	S
	Khammampalli RF	1	SW
	Ramgir RF	4.2	SW
v. Archaeological Survey of India (ASI) protected site	No		
vi. Any other	No		

**Following diversions are proposed for the said project:**

- **Bokkala vagu:**

A seasonal nallah, Bokkala vagu flowing across the mine is proposed to be diverted for a length of 2.3 km. Permission has been obtained from I&CADD, Telangana State for the proposed diversion, vide Ir. No. CE/CDO/SE-1/EE-2/DEE-II/Bokkalavagu/26/2022, dt. 08.03.2022.

- **SRSP canals:**

The existing Sri Ram Sagar Project (SRSP) L6 canal will be merged in to L8 canal and will be allowed to continue to flow in it (For this purpose, L8 canal will be widened for a length of 3.60 km).

Subsequently, the merged L6 canal will be diverted for a length of 2.0 km and will be reconnected to its original course on the downstream side. All these diversions and widening will be done after obtaining necessary permissions from I&CADD, Telangana

**Mitigation measures proposed:**

All the mitigation measures will be taken up as per the recommendations of the I&CADD, Telangana State and the detailed mitigation measures will be incorporated in EIA/EMP report.

**27.9.4: Mining Plan and Mine Closure Plan:** Mining Plan (Including Mine Closure Plan) of Ramagundam Coal Mine (RG Coal Mine) [Conversion of UG Mines to OC (closed GDK 10 & working Vakilpalli sequentially) and Amalgamation of RG OC I Expansion Project, RG OC II Extension Project & Adriyala Longwall Project] has been approved by the Ministry of Coal vide Lr. No 55026/1/ 2020-CPAM, dated: 18th August 2020.

1. It is an opencast cum underground mine. Excavation of coal is proposed Shovel dumper& Dragline / in-pit crushing and conveying technology and highly mechanized LW equipment; Development of trunk / gate roadways by Bolter Miners / Road headers; B&P by CM / LHDs / SDLs at odd patches.
2. Total geological reserve reported in the mine lease area is 1023.45 MT with 633.45 MT mineable reserves. Out of total mineable reserve of 633.45 MT, 524.57 (OC-344.09; UG-180.48) are extractable. Reserves already extracted are 209.59 MT (OC-161.81; UG-47.78). Balance extractable reserves are 314.98 MT.
3. Total 11 nos of seams are workable, with thickness ranging between, 0.08 – 18.3 m. Grade of coal is G-10 and stripping ratio is 1:8.27.
4. Life of mine: 41 years (OC-24; UG-41).
5. The project has four external OB dumps in an area of 1352.13 ha with 120 m height and 862.60 Mm<sup>3</sup> of OB. Two internal OB in an area of 874.54 ha with 120 m height and 1986.66 Mm<sup>3</sup> of OB is envisaged in the project.
6. Details of Land usage

a. Pre-mining

S. No.	Land Use	Within ML Area (ha)	LOI Area (ha)	Total
1.	Agricultural Land	2955.678	384.202	3339.88
2.	Forest land	703.23	0	703.23
3.	Waste land	0	0	0
4.	Grazing land	15.23	0	15.23
5.	Surface Water Bodies	37.275	1.875	39.15
6.	Settlements	0	0	0
7.	Other (Township/Barren/Abadi)	204.157	24.433	228.59
<b>Total</b>		<b>3915.57</b>	<b>410.51</b>	<b>4326.08</b>

b. Post mining

S. No.	Type	Total Area (Ha)	Reclaimed Area (Ha)	Un-reclaimed area (Ha)
1.	Excavation/Quarry Area	1932.76	-	-
	(a) Backfilled areas	-	826.77	48.27
	(b) Excavated Void	-	0	1058.22
2.	External Dump	1352.13	1352.13	0
3.	Green belt	749.04	749.04	0
4.	safety zone	61.77	0	61.77
5.	Road and infrastructure	170.41	129.9	40.51
6.	Diversion/ below River/Nala/canal/garland Drains	55.48	0	55.48
7.	Embankment	4.49	4.49	0

S. No.	Type	Total Area (Ha)	Reclaimed Area (Ha)	Un-reclaimed area (Ha)
	Total	4326.08	3061.83*	1264.25

\* Reclaimed Area includes Grazing Land – 270.54 ha & Agricultural Land - 335.04 ha

7. Details of transportation of Coal:

- In pit to surface: Through series of belt conveyors
- Surface to siding: Coal will be transported through series of belt conveyors to silo loading and from there through Rail mode to customers.
- Siding to loading: Rail
- Quantity being transported by Road/Rail/conveyer/ropeway: Total quantity of 13.30 MT is being transported by Rail mode. The capacity of the existing transport system is sufficient for dispatching the enhanced peak production capacity of 21 MTPA.

- Reclamation: Afforestation shall be progressively done covering an area of 3061.83 ha at the end of mining. This will include, reclaimed external OB dump in 1352.13 Ha, internal dump of 826.27 Ha and greenbelt in 749.04 Ha and others (such as excavation area along ML boundary, along roads and infrastructure, embankment area and in township located outside the lease etc) in 134.39 ha. Density of plantation shall be 2500 plants per Ha. 335.04 Ha of agricultural land will be reclaimed back to the same.

Following three nos of voids are proposed:

- Void of RG OC – I within an area of 533.94 Ha with maximum depth of 350 m.
- Void of RG OC-II within an area of 524.28 Ha with the maximum depth of 330 m
- Void of Adriyala UG Mine with the maximum depth of 850 m.

**27.9.5: Baseline Data:**

Period	October to December, 2024
AAQ parameters at 15 Locations (5 in core zone and 10 in buffer zone)	<b>Core Zone</b> PM <sub>10</sub> = 141 to 184.3 µg/m <sup>3</sup> PM <sub>2.5</sub> = 42.3 to 61.2 µg/m <sup>3</sup> SO <sub>2</sub> = 11.7 to 13.3 µg/m <sup>3</sup> NO <sub>x</sub> = 11.8 to 17.6 µg/m <sup>3</sup> CO = BDL  <b>Buffer Zone</b> PM <sub>10</sub> = 58 to 77 µg/m <sup>3</sup> PM <sub>2.5</sub> = 34.4 to 44.2 µg/m <sup>3</sup> SO <sub>2</sub> = 10.5 to 11.7 µg/m <sup>3</sup> NO <sub>x</sub> = 9.6 to 14.1 µg/m <sup>3</sup> CO = BDL
Incremental GLC Level	The present proposal is for seeking ToR and incremental GLC Levels will be incorporated in EIA/EMP report.
Ground water quality at 6 locations	pH: 7.3 to 7.7, Total Hardness: 345 to 474 mg/l, Chlorides: 68 to 182 mg/l, Fluoride: 0.52 to 0.85 mg/l. Heavy metals: The concentrations of heavy metals Cadmium (Cd), Manganese (as Mn), Copper (Cu), Lead (Pb), Zinc (as Zn), Selenium (as Se), Arsenic (as As), Chromium (Cr), Nickel (Ni) and Aluminum (as Al) were either below the detection limits or within the permissible limits at all locations.
Surface water quality at 11 locations	pH: 7.3 to 8.4 DO: 5.4 to 6.6 mg/l and BOD: 2.6 to 2.9 mg/l. COD from 19.3 to 29 mg/l. The surface water quality conforms to Class-B as per CPCB water quality criteria.

Noise levels Leq (Day and Night)	Industrial Area: 43.6 dB(A) to 58.1 dB(A) for the day time and 32.4 dB(A) to 44.8 dB(A) for the Night time.  Residential Area: 40.4 dB(A) to 49.4 dB(A) for the day time and 30.1 dB(A) to 37.7 dB(A) for the Night time.
Traffic assessment study findings	Will be incorporated in EIA/EMP
Flora and fauna	Endangered Flora: <i>Pterocarpus santalinus</i> (planted) and <i>Tectona grandis</i> .  Endangered Fauna: 21 Schedule – I Species (namely: <i>Indian Pangolin</i> , <i>Indian Wolf</i> , <i>Four-horned Antelope</i> , <i>Sambar</i> , <i>Indian Crested Porcupine</i> , <i>Indian Fox</i> , <i>Indian Giant Squirrel</i> , <i>Indian Grey Mongoose</i> , <i>Jungle Cat</i> , <i>Small Indian Civet</i> , <i>Indian Flapshell Turtle</i> , <i>Indian Star Tortoise</i> , <i>Bengal monitor</i> , <i>Indian Python</i> , <i>Red sand boa</i> , <i>Checkered Keelback</i> , <i>Indian Chameleon</i> , <i>Indian Cobra</i> , <i>Indian Rat Snake</i> , <i>Russell's Viper</i> , <i>Black Kite</i> , <i>Black-winged Kite</i> , <i>Grey Jungle Fowl</i> , <i>Indian Peafowl</i> , <i>Shikra</i> , <i>Short-toed Snake Eagle</i> , <i>Small Minivet</i> and <i>White-eyed Buzzard</i> )  A Wild Life Conservation Plan for schedule-I species was prepared and approved by the Principal Chief Conservator of Forests and Chief Wildlife Warden for an amount of Rs.335.68 lakhs, vide letter No. Re.No.3505/2020/WL-1, dt. 08.04.2021.
Water Requirement	<ul style="list-style-type: none"> <li>• Source of Water: Mine seepage water</li> <li>• Ground Water Intersection: Ground water level is intersecting at a depth of 20 m</li> <li>• Water Requirement: 10,200 KLD</li> <li>• NOC (For surface water): Not applicable</li> <li>• NOC (Ground Water): Available for all operating mines. However, an application has been submitted for the proposed RG Coal Mine</li> </ul>

**27.9.6: Details of Water Requirement:** The water requirement for the said project is 10,200 KLD and the source of water shall be mine seepage water. Following are the details of the permissions obtained for groundwater are as follows:

S. No.	Project Name	Ltr. No. & Date.
1	RG OC-I Exp. Project, Phase-II	Lr.No.08/TGGWD/WALTA/NOC/PDPL/ Mine/ RG-OC-I Expansion Phase-II, dt: 08.05.2025
2	RG OC-II Extension Project	Lr.No.04/TGGWD/WALTA/NOC/PDPL/Mine/ RG-OC-II, dt: 10.01.2025.
3	Adriyala Shaft Project	Lr.No.05/TGGWD/WALTA/NOC/PDPL/ Mine/ Adriyala Shaft UG Coal, dt: 07.04.2025.
4	Vakilpalli Mine:	Lr.No.06/TGGWD/WALTA/NOC/PDPL/ Mine/ Vakilpalli-U/G, dt: 07.04.2025.
5	GDK 10 Incline	Lr.No. 1081/T/2007, dated 10.09.2007

Further, PP submitted that, 2.3 km length of Bokkalavagu will be diverted and the diversion length is 1.5 km. SRSP canal of 3.5 km will also be diverted.

**27.9.7: Details of Power Requirement and diversion of High-Tension/Transmission Line:** The power requirement for the said project is 35.03 MVA. The source of power supply is from SCCL 132/33 kV sub-station, RG III Area. Further, no HT Line/Transmission Line is proposed for diversion.

**27.9.8: Details of Solid and Hazardous Waste Generation:**

S. No.	Type of Waste	Source	Quantity	Mode of Treatment	Disposal	Remarks
1	Overburden	Quarrying	32000000 TPA	Haul Road	External &	All environmental

S. No.	Type of Waste	Source	Quantity	Mode of Treatment	Disposal	Remarks
	(Solid waste)				Internal Dumping with reclamation activity	protection measures will be addressed in EIA/EMP report.
2	Lead acid batteries	HEMM	1 TPA	Road	Disposed to authorized recyclers	Disposed as per the provisions of Hazardous & Other Wastes (Management & Trans boundary Movement) Rules, 2016.
3	Used Oil	HEMM and other machinery	180 KL/Annum	Road	Disposed to authorised recyclers	Disposed as per the provisions of Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016.
4	ETP sludge	Washing of HEMM	48 Litres/Annum	Road	Disposed to authorised recyclers	Disposed as per the provisions of Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016.
5	Plastic bottles, covers, damaged furniture	Pit offices	0.02	Road	Disposed to authorized recyclers	Disposed as per the provisions of Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016.
6	Damaged computer peripherals, LED lamps etc.,	Office, workshops etc.,	0.1	Road	Disposed to authorized recyclers	Disposed as per the provisions of E-waste (Management) Rules, 2022.

**27.9.9: Plantation:** Out of 4326.08 ha of project area, plantation will be done in a phased manner in area of 3061.83 ha over the dump yards, safety zone, greenbelt, excavation area along ML boundary, along roads and infrastructure and embankment area.

The details of stage wise plantation details are furnished hereunder:

Stage	Year	Plantation	
		Stage wise Plantation in ha	Cumulative Plantation in ha
	Initial	279.44	279.44
Y-1	2020-21	59.52	338.96

Stage	Year	Plantation	
		Stage wise Plantation in ha	Cumulative Plantation in ha
Y-3	2022-23	146.94	485.9
Y-5	2024-25	124.46	610.36
Y-10	2029-30	652.75	1263.11
Y-15	2034-35	596.95	1860.06
Y-17	2036-37	566.95	2427.01
Y-20	2039-40	167.39	2594.4
Y-25	2044-45	195.29	2789.69
Y-30	2049-50	115.36	2905.05
Y-35	2054-55	0	2905.05
Y-40	2059-60	0	2905.05
Y-41	2060-61	26.6	2931.65
Y-45	2064-65	130.18	3061.83
Y-46	2065-66	3061.83	

**27.9.10: Rehabilitation & Resettlement Plan:** Total 5 nos of villages are involved (namely: Ladnapur, Rachapalli, Rajapur, Akkepalli and Budhavarampet) in the said project. Out of these villages one village (Rachapalli) has been completely rehabilitated and 2 more villages (Akkapalli and Rachapalli) are partially rehabilitated. Villages Rajapur and Budhavarampet is further proposed to be shifted. There are 4816 nos of project displaced families involved, out of which 2116 PDFs has already been rehabilitated and remaining 2700 PDFs will be further rehabilitated.

**27.9.11: Project Cost:** Total capital cost of the said project is Rs. 2194.05 Crores.

**27.9.12: Legal Issues/ Violation:** There are no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Forest Conservation Act, Wildlife Protection Act, CRZ Notification, MMDR Act, Factories Act. Further, there is no court case on the project.

#### **Deliberations and Observation of the Committee:**

##### **27.9.13: The Committee noted the following:**

1. The instant proposal is for grant of Terms of Reference for Ramagundam Coal Mine (increase in ML area from 3266.88 Ha to 4326.08 Ha and increase in production capacity from 13.74 MTPA to 21 MTPA) by M/s Singareni Collieries Company Limited, located at: villages: Pannur, Nagepally, Ladnapur, Ratnapur, Bhudavarampet, Ramayyapalli, Vakalpalli, Jallipalli and Mulkalapalli; District: Peddapalli; State: Telangana.
2. Ramagundam Coal Mine Project is Conversion of UG Mines to OC (closed GDK 10 & working Vakalpalli sequentially) and Amalgamation of RG OC I Expansion Project, RG OC II Extension Project & Adriyala Longwall Project for enhancement of production capacity from 13.74 MTPA to 21 MTPA and increase in lease area from 3266.88 ha to 4326.08 ha.
3. Committee during the deliberation observed that, in the instant case of amalgamation of 5 mines, there are 2 mines namely - Ramagundam Opencast -I Coal Mine Expansion Project-Phase-II and Vakalpalli Mine (GDK-9 Incline Extension Project), which have accorded EC in violation category on 16.01.2023 and 25.06.2024, respectively.
4. Committee deliberated on the implementation status of the remediation plan of the mines for which EC in violation category has been obtained and observed that, the

remediation plan or the said mines is under implementation.

5. Committee opined that, PP shall first implement the remediation plan for the said violation cases, obtain the certified compliance report in that regard from Ministry's RO and get the violation aspect closed by seeking amendment from MoEF&CC. Thereafter the proposal shall be submitted for obtaining ToR for amalgamation of these 5 mines.
6. Further, Committee opined, that PP shall submit the certified compliance report of all the mines being considered in the instant proposal.
7. The committee advised the proponent to revisit the entire proposal in totality with respect to release of bank guarantee for the violation ECs accorded by the Ministry, modalities for reduction in depth as well as area of voids etc. Thereafter, appropriate changes in all the requisite documents such as common application form, pre-feasibility report and the presentation etc shall be carried out and the proposal shall be submitted for fresh consideration by the EAC.

**Recommendations of the Committee:**

**27.9.14:** In view of the foregoing and after detailed deliberation, the Committee *returned the proposal in its present form.*

**Agenda Item No. 27.10:**

27.10: Gadegaon Opencast Coal Mine (ML area: 615.56 Ha having production capacity of 3 MTPA) by M/s Western Coalfields Limited, located at **village: Gadegaon; Tehsil: Korpana; District: Chandrapur; State: Maharashtra – Prescribing of Terms of Reference – reg.**

**[Online Proposal No. IA/MH/CMIN/532813/2025; Consultant: CMPDIL - NABET/EIA/22-25/SA 0223 valid up to 07.07.2025]**

**27.10.1:** M/s. Western Coalfields Limited has made an application online vide proposal no. IA/MH/CMIN/532813/2025 dated 28/04/2025 along with the application in prescribed format (CAF & Form-I), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at Item No. 1(a) under Category “A” of the schedule of the EIA Notification, 2006 and being appraised at Central Level. The project does not attracts General Condition.

Gadegaon Opencast Coal Mine is proposed for 3 MTPA production capacity within the ML area of 615.56 Ha, is located at village: Gadegaon; Tehsil: Korpana; District: Chandrapur; State: Maharashtra.

**Details of the proposal, as ascertained from the proposal documents and as revealed from the discussion held during the meeting, are given as under:**

**27.10.2: Environmental Site Settings:** The project area is covered under Survey of India Topo sheet No. 56M/1 and is bounded by the geographical coordinates ranging from Latitudes 19°49'8" (N) and 19°51'2" (N) and Longitudes 79°06'22" (E) and 79°08'22" (E).

Project fall/does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment, 2018. Nearest CPA of Chandrapur (Ghughus) is located at a

distance of 5 km from the mine. A certificate w.r.t. distance of CPA has been obtained vide letter dated 27.05.2025 by Maharashtra Pollution Control Board.

**Forest Area:** The project does not involve any forestland.

**Protected Area:** The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc.

There are 8 Schedule – I species (namely: Jackal, Indian Porcupine, Indian Fox, Common Mongoose, Cobra, Rat Snake, Crowned River Turtle, Tortoise) present within the study area. Wildlife Conservation Plan is yet to be prepared and the same shall be prepared after the grant of ToR.

**Mining Lease:** PP submitted the following details of the ML area:

S. No.	Govt. Order/Notifications as the case may be	Area involved in the project (ha)
1.	Ministry of Coal Letter dated 15 <sup>th</sup> April, 2025 for publication in Gazette under Section 9(1) of CBA Act (S.O. 1719(E)) for Gadegaon OC Mine	615.56 ha
	<b>Total</b>	<b>615.56 ha</b>

#### Other Sensitive Receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
i. Habitation	<b>Village</b>	<b>Distance</b>	<b>Direction</b>
	Gadegaon Village	Within Core Zone	
	Sonurli Village	0.5	North West
	Karwahi Village	0.4	West
	Hirapur Village	1.4	South
	Sangoda Village	1.5	West
	Takli Village	1.7	North west
	Antargaon Village	2.1	South West
ii. School	<b>School</b>	<b>Distance</b>	<b>Direction</b>
	Zila Parishad Primary School, Gadegaon	Within Core Zone Proposed for R&R	
	ZPP School Hirapur	1.4	South
	ZP Upper Primary School, Antargaon	2.1	South West
	ZP Upper Primary School, Sangoda	1.5	West
	ZPP School Karwai	0.4	West
iii. River/ Waterbody	<b>River/ Nallah</b>	<b>Distance</b>	<b>Direction</b>
	Panch Nalla	Within core	To be diverted
	Penganga river (HFL data – 185 m)	0.8	North
	Wardha river (HFL data – 185 m)	5.8	North east
iv. Forest	<b>Reserved/ Protected Forest</b>	<b>Distance</b>	<b>Direction</b>
	Pardi Reserve forest	5	West
v. Archaeological Survey of India (ASI) protected site	Hemadpanti Temple containing images of Dattatraya, Mahadev & Laxminarayan is located 9.40 kms from the ML area of proposed Gadegaon OC		
vi. Any other	No		

**Following diversions are proposed for the said project:**

- 1) Road Diversion – A PWD road and village roads are passing through the proposed quarry area. Hence, roads are proposed to be diverted along the mine boundary. The existing length of the road is 5.2 kms and diverted length will be 10.5 kms.
- 2) Transmission Line – A 765kV HT line is passing through the ML area. Hence, it is proposed to be diverted beyond the ML Area. The existing length of transmission line is 8.0 km and diverted length will also be 8.00 kms.
- 3) Straightening of Nallah – Panch Nallah is flowing along the western boundary of the mine. In order to maintain the appropriate geometry of the quarry, Panch Nallah will be straighten along the mine boundary. This is necessary for conservation of coal. The existing length of the Nallah is 2.50 kms, after straightening the length of Nallah will be 2.25 kms.

**Mitigation measures proposed:**

- 1) Extraction of coal with Surface Miner is proposed. This will eliminate drilling and blasting in the coal seam.
- 2) Conveyor Belt System is proposed for transportation of coal from mine to nearby Railway Siding.
- 3) Fixed sprinklers and trolley mounted fog canons are proposed for dust suppression.
- 4) A 28 KL water sprinkler and road sweeping machine is proposed.
- 5) Green belt is proposed along the mine boundary.
- 6) Continuous Ambient Air Quality Monitoring System will be installed in the mine.
- 7) Provisions have been made for sedimentation tank, Effluent Treatment Plan and Sewage Treatment Plant.

**27.10.3: Mining Plan and Mine Closure Plan:** The Mine Plan and Mine Closure Plan for the said project has been approved by the Board of M/s WCL vide letter no. WCL/Office of CS/BM-370/2024-25/769 dated 06.12.2024 for the production capacity of 3 MTPA within the ML area of 615.56 Ha.

1. Method of Mining to be adopted shall be Opencast. Excavation of Coal is proposed through Surface Miner. The waste/OB handling is with shovel/dumper combination.
2. Total geological reserve reported in the mine lease area is 56.58 MT with 53.75 MT mineable reserve. Out of total mineable reserve of 53.75 MT, 53.75 MT are available for extraction. Percent of extraction is 100 %.
3. There are 2 nos of workable coal seams, with thickness ranging between 10.60 m to 25.20 m.
4. Grade of coal is G-10 and stripping ratio 6.54.
5. Life of mine is 21 years as on 01.04.2025
6. There is no external dump proposed within the mine lease area of Gadegaon OC. The existing external dump of nearby Penganga OC will be utilized for dumping. The external dump of Penganga OC is having an area of 195.00 ha with 90m height and 80.32 Mm<sup>3</sup> of OB (from Gadegaon OC). Further, 146.90 Mm<sup>3</sup> of OB will accommodate in the void of nearby Penganga OC having an area of 239.19 ha. The

internal dump of Gadegaon OC will be in an area of 72.0 ha (upto GL) with 119.64 Mm<sup>3</sup> of OB. The internal dump quantity in Gadegaon OC is 119.64 Mm<sup>3</sup> and external dump quantity is 231.72 Mm<sup>3</sup> within the Mine lease of Penganga OC (80.32 Mm<sup>3</sup> + 146.90 Mm<sup>3</sup>).

7. Details of Land usage:

a. Pre-mining

S. No.	Type of Land	Land (ha)
1	Tenancy land	574.71
2	Govt. land	40.85
3	Forest land	0.00
	<b>Total</b>	<b>615.56</b>

b. Post – mining land use details:

S. No.	Post Mining Land use	Land use (ha)				
		Plantation	Water Body	Public use	Undisturbed	Total
1	External OB Dump	0.00	0.00	0.00	0.00	0.00
2	Excavation	72.0	328.0	0.00	0.00	400.00
3	Embankment	0.00	0.00	30.00	34.00	64.00
4	Roads & Infrastructure	5.00	0.00	20.00	5.00	30.00
5	Nallah Diversion	0.00	5.00	0.00	0.00	5.00
6	Undisturbed Area	74.00	0.00	0.00	42.56	116.56
	<b>Total</b>	<b>151.00</b>	<b>333.0</b>	<b>50.00</b>	<b>81.56</b>	<b>615.56</b>

8. Details of transportation of Coal: The coal is proposed to transport in the following manner till commissioning of conveyor belt system:

- In pit to surface : Through dumpers
- Surface to siding: From quarry to Truck Loading Stations by Dumpers and from Truck Loading System to Conveyor Belt (Conveyor Belt with Silo Loading System is proposed to be commissioned by March 2029)
- Siding to loading: Silo Loading

9. Reclamation: Afforestation shall be done progressively covering an area of: 151 ha at the end of mining. This will include internal OB dump of 72 Ha and greenbelt of 74 Ha. Density of plantation shall be 2500 nos of tress per Ha. A void of 328 Ha with the depth of 220 m is proposed to be converted into water body. Others (including avenue plantation along road) of 5 Ha shall also be reclaimed.

**27.10.4: Baseline Data:**

Period	1 <sup>st</sup> January, 2024 to 31 <sup>st</sup> March, 2024
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Period	1 <sup>st</sup> January, 2024 to 31 <sup>st</sup> March, 2024
AAQ parameters at 12 Locations (min and max)	<p>Core Zone (All values found within permissible limit as per Coal Mine Standard, GSR 742(E), 2000  <math>PM_{2.5}</math> = 23 to 46 <math>\mu g/m^3</math>  <math>PM_{10}</math> = 71 to 97 <math>\mu g/m^3</math>  <math>SO_2</math> = 10 to 11 <math>\mu g/m^3</math>  <math>NO_x</math> = 10 to 19 <math>\mu g/m^3</math></p> <p>Buffer Zone (All values found within permissible limit as per NAAQS, 2009)  <math>PM_{2.5}</math> = 15 to 44 <math>\mu g/m^3</math>  <math>PM_{10}</math> = 48 to 85 <math>\mu g/m^3</math>  <math>SO_2</math> = 10 to 13 <math>\mu g/m^3</math>  <math>NO_x</math> = 7 to 19 <math>\mu g/m^3</math></p>
Ground water quality at 6 Locations	<p>pH: 7.65 to 8.81,  TDS: 620 to 1180 mg/l,  Chlorides: 24 to 166 mg/l,  Fluoride: 0.32 to 0.81 mg/l.  Total Hardness as <math>CaCO_3</math>: 84 to 480 mg/l,  Manganese: 0.02 to 0.05 mg/l  Zinc: 0.02 to 0.03 mg/l  Copper: 0.03 to 0.046 mg/l</p>
Surface water quality at 5 Locations	<p>pH: 7.9 to 8.85;  DO: 3.2 to 4.6 mg/l  BOD: from 3.0 mg/l to 5.6 mg/l  COD from 32 mg/l to 60 mg/l</p>
Noise levels Leq (Day and Night)	<p><b>Industrial</b>  50.2 to 53.7 dB(A) for the day time and 40.2 to 41.4 dB(A) for the Night time.</p> <p><b>Buffer Zone</b>  43.2 to 46.3 dB(A) for the day time and 40.2 to 42.6 dB(A) for the Night time.</p>
Flora and fauna	Baseline data has been generated. 8 nos of schedule-I species were reported within the study area. Wildlife conservation plan will be prepared.
Water Requirement	<p>Source of Water: Ground Water and Mine Discharge Water (730KLD)  Ground Water Intersection: Yes  In core zone the ground water level has been reported to be varying between 5.10 m to 6.70 m during pre-monsoon and between 3.0 m to 3.80 m during post-monsoon.  In buffer zone the ground water level has been reported to be varying between 4.20 m to 11.00 m during pre-monsoon and between 2.30m to 5.70 m during post-monsoon.</p> <p>Water Requirement:730 KLD</p> <p>NOC (Ground Water): CGWA has granted NOC for abstraction of ground water for Gadegaon OC mine vide letter no. CGWA/NOC/MIN/ORIG/2024/21087 dated 16.12.2024 and valid up to 27.09.2026.</p>

**27.10.5: Details of Water Requirement:** The water requirement for the said project is 730 KLD and the source of water shall be ground water and mine seepage water. NoC for groundwater has been obtained from CGWA for the said mine, vide letter no. CGWA/NOC/MIN/ORIG/2024/21087 dated 16.12.2024 and valid up to 27.09.2026. A seasonal Panch Nallah flowing in western part of the mine will be diverted along the mine boundary. The existing length of Nallah is 2.50 km and diverted length of Nallah will be 2.25 km.

**27.10.6: Details of Power Requirement and diversion of High-Tension/Transmission Line:** Power requirement for the said project is 6.092 MW. Further, PP submitted that, 765 kV D/C Transmission line is proposed to be diverted. The existing length of transmission line is 8 kms and diverted length is also approx. 8 km.

**27.10.7: Details of Solid and Hazardous Waste Generation:**

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1	ETP Sludge	ETP	20	Through SPCB authorized CHWTSDF	Through SPCB authorized CHWTSDF
2	Used Oil	HEMM	36.5	Through Authorized recycler	Recycle
3	Oil contaminated waste	HEMM	8	Through SPCB authorized CHWTSDF	Through SPCB authorized CHWTSDF
4	Overburden	Quarry	351.36 Million m <sup>3</sup>	OB Dump	OB Dump

**27.10.8: Plantation:** Project Proponent has proposed plantation in total 151.0 ha of mine lease area with 3,77,500 nos of saplings till mine closure.

**27.10.9: Rehabilitation & Resettlement Plan:** In the instant project, Gadegaon village located within the ML area is proposed to be rehabilitated. The project involves 480 project affected families. R&R of the PAFs will be done as per R&R policy of Coal India Limited and State Government of Maharashtra.

**27.10.10: Project Cost:** Capital Cost of the said project is Rs. 49741 Lakhs.

**27.10.11: Legal Issues/ Violation:** PP reported that there is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

**27.10.12: Written Submissions:** PP submitted the following information through an Undertaking during the meeting:

1. The overburden dumping has been proposed in Gadegaon OC mine in accordance with the Ministry of Coal, OM (CPAM-34011/28/2019-CPAM(E-343762) dtd. 31/01/2025. The OB of Gadegaon OC will be dumped in the ML area of adjacent Penganga OC (both mines belonging to WCL). This will eliminate requirement of additional fresh land for overburden dumping.
2. Mining Plan of Penganga OC will be revised considering the dumping from Gadegaon OC Mine. The revised Mining Plan will be approved by WCL Board before submission of EC application of Gadegaon OC Mine.
3. Topsoil will be preserved separately, and it will be spread over the overburden dump for biological reclamation.

4. The Panch Nalla has been proposed to be diverted. However, it should be considered as straightening along the mine boundary. This is necessary in view of conservation of coal and to properly maintain the mine geometry in the western side of project.
5. As discussed during the EAC meeting, the quantity of 146.90 Mm<sup>3</sup> overburden (to be dumped in the void of Penganga OC) considered as the internal dump will be considered as external dump in respect to Gadegaon OC. Accordingly, the changes has been made in the dumping. Thus, the internal dump quantity should be considered as 119.64 Mm<sup>3</sup> and external dump quantity as 231.72 Mm<sup>3</sup> (including 80.32 Mm<sup>3</sup> of OB earlier proposed as external dump).
6. In this project, Gadegaon village located within the ML area is proposed to be rehabilitated. The project involves 480 projects displaced households and 1700 project affected families. R&R of the PAPs will be done as per R&R policy of Coal India Limited and State Government of Maharashtra.

**Deliberations and Observation of the Committee:**

**27.10.13: The Committee noted the following:**

27. The instant proposal is for grant of terms of reference for Gadegaon Opencast Coal Mine (ML area: 615.56 Ha having production capacity of 3 MTPA) of M/s Western Coalfields Limited, located at village: Gadegaon; Tehsil: Korpana; District: Chandrapur; State: Maharashtra. The instant project is a greenfield project.
28. The EAC took into consideration the project site through kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH.
29. Project fall/does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment, 2018. Nearest CPA of Chandrapur (Ghughus) is located at a distance of 5kms from the mine. A certificate w.r.t. distance of CPA has been obtained vide letter dated 27.05.2025 by Maharashtra Pollution Control Board.
30. The project does not involve any forestland.
31. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. There is presence of Schedule – I species and Wildlife Conservation Plan is yet to be prepared.
32. The Mine Plan and Mine Closure Plan for the said project has been approved by the Board of M/s WCL vide letter no. WCL/Office of CS/BM-370/2024-25/769 dated 06.12.2024 for the production capacity of 3 MTPA within the ML area of 615.56 Ha.
33. Method of Mining to be adopted shall be Opencast. Excavation of Coal is proposed through Surface Miner. The waste/OB handling is with shovel/ dumper combination.
34. Total geological reserve reported in the mine lease area is 56.58 MT with 53.75 MT mineable reserve. Out of total mineable reserve of 53.75 MT, 53.75 MT are available for extraction. Percent of extraction is 100 %.
35. Grade of coal is G-10 and stripping ratio 6.54. Life of mine is 21 years as on 01.04.2025

36. There is no external dump proposed for the said mine. However, an internal dump within an area of 72 Ha is proposed for the said mine. Committee observed that, OB from the said Gadegaon mine is proposed to be dumped into the external dump of the adjacent Penganga mine of M/s WCL itself.

Committee deliberated on the same and observed that, as per the para 4.3 of the guideline issued by the Ministry of Coal vide OM dated 31.01.2025, for optimum utilization of land resources, minimize transportation of OB or maximize extraction of coal by using the available land or void of nearby mines through handling/rehandling of OB is allowed. An agreement or Memorandum of Understanding (MoU) shall be signed between the mine owners in case of different owners along with the standard operating procedure to be followed by the respective mine owners. The Mining Plan(s) of both mines must be revised to incorporate and reflect this change. The consent of the respective State Government for this purpose shall be attached in the Mining Plan(s). In the case of allocated or auctioned coal blocks, prior consent of the Nominated Authority is required.

On the basis of above, the Committee opined that the PP shall modify the mine plan of the adjacent Penganga mine for dumping of Gadegaon OB. Also, the PP shall obtain amendment in the Environment Clearance of Penganga OC for allowing the dumping of OB from the Gadegaon Mine of M/s WCL.

37. Committee deliberated on the method of coal evacuation proposed for the said mines and observed that, the coal from in-pit to surface is proposed to be transported through dumpers, from surface to railway siding through conveyor belt and by railway to the final consumers. The conveyor belt along with the Silo loading System is proposed to be completed by March 2029. Till the time conveyor is commissioned, the coal from mine to railway siding will be transported through tarpaulin covered trucks.
38. Committee during the deliberation observed that, mine void of 328 Ha with the 220 m depth is proposed to be converted into water body. Committee opined that, the depth and area of the mine void shall be reduced and accordingly the mine plan shall be modified.
39. Committee deliberated on the baseline data submitted by the PP and observed that, particulate matter 10 is on the higher side on the prescribed limits. Committee opined that PP shall take adequate measure to mitigate the pollution as the said mine is situated near the critically polluted area.
40. The water requirement for the said project is 730 KLD and the source of water shall be ground water and mine seepage water. NoC for groundwater has been obtained from CGWA for the said mine, vide letter no. CGWA/NOC/MIN/ORIG/2024/21087 dated 16.12.2024 and valid up to 27.09.2026.
41. Committee observed that a seasonal Panch Nallah flowing in western part of the mine will be diverted along the mine boundary. The existing length of Nallah is 2.50 km and diverted length of Nallah will be 2.25 km. Committee opined that PP shall explore the possibilities to avoid the diversion of the said nallah.
42. Committee also observed that, a PWD road and village roads are passing through the proposed quarry area. Hence, roads are proposed to be diverted along the mine

boundary. The existing length of the road is 5.2 kms and diverted length all along the mine periphery will be 10.5 kms.

43. Power requirement for the said project is 6.092 MW. Further, PP submitted that, 765 kV D/C Transmission line is proposed to be diverted. The existing length of transmission line is 8 kms and diverted length is also approx. 8 km.
44. Plantation is proposed in 151 Ha of the ML area. Committee opined that PP shall also focus on agro-forestry and fruit bearing species shall be distributed and planted on the periphery of the agricultural farms of the villagers in the study area, by developing a plan to compensate the farmers/ villagers for survival of these fruit bearing trees.
45. Gadegaon village located within the ML area is proposed to be rehabilitated. The project involves 480 projects displaced households and 1700 project affected families. R&R of the PAPs will be done as per R&R policy of Coal India Limited and State Government of Maharashtra.
46. Capital Cost of the said project is Rs. 49741 Lakhs.
47. There is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.
48. Committee opined that PP shall align its activities with the sustainable development goals.
49. The EAC also deliberated on the written submission of the project proponent and found it satisfactory.

**Recommendations of the Committee:**

**27.10.14:** In view of the foregoing and after detailed deliberation, the Committee ***recommended the above mentioned project*** for grant of Terms of Reference by prescribing following specific ToRs for undertaking detailed EIA and EMP study and conduct Public Consultation (along with the public hearing) in addition to generic ToR given at Annexure-I, subject to uploading of written submissions:

**Specific ToRs:**

1. Project Proponent shall submit the drone video & photographs of the ML area and transportation route proposed for this project with special focus on the sensitive receptors in the ML area and in the transportation route.
2. Wildlife Conservation Plan for the Schedule – I species present within the ML area shall be prepared and approved by the PCCF (Wildlife).
3. Project proponent shall submit an action plan for relocation of one school located within the ML area in consultation with the State Government of Maharashtra.
4. Project proponent shall explore the possibilities to avoid the diversion of Panch Nallah, which is flowing through the ML area.
5. Project proponent shall modify the mine plan and mine closure plan of the adjacent Penganga OC of M/s WCL to make the provision of dumping of OB of the Gadegaon Mine of M/s WCL itself as per guidelines of Ministry of Coal dated 31/01/2025.

6. Project proponent shall obtain the EC amendment in the Environment Clearance of the Penganga OC mine of M/s WCL for allowing the dumping of OB of the adjacent Gadegaon Mine of M/s WCL.
7. Project proponent shall modify the mine plan and mine closure plan for the instant Gadegaon Mine of M/s WCL, by reducing the area and depth of void proposed as water body as 328 Ha and 220 m respectively.
8. Project proponent shall submit the environment management plan with specific focus on reducing the air pollution parameters present in the core and buffer zone of the said mines as the same is near the critically polluted area of Chandrapur.
9. A Cumulative Environmental Impact Assessment study of all the coal mines situated adjacent to the mine lease area shall be conducted and the same shall be included in EIA/EMP report. Details of industrial units present in 10 Km radius of the ML area shall be earmarked in map and submitted.
10. Biodiversity analysis of the core zone and buffer zone of the ML area shall be done through any reputed Government institutions. The study report shall inter-alia include impact of mining on flora and fauna and action plan for complying with the mitigation measures shall be submitted. The Ecology and biodiversity study should include likely impact of land use change in terms of use of forest area for surface infrastructural development in relation to the climate change of that area and what will be the affect after adopting the mitigation measures.
11. PP shall explore the possibilities of utilization of OB material for different purposes (in construction of roads/ manufacture of artificial sand, aggregates/ use for farmers etc.) and accordingly Plan shall be included in EIA/EMP Report.
12. Inpit conveyor belt with silo loading shall be proposed and installed for transportation of coal till railway siding.
13. Project proponent to prepare Environmental Cost Benefit Analysis for the project in EIA/EMP Report.
14. Impact of proposed project/activity on hydrological regime of the area shall be assessed and report be submitted. Hydrological studies as per GEC 2015 guidelines to be prepared and submitted.
15. Project proponent shall prepare Watershed management plan through a reputed government agency. Project proponent shall submit the same along with the matrix containing action plan to comply with the recommendations of the study report with physical & financial outlay.
16. The socio-economic study shall be conducted with actual survey report and a comparative assessment to be provided from the census data of 2011-part B to be provided in EIA/ EMP report also economic status of the study area and what economically project will contribute should be clearly mention. The study should also include the status of infrastructural facilities and amenities present in the study area and a comparative assessment with census data of 2011 part A to be provided and to link it with the initialization and quantification of need based survey for CER activities to be followed.
17. A detailed traffic study along with presence of habitation in 100 mts distance from both side of road, the impact on the air quality and noise quality with its proper

measures and plan of action with timeline for widening of road. The project will increase the no. of vehicle along the road which will indirectly contribute to carbon emission so what will be the compensatory action plan should be clearly spell out in EIA/ EMP report.

18. Project proponent shall prepare the EIA-EMP report and thereafter conduct the Public Consultation, including public hearing, through concerned SPCB in the Chandrapur District as per the provisions/procedure contained in the EIA Notification, 2006.
19. PP shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.
20. PP should provide in the EIA Report details of all the statutory clearances, permissions, no objection certificates, consents etc. required for this project under various Acts, Rules and regulations and their status or estimated timeline after grant of EC.
21. The PP should submit the number of saplings to be planted in area to be covered under afforestation & green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development. In addition to this PP should show on a surface plan (5-year interval for life of mine) of suitable scale the area to be covered under afforestation & green belt clearly mentioning the latitude and longitude of the area to be covered during each 5 years. The capital and recurring expenditure to be incurred needs to be submitted. Plantation plan should be prepared in such a way that 80% of the plantation to be carried out in first 5 years and for the remaining years the proposal for gap filling. The seedling of height not less than 2 meters to be selected and accordingly cost of plantation needs to be decided. In addition to this plantation in the safety zone at lease boundary the plantation should be completed within 2 years only. PP should submit a concurrent plantation plan.
22. Project Proponent should submit the quantity of surface or ground water to be used for this project. The complete water balance cycle need to be submitted. In addition to this PP should submit a detailed plan for rain water harvesting measures to be taken. The PP should submit the year wise target for reduction in consumption of the ground/surface water by developing alternative source of water through rain water harvesting measures. The capital and recurring expenditure to be incurred needs to be submitted.
23. Project Proponent shall obtain water withdrawal permission from CGWA for 730 KLD.
24. Project Proponent shall obtain permission obtained from the competent authority for diversion of 765 kV D/C Transmission line (HT).
25. Project Proponent shall obtain permission obtained from the competent authority for diversion of a PWD road and village roads those are passing through the proposed quarry area.
26. Project Proponent should clearly bring out the details of the manpower to be engaged for this project with their roles /responsibilities/designations. In addition to this PP should mention the number and designation of person to be engaged for implementation of environmental management plan (EMP). The capital and recurring expenditure to be incurred needs to be submitted.

27. Project Proponent should submit the year-wise, activity wise and time bound budget earmarked for EMP, occupational health surveillance, and activities proposed to address the issues raised during Public Hearing. The capital and recurring expenditure to be incurred needs to be submitted.
28. In case of ground water abstraction/intersection, the PP shall comply with the Ministry's OM dated 23/05/2019. Compliance status needs to be presented before EAC at the time of appraisal
29. Project Proponent should clearly bring out that what is the specific diesel consumption ~ (Liters/Tonne of total material handled) and steps to be taken for reduction of the same. The year-wise target for reduction in the specific diesel consumption needs to be submitted. PP shall also explore the possibility of using e-vehicles/LPG/CNG-based machinery and trucks for the operation and transportation of coal.
30. All the certificates viz. Involvement of Forest land, distance from protected area, and list of flora & fauna should be duly authenticated by the Forest Department. The Certificate should bear the name, designation, official seal of the person signing the certificate and dispatch number.
31. Details on waste water generation (Industrial and domestic), their treatment (technology, methodology and capacity) and disposal to be submitted.
32. Details on renewable energy proposed to be installed as energy conservation measures shall be submitted.
33. PP shall submit the action plan to adhere to the Plastic Waste Management Rules 2016 and to adhere Ministry's OM dated 18/07/2022.
34. PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of the Environment Management Plan vis-à-vis reduction in the concentration of emission for each APCE.
35. The PP should ensure that only NABET accredited consultant shall be engaged for the preparation of EIA/EMP Reports. PP shall ensure that accreditation of consultant shall be valid during the collection of baseline data, preparation of EIA/EMP report and during the appraisal process. The PP and consultant should submit an undertaking the information and data provided in the EIA Report and submitted to the Ministry are factually correct and PP and consultant are fully accountable for the same.
36. The PP should submit the photographs of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs which will analyse the samples.
37. The R&R Plan shall be prepared for the Gadegaon village, present inside the mine lease area, according to the R&R policy of Govt. of Odisha.
38. Project proponent is advised to implement the 'Ek Ped Maa Ke Naam' Campaign which was launched on 5th June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development.
39. Necessary coordination shall be made with concerned SPCB (who is responsible

for Compliance of OM dated 14.01.2025) regarding streamlining the implementation of GSR 702 and GSR 703 dated 12.11.2024 through which projects requiring prior EC were exempted from requirement of CTE.

**Agenda Item No. 27.11:**

27.11: Chatti Bariatu Coal Mining Project (ML area: 646.23 Ha having the production capacity of 7 MTPA) by **M/s NTPC Mining Limited** located at villages: Chatti Bariatu, Pagar, Jordag; **District: Hazaribagh; State: Jharkhand – Amendment in Environment Clearance – reg.**

**[Online Proposal No. IA/JH/CMIN/536229/2025; Consultant: Min Mec Consultancy Private Limited: NABET/EIA/25-28/RA 0399 – valid up to 30.03.2028]**

**27.11.1:** M/s. NTPC Mining Limited has made an online application vide proposal no. IA/JH/CMIN/536229/2025 dated 29.05.2025 for amendment in Environmental Clearance granted vide letter dated 19.04.2010 & its subsequent amendments.

The instant proposal is for seeking amendment in EC (dated 19.04.2010) Specific Condition no. 2A (ix) & (xi) regarding extension of timeline to allow transportation of coal by road through covered tippers/ dumpers from mine end to Shivpur (26 km), Bachra (38km), Katkamsandi (96 km), Kusmahi (81 km), Biratoli (94 km) & Tori (95 km) railway Sidings for supply of coal to Barh STPP by rail and to transport the coal by road from mine end to NKSTPP (22 km) till 31.03.2028. In addition to this, another amendment sought by the proponent is for extension of timeline for establishment of belt conveyor from mine end to Gopda by June, 2026 and also establishment of railway siding at Gopda by March 2028.

Ministry has earlier amended the EC dated 19.04.2010 on 1.12.2020 & 05.01.2024. Further, the said EC was transferred to M/s. NTPC Mining Limited vide letter dated 08.03.2024. Later, it was again amended in 30.10.2024.

**27.11.2: Details of previous approvals:**

S. No.	Details of Letter No.	EC/Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of issuance	Status of implementation
1	J-11015/133/2007-IA.II(M)	EC	7 MTPA	646.23 Ha	19.04.2010	Being Implemented
2	J-11015/133/2007-IA.II(M)	Revalidation of EC	7 MTPA	646.23 Ha	03.03.2016	Being Implemented
3	J-11015/133/2007-IA.II(M)	Amendment in EC	7 MTPA	646.23 Ha	01.12.2020	Implemented
4	J-11015/133/2007-IA.II(M)	Amendment in EC	7 MTPA	646.23 Ha	05.01.2024	Implemented
5	J-11015/133/2007-IA.II(M)	Transfer of EC	7 MTPA	646.23 Ha	08.03.2024	Transfer of EC from NTPC Ltd. to its wholly owned subsidiary NTPC

S. No.	Details of Letter No.	EC/Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of issuance	Status of implementation
						Mining Limited.
6	J-11015/133/2007-IA.II(M)	Amendment in EC	7 MTPA	646.23 Ha	30.10.2024	Being Implemented

W.r.t the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from 25.04.2022 onwards. CTO renewal has been obtained from the JSPCB and is valid up to 30.06.2027.

Year	Actual Coal Production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess Production
2022-23	0.57	7	NIL
2023-24	3.3	7	NIL
2024-25	4.56	7	NIL
2025-26 (till April 2025)	0.47	7	NIL

**27.11.3: The details of the condition for which amendment is sought and justification for the same is as follows:**

Specific Condition No. as per EC dated 19.04.2010 and its subsequent amendment	Details of Conditions as per EC dated 19.04.2010 & its subsequent amendment	Amendment Sought	Justification
Specific Condition No.- 2A (ix)	<p><b><u>As per EC dated 19.04.2010:</u></b></p> <p>Raw coal from CHP shall be transported by closed conveyors to the railway siding and from there to linked Barh STPS by rail. There shall be no road transportation of coal.</p> <p><b><u>As per EC amendment dated 30.10.2024:</u></b></p> <p>Raw coal from mine end shall</p>	Construction of closed conveyor system by June 2026 and change in mode of transportation of coal by road through covered tippers/dumpers from mine to Shivpur, Bachra, Katkamsandi, Kusmahi, Biratoli and Tori railway Sidings for supply of coal to Barh STPP and transport of coal by road to NKSTPP till <b>March 2028.</b>	<p><b><u>Status of Railway line connecting conveyor</u></b></p> <ol style="list-style-type: none"> <li>1. DPR for the Railway line from Urda/Khadamdari village to the linked Barh/Tanda STPP via Kharika station had been approved by Railways in 2008 and NTPC had applied for forest clearance. Kharika Station was in the proposed ECR railway line from Shivpur – Hazaribagh which was later dropped as MOEF rejected the Forest clearance in January 2011 for the said line.</li> <li>2. Subsequent to re-allocation of the blocks (CB &amp; KD) in the year 2015, the alternate railway alignment for the Shivpur – Hazaribagh line viz Shivpur – Kathautia was finalized, and survey work was started by Railways in 2022.</li> <li>3. DPR for the revised alignment is under finalization by Railways. This matter is being regularly followed with Railways, Dhanbad Division and ECR, Hajipur. NTPC has also requested Ministry of Power to co-ordinate with Ministry of</li> </ol>

Specific Condition No. as per EC dated 19.04.2010 and its subsequent amendment	Details of Conditions as per EC dated 19.04.2010 & its subsequent amendment	Amendment Sought	Justification
	be transported by road through covered tippers/ dumpers to Shivpur, Bachra, Katkamsandi, Kusmahi, Biratoli & Tori railway sidings till 30.06.2025. From these railway sidings coal will be further transported to Barh STPP through rail only. Besides, coal from mine end to North Karampura STPP (over a distance of 24 km) by road till 30.06.2025. Conveyor belt shall also be completed by 30.06.2025.		<p>Railways for expeditious construction of Railway siding.</p> <p>4. During the recent discussion with ECR, Hajipur, it was informed that DPR finalization is under process. Considering the Land Acquisition, Forest Clearance and other construction activities, it may take around 36 months from the date of DPR approval. <b>The work is expected to be completed by March 2028 on best effort basis.</b></p> <p><b><u>Reasons for delay in construction of pipe conveyor system</u></b></p> <p>1. NTPC had awarded the contract to M/s L&amp;T on 27.09.2019 for construction of conveyor system from KDCMP to Urda/Gopda immediately after obtaining the St-II forest clearance on 28.08.2019. The approval for forest land transfer was accorded by Govt of Jharkhand on 23.12.2021 and subsequently tree cutting permission granted on 08.03.2022.</p> <p>2. The schedule for construction of CHP is 24 months from the date of front handover. Land Acquisition and R&amp;R issues along the CHP corridor at times have stalled the construction work.</p> <p>3. Pre-requisite to start the construction of CHP is the availability of encumbrance free land that is not available for the entire stretch of coal evacuation corridor of CB&amp;KD.</p> <p>4. Construction work was delayed due following:</p> <ul style="list-style-type: none"> <li>• Covid-19 from 2019 to 2021</li> <li>• Re-alignment of conveyor due to difference in the rate of land compensation provided by State Govt to landowners of different districts (Hazaribagh &amp; Chatra). This resulted in IR issues in that area and physical possession of land could not be completed. Subsequently, re-engineering of the conveyor system has been done with the help of an agency to accommodate the conveyor system within the Hazaribagh District which further delayed the progress.</li> </ul>
Specific Condition No.- 2A (xi)	<p><b><u>As per EC dated 19.04.2010:</u></b></p> <p>Company's Railway siding shall be established within 3 years from date of grant of environmental clearance.</p> <p><b><u>As per EC amendment dated 30.10.2024:</u></b></p>	Construction of the company's railway siding by <b>March 2028</b> .	

Specific Condition No. as per EC dated 19.04.2010 and its subsequent amendment	Details of Conditions as per EC dated 19.04.2010 & its subsequent amendment	Amendment Sought	Justification
	The company shall use the JCRL railway siding from July 2025.		<ul style="list-style-type: none"> <li>• <b>Law &amp; order issues in the area</b> and at times work was stalled by local villagers and even the contractor persons were manhandled. Law and order situation in the area is hostile and the following major incidents have impacted the construction of the conveyor system: <ul style="list-style-type: none"> <li>– One executive of a construction agency was shot dead on 19.02.2021 by miscreants. Communication to the Nominated Authority regarding the incident had been provided.</li> <li>– NTPC Kerandari's senior executive was shot by miscreants on 08.03.25 creating an atmosphere of fear and lowering the morale of employees and associates. This has restricted working at site in late hours.</li> <li>– L&amp;T office vandalized by locals on 21.04.2025.</li> <li>– Firing of gunshots at NTPC and MDO officials by unidentified persons</li> <li>– Threatening calls to Head of the Project by extremist groups</li> <li>– Life threats and assault of workmen engaged in construction activities by local villagers</li> <li>– Organization of protests by the local politicians by halting the project activities</li> <li>– Setting ablaze the machineries by unknown persons etc.</li> </ul> </li> <li>• Moreover, the tenure of <b>Jharkhand Legislative Assembly elections in November 2024</b> has resulted in lack of workforce and further, the working hours have also been reduced to almost six hours/day due to non-conducive environment following various incidents.</li> </ul> <p><b><u>Status of JCRL Railway Siding Near Simariya</u></b></p> <p>In a recent meeting held with JCRL, JCRL informed that based on the current progress, the expected date for completion of JCRL Siding near Simariya is 30.06.2026.</p> <p><b>Considering the above parameters, the</b></p>

Specific Condition No. as per EC dated 19.04.2010 and its subsequent amendment	Details of Conditions as per EC dated 19.04.2010 & its subsequent amendment	Amendment Sought	Justification
			progress of work has been slowed down. The balance work of the conveyor system is expected to be completed by June 2026.

#### 27.11.4: Progress in construction of conveyor and CHP and action plan:

Activity	Status as on April 2025	Pending Work	Pending Works	Target Date
Electrical and Mechanical Supply	100%	100%	Nil	Completed
Civil Works	78%	80%	Transfer point 3 & associated structures	23.01.2026
Mechanical Erection	55%	65%	Transfer Point 2 & 3, Pipe Conveyor 2AB, SY Conveyor	08.04.2026
Electrical Works	27 %	30%	Substation 2 & 3 & Pipe Conveyor 1/2AB	19.05.2026
<b>Final Commissioning</b>				30.06.2026

#### Constraints:

- Restricted working hours (6 hours in day light only) as this is a sensitive area
- Re-engineering of the conveyor due to difference in land compensation rate in transfer point 3 area (Chatra Dist).
- Land, R&R and law & order issues-Shooting, setting machinery ablaze, threatening calls, etc.

**27.11.5: Present and future mode of transportation:** PP submitted the following coal evacuation arrangement being currently followed and proposed for future:

#### A. Mode of transportation till 31.12.2026:

Currently the coal from Chatti Bariatu Coal Mine and the adjacent Kerandari Coal Mine of M/s NML are transporting the entire coal being produced through road to six railway sidings (Bachra – 38 km, Shivpur – 26 km, Katkamsandi – 95 km, Kusmahi – 81 km, Bira Toli – 92 km and Tori siding – 95 km) and North Karanpura Super Thermal Power Plant (24 km).

Simultaneously, company's CHP and pipe conveyor and Gopda railway siding are under construction. CHP and pipe conveyor are expected to be completed by June 2026 (will become fully operational by December 2026) and Gopda railway siding is expected to be completed by March 2028. Further, JCRL railway siding at Simariya of East Central Railways is under construction. At the same time, it is proposed to construct a dedicated coal transportation road of approximately 8 km from TP3 (end of pipe conveyor) connecting to state highway, leading towards JCRL Simariya railway siding (expected to be constructed by March 2026).

Once the JCRL Simariya Siding and NML's CHP and Conveyor belt are constructed and becomes fully operational, i.e., from 01.01.2027 onwards, the entire coal from Chatti

Bariatu and the adjacent Kerandari coal mines of M/s NML is proposed to be transported through pipe conveyor from TP1 to TP3, thereafter by road from TP3 to JCRL Simariya railway siding and further by rail to the end user.

**B. Mode of transportation from 01.04.2028:**

PP submitted that Gopda railway siding is expected to be completed by March 2028 and thereafter no road transportation of coal will be done. The entire coal production from Chatti Bariatu and the adjacent Kerandari coal mines of M/s NML will be transported by pipe conveyor from TP1 to TP3 and thereafter by rail from Gopda railway siding to the end user.

**27.11.6: Traffic Assessment Study Report:** The Traffic Study has been carried out for assessment of impact due to the transportation of coal by road from Chatti Bariatu Opencast Coal Mine Project pit head to six railway sidings (Bachra – 38 km, Shivpur – 26 km, Katkamsandi – 95 km, Kusmahi – 81 km, Bira Toli – 92 km and Tori siding – 95 km) and North Karanpura Super Thermal Power Plant (24 km). The maximum quantity of coal to be transported from Chatti Bariatu Coal Mine Project to Bachra Railway Siding, North Karanpura Super Thermal Power Plant, Shivpur Railway Siding and Katkamasandi Railway Siding, using four routes, parts of which are overlapping would be 19700 TPD. Corresponding to & fro tippers/ dumpers movement would be maximum 1312 per day or 54-55 tipper/ dumper per hour. Of these 896 trucks/day are already plying on the road. Therefore, there will be increment of 416 tippers or dumpers/ day. Due to no-entry from 7 am to 7 pm at Simariya, the trucks towards Katkamsandi Railway siding, Kusmahi railway siding, Bira Toli railway siding and Tori Chandwa railway siding will move for approximately 12 hours.

- **Traffic Volume and Capacity of the Road:** The present traffic volume is within the design service volume (DSV) for Level of Service B except on the roads having width <7 m such as between RW-02 to RW-02' and RW-02' to RW-03, where it is also exceeding the maximum capacity. Thus, the additional blacktopping of carriageway or provision of by-passes/ alternative additional routes is required for above mentioned sections. After additional blacktopping of carriageway/ providing by-passes/ alternative additional routes, the aforementioned stretch will have sufficient capacity to support existing as well proposed traffic due to Kerandari 'A' (the adjacent mine) & Chatti Bariatu CMPs.
- **Impact on the Ambient Air Quality:** Plying of additional tippers/ dumpers for both CBCM and KDCM would lead to an increase in the amount of air pollutant emissions. The maximum resultant air quality (in the study area) after addition of the incremental GLC values due to plying of coal carrying tippers/dumpers from both Kerandari 'A' & Chatti Bariatu CMP will be 143.88 µg/m<sup>3</sup> for PM<sub>10</sub>, 67.94 µg/m<sup>3</sup> for PM<sub>2.5</sub>, 19.1 µg/m<sup>3</sup> for SO<sub>2</sub> and 32.21 µg/m<sup>3</sup> for NO<sub>2</sub>. It has been found that the concentration of two parameters would remain within the prescribed limits while that of PM<sub>10</sub> and PM<sub>2.5</sub> shall be higher than the National Ambient Air Quality Standards 2009. Therefore, dust control measures, especially for road dust, will be required to be followed at Munda Tola village, PF near Chatti Bariatu and railway sidings.
- **Impact on Ambient Noise:** The sound level from the movement of a dumpers passing on the road is approximately 90 dB(A). This will be a short term increase, prevailing only at the time of passage of tippers. The overall Leq will be lower. At a distance of 7 m, the Leq is anticipated to be approximately 65 dB(A), falling within the limits for commercial areas, which is the usual case within along roads. The noise level monitored in the area,

during the study period, was found well within the permissible limit of the National Ambient Air Quality Standards with respect to noise both during day time and night time for respective land uses (residential/ commercial/ industrial area) except Raham village, which has a marginally high level due to presence of power plant. The noise levels within the mine area were also found to be within the permissible limits for industrial areas. The minimum and maximum noise level observed during day time are ranged from 49.60 dB(A) to 60.31 dB(A), respectively and during Night time from 39.12 dB(A) to 53.36 dB(A), respectively.

- **Impact on Human Health:** In case impact due to both mines' transportation, the incremental particulate emissions will be 15.17  $\mu\text{g}/\text{m}^3$  for  $\text{PM}_{10}$  and 3.67  $\mu\text{g}/\text{m}^3$  for  $\text{PM}_{2.5}$  at Laranga village (adjoining road) on Route 1 (to Bachra siding). Value of  $\text{PM}_{10}$  is found more than the significant figures of 10  $\mu\text{g}/\text{m}^3$ . The high emission level of  $\text{PM}_{10}$  will increase the risk to health of local population located near the receptor points as explained above. However, the emission as calculated by dispersion modeling is for worst case situation i.e. 100% tippers/ dumpers movement on the road. During initial period, impact will be nearly half of the anticipated peak, however, incremental GLC is still anticipated to be above the significant figure. However, to keep the incremental emission of  $\text{PM}_{10}$  and  $\text{PM}_{2.5}$  below threshold concentration for human i.e. 10  $\mu\text{g}/\text{m}^3$ , it is being recommended to take various mitigation measures such as mechanically covered trucks, sweeping on road passing through habitation area, increased frequency of water sprinkling, tyre wash, plantation, etc.
- **Impact on Ecology:** Dust may affect photosynthesis, respiration, transpiration and allow the penetration of phytotoxic gaseous pollutants. Dust from highways and roads are deposited on leaves of road side vegetation and affect by inducing changes in pH, Relative Water Content and species diversity. However, this will be reversible process as the dust on leaves will be washed out during rainy season and in case of high wind. Vegetation act as natural filters by depositing dust particles on their leaf surface, susceptible and highly exposed part of a plant and, thus, makes an important contribution in the improvement of air quality. Leaves act as pollution receptors and decrease dust load of the air. Various Schedule-I species found in the study area as per Wildlife (Protection) Act 1972 amended up to 2019 are such as Sloth bear, Leopard, Python, Leopard Cat, etc. There is chances of man-animal conflict during transportation of coal when the fauna comes on road during its natural movement.

#### **Environmental Management Plan Including Monitoring Program:**

To evaluate the effectiveness of environment management programme, regular monitoring of the important environmental parameters will be carried out to ascertain the following:

- Generate data for predictive or corrective purpose in respect of pollution.
- Effectiveness of pollution control measures and control facilities.
- To assess environmental impacts.
- To follow the trend of parameters which have been identified as critical.
- Ensure compliance to the conditions of the environmental clearances, consent to establish and consent to operate.
- Submit periodical compliance reports to MOEF&CC and SPCB.

The schedule, duration and parameters for monitoring of the proposed route have been proposed for operation phase and the same has been submitted.

**27.11.7: Details of Public Consultation through written submission:** In compliance to additional specific condition no. ix on EC dated 30.10.2024, PP sent a request letter to Jharkhand State Pollution Control Board (JSPCB) for public consultation through written submissions and JSPCB published an advertisement in Prabhat Khabar Hazaribagh edition and Hindustan Times Hazaribagh/ Ranchi edition on 25.04.2025 for inviting the comments from public in order to seek extension in timeline for transportation of coal through road. After completion of the public notice period, JSPCB vide its letter mentioned that only one suggestion/ comment/ view/ objection was received on 26.05.2025, for which PP submitted the following response:

S. No.	Suggestion/ Comment/ View/ Objection	NML's Response
1	SPECIFIC CONDITION No. IX of the ENVIRONMENTAL CLEARANCE (EC) letter No. 1-11015/133/2007-IA.II (M) dated 19th April 2010 issued by the Ministry of Environment, Forest and Climate Change, Government of India to NTPC for its Chatti Bariatu Coal Project in Keredari Block of Hazaribagh District of Jharkhand State under which it had to transport coal through CLOSED CONVEYORS	<p>The closed conveyor system for the Chatti Bariatu Coal Mining Project could not be completed due to delays in obtaining Forest Clearance Stage-II, tree-felling permission, and issues related to land acquisition, law and order, and local issues.</p> <p>Consequently, the Environmental Clearance's Specific Condition number IX has been amended as per the procedure laid down by the Ministry of Environment, Forest and Climate Change for transportation of coal by road.</p>
2	That the Chatti Bariatu coal mining project area of NTPC is a dense wildlife area. It is mainly an area of elephant movement and (Schedule 1-IV) wildlife is found in that area.	<p>A Site-Specific Wildlife Management Plan (SSWLMP) has been prepared for the Chatti Bariatu Mining Project to ensure the protection and safety of wildlife including elephants, in line with the Integrated Wildlife Management Plan.</p> <p>The SSWLMP was approved by the PCCF, CWLW, Jharkhand, vide office order number 34, dated 03.08.2023. For implementation of this plan by forest Division, CBCMP deposited an amount of ₹46.21 crore into the <i>ad hoc</i> CAMPA account (₹24.46 crore in 2021 and ₹21.78 crore in 2023).</p>
3	That in condition number 9 of FOREST CLEARANCE (FC) Stage 2 F.No 8-56/2009-FC dated 17th September 2010 for Pankri Barwadih coal project adjacent to NTPC Chatti Bariatu coal project, condition was given to transport coal through conveyor system to ensure smooth movement of elephants. But surprisingly, condition of coal transportation through conveyor system was not imposed in the conditions of FOREST CLEARANCE (FC) for Chatti Bariatu coal project. It was imposed in SPECIFIC CONDITION number IX of ENVIRONMENTAL CLEARANCE (EC) letter no. NO-J-11015/133/2007-IA.II (M) dated 19th April 2010, in which condition was imposed to transport coal through CLOSED CONVEYORS.	<p>The information cited by the applicant is related to other project whose clearance conditions are different.</p> <p>It is important to note that the construction of conveyor system is mandatory for NTPC Mining Limited's Chatti Bariatu Coal Mining Project, as stipulated in its Environmental Clearance. Appropriate steps are being taken to ensure compliance with this condition.</p>
4	That a site inspection report dated 24/12/2023 has been given by Western Forest Division, Hazaribagh regarding the commencement of mining work without WILD LIFE	The information cited by the applicant is related to other project whose clearance conditions are different.

S. No.	Suggestion/ Comment/ View/ Objection	NML's Response
	PLAN/CAT PLAN by the previously operating coal block projects in the above forest area. In which it is mainly said about NTPC that. NTPC Pakri Barwadih (1026.438 ha): In the proposal for forest land diversion, its stage-11 was done in 2010. Site Specific Wildlife Management Plan was submitted by the user agency in the scheme 2023, which has been approved by the office order number-33. Memorandum No. 1006 dated 03.08.2023 of the Principal Chief Conservator of Forests, Wildlife and Chief Wildlife Warden, Jharkhand, Ranchi, whereas mining has been going on since 2016. Even after approval, no amount has been received from CAMPA for mitigation. Also, it has been mentioned in the Site Inspection Report. Because once mining starts, wildlife is adversely affected and soil erosion also starts. The objective is not achieved due to delay in implementation of Wildlife Plan/CAT Plan. In view of this, it has been opined that there should be a system to start the work of Wildlife Plan/CAT Plan along with mining so that its objective can be achieved.	<p>The case of Pakri Barwadih, NTPC (1026.438 Ha) forest land is not related to the Chatti Bariatu Coal Mining Project.</p> <p>Mining operations at Chatti Bariatu began in April 2022. The project has deposited an amount of ₹46.25 crore into the adhoc CAMPA account for the implementation of the Site-Specific Wildlife Management Plan (₹24.46 crore in 2021 and ₹21.78 crore in 2023). This clearly indicates that arrangements for commencing the Wildlife Plan/CAT Plan alongside mining were initiated in a timely manner.</p>
5	That the above forest area is a list of damage caused to life, property and agriculture by wild elephants due to obstruction of traffic and entering human population in Western Forest Division Hazaribagh and compensation distribution. In which from the year 2019-20 to 2023-24, 25 people died, 7 people were injured and compensation of Rs 10530000.00 has been paid. And compensation amount related to crop/stored grain, house/animal damage in which total cases are 2449, hectares 228.8 quintals 575738 and total compensation amount of Rs 15754276.00 has been paid. At the same time, there has been heavy damage in Forest Division Southern, Chatra. Details of the loss in both the divisions are attached.	<p>The description of damages provided by the applicant refers to a very large area, which is not entirely relevant to the Chatti Bariatu Project.</p> <p>Coal transportation for the Chatti Bariatu Project primarily occurs via the state highway. To date, there have been no reported incidents of elephant <b>casualties</b> during coal transportation. Furthermore, <b>no instances of crop damage</b> by wild elephants have been recorded within the project's impact area.</p> <p>A letter from the <b>Office of the Western Forest Division, Hazaribagh</b>, confirms that there are <b>no officially identified, notified, or recognized elephant or wildlife corridors</b> within their division.</p>
6	That the Chatti Bariatu coal mining project of NTPC violated the rules/conditions of the Environment Protection Act 1986 and the Mine Safety Act 1952 and in the year 2022, forcibly started mining near the residence of the endangered human tribe Birhor community, despite their objections, without displacing them under FRA 2006. Due to which four people have died so far. In this regard, a five-member committee of the district administration had given a report to the Deputy Commissioner Hazaribag through letter no. 540/GO dated 03/05/2024 of the Sub-Divisional Officer Sadar Hazaribag. In	<p>There are <b>34 residential houses in the Birhor Colony</b>. Of these, <b>three homes are located within the CBA land of the Chatti Bariatu Coal Block</b>, with the remaining houses situated in the Dumri Block. Despite this fact, NTPC Mining Limited, in consultation with the district administration and local village representatives, actively engaged with them for relocating to the <b>NTPC R&amp;R Colony in Dhenga</b>. The aim was to provide them with a better living environment, further away from mining activities than their current location. While they initially agreed to move to the R&amp;R Colony, they later declined.</p>

S. No.	Suggestion/ Comment/ View/ Objection	NML's Response
	that report, the investigation team had written in its opinion that "It is not advisable to carry out mining work around Birhor Tola until the Birhor families are rehabilitated from Birhor Tola". Even after that the mining work is continuing. After that two people have died. Till now a total of four Birhor community people have died as per known sources.	<p>NTPC Mining Limited raised this matter many times with administration. It was again discussed in a meeting held on <b>April 13, 2025</b>, chaired by the <b>Commissioner of the Chota Nagpur Division</b>. The meeting saw the participation of the <b>Honorable Member of Parliament for Hazaribagh, the Honorable MLA, and senior district officials</b>. During this meeting, the <b>Deputy Commissioner of Hazaribagh</b> was directed to form a committee. This committee, to be chaired by the <b>DFO (West Division), Hazaribagh</b>, and include the <b>Additional Collector Hazaribagh, Circle Officer, Keredari, NTPC Mining Limited representatives, and the village headman</b>, will identify suitable land for the relocation of the Birhor community.</p> <p>NTPC Mining Limited has allocated a <b>dedicated budget for the rehabilitation of the Birhor community</b>, which will be promptly utilized upon the allocation of land as per the community's preference.</p> <p>Currently, mining operations are being carried out approximately <b>350 meters away from the Birhor community's habitation</b>. All mining activities are undertaken only after obtaining the necessary permissions from statutory bodies. The distance maintained is significantly <b>greater than the approved distance</b> stipulated for mining activities under the law, ensuring the safety of the community.</p>
7	That due to the violation of ENVIRONMENTAL CLEARANCE (EC) condition by NTPC's Chatti Bariatu coal project and coal transportation by road, dozens of common people have died in road accidents so far	<p>Coal transportation by road is being carried out in accordance with the amended conditions of the Environmental Clearance (EC), and there have been no accidents involving CBCMP's coal transport vehicles to date. This is also clear from the information you've provided in the annexures.</p> <p>Additional Measures for Safety taken by NTPC are as follows:</p> <ul style="list-style-type: none"> <li>• Regular maintenance of trucks is ensured.</li> <li>• All truck drivers are regularly screened for alcohol consumption.</li> <li>• Speed of trucks are monitored using speed guns/GPS. If a truck is found exceeding the speed limit, action is taken against the driver, and the trucks are blacklisted.</li> <li>• To raise awareness, drivers receive regular safety briefings through PEP talks.</li> <li>• Only drivers possessing a valid driving license are permitted to operate trucks.</li> </ul>
8	That the Chatti Bariatu coal mining project of NTPC is violating the rules and conditions of	Mining activities are being conducted at a safe distance from the Birhor community. The distance

S. No.	Suggestion/ Comment/ View/ Objection	NML's Response
	<p>the Environment Protection Act 1986 and the Mine Safety Act 1952 and is forcibly mining near the habitat of the endangered human tribe Birhor community in the year 2022 despite their objections without displacing them under FRA 2006.</p> <p>Upon this being set up, the National Human Rights Commission in Case no 427/34/11/2024 dated 08/04/2025 had stated and directed "The Joint Committee has observed that the houses of the Birhors are being destroyed due to blasting work. They have also observed that till the time the Birhors are not relocated, the mining work is not advisable.</p> <p>The Commission has considered the report. Admittedly, mining work is being carried out by NTPC despite the fact that the same is not advisable. The report of the Joint Committee corroborates the same. The facts of the case and the report of the Joint Inspection Committee constraints the Commission to believe that the NTPC and the District Administration have given priority to the mining activity over the lives and well being of the Birhor tribals. Despite problems and loss of lives, the mining seems to continue unabated in the Chatti Bariatu Mining Project. The right to life of the Birhor Community appears to be under threat. Therefore,</p> <p>a) The CMD, National Thermal Power Corporation is directed to inform the Commission within four weeks the reasons for continued mining activity in the Chatti Bariyatu Mining Project despite the fact that a duly constituted Committee has, after identifying health and other issues troubling the Birhors, advised putting on hold the mining activity till the Birhors are relocated. He shall also inform the Commission whether the Social Impact Assessment was carried out prior to initiation of land acquisition process. If yes, the details be also sent to the Commission.</p> <p>b) The Deputy Commissioner, Hazaribagh is directed to inform the Commission within four weeks about the action taken by the District Administration on the findings and observation of the Joint Committee.</p>	<p>maintained is significantly greater than the approved distance stipulated for mining activities under the statute.</p> <p>Currently, mining work is being carried out approximately 350 meters away from Birhor community's habitation. All mining activities are undertaken only after obtaining the necessary permissions from statutory bodies.</p> <p>The relocation of the Birhor community is being handled by the District Administration in cooperation with NTPC that has already been explained in point no. 06.</p>
9	<p>That in view of the earlier notice, the National Commission for Scheduled Tribes has issued a reminder dated 23rd April 2025 to (1) Additional Chief Secretary, Health, Medical</p>	<p>The notice referenced by the applicant is not addressed to NTPC Mining Limited.</p> <p>Moreover, mining operations are being conducted</p>

S. No.	Suggestion/ Comment/ View/ Objection	NML's Response
	Department, (2) Principal Secretary, Scheduled Tribe Welfare Department, (3) Secretary, Forest, Environment and Climate Change Department, (4) Secretary, Mines and Geology Department, (5) Director General of Police, Jharkhand, as NTPC's Chatti Bariatu Coal Mining Project has started mining forcibly in the year 2022 near the residence of the endangered tribe Birhor community, without displacing them under FRA 2006, in violation of the rules and conditions of the Environment Protection Act 1986 and the Mines Safety Act 1952.	in accordance with statutory provisions. Even though the mentioned Birhor families reside outside our boundaries, NTPC Mining Limited has actively taken all necessary steps to relocate them, as detailed in the response to point number 06.
10	That NTPC's Chatti Bariatu coal mining project was in violation of the rules/conditions of the Environment Protection Act 1986 and the Mine Safety Act 1952 and was carrying out mining and coal transplantation by road near the residence of the endangered human tribe Birhor community in the year 2022. Notice was also given by its learned advocate Mr. Naveen Kumar Singh (Jharkhand High Court) on 07/05/2024. But no action was taken.	The notice mentioned by the applicant is not addressed to NTPC Mining Limited. However, NTPC's efforts regarding the rehabilitation of the Birhor families have been detailed in response to point number 06.

**27.11.8: Compliance Status of EC conditions reported as Non-Conformities in EC Amendment dated 30.10.2024:**

S. No.	Stipulated Conditions		Compliance Status	Timeline	Financial Implication
	Non-conformities reported in the RO report	Timeline			
1	Time bound comprehensive plantation plan has been received. However, the plantation plan is yet to be implemented.	Throughout the mining and after end of mining.	<p>Being Complied.</p> <p>Plantation Done by NML:</p> <ul style="list-style-type: none"> <li>33,000 nos. of plants through DFO, along the roads.</li> <li>10,700 nos. of plants in the Safety Zone, OB Dump and Infra Area in F.Y. 2023-24 &amp; 2024-25.</li> <li>9,870 nos. of plants in the Township and R&amp;R Colony</li> <li>1,650 nos. of plants on World Environment Day 2025</li> </ul> <p>Plantation Plan for Monsoon Season of 2025:</p> <ul style="list-style-type: none"> <li>12,000 nos. of plants along with 450 Kg of grass seeds (plantation plan submitted)/</li> <li>64,000 trees along the coal transportation route by DFO (Letter from DFO submitted).</li> </ul>	During Monsoon of 2025	Rs 14.19 Cr for plantation of 97,000 trees by DFO Rs 11.00 Lakhs for 2025 Plantation Plan

2	Construction of closed conveyors to the railway siding and to linked Barh STPS is under progress. The proponent committed that the construction of closed conveyors shall be completed by December 2025.	30/06/2025	Being Complied. <ul style="list-style-type: none"> <li>• Work is under progress</li> <li>• Work Completed till May 2025: 78%</li> <li>• Expected Completion of Work: June 2026</li> </ul>	By June 2026	Rs. 620 Crores
3	Work for the construction of the railway siding is under progress. The proponent committed that the construction of railway siding shall be complied by March 2027.	31/03/2027	Agreed to comply. <ul style="list-style-type: none"> <li>• The DPR has been finalized by ECR. The ECR has released a land acquisition notification on 04.06.2025 for Special Railway Project, Urda-Dhangada New Rail line project in the Chatra District.</li> <li>• Considering the Land Acquisition, Forest Clearance and other construction activities, it will take around 36 months from the date of DPR approval on best effort basis.</li> <li>• Accordingly, the work is expected to be completed by March 2028 (minutes of the meeting attached)</li> </ul>	By March 2028	Rs. 444 Crores
4	The proponent has agreed to complete and installation of ETP by October 2024.	31/10/2024	Complied. <ul style="list-style-type: none"> <li>• The installation of the ETP has been completed at the project (ETP test reports submitted).</li> </ul>	Completed	Rs 27.93 Lakhs
5	R&R plan has not been implemented completely.	Under implementation	Being Complied. <ul style="list-style-type: none"> <li>• The R&amp;R plan has been prepared in line with Jharkhand &amp; National R&amp;R Policy and approved by the Govt of Jharkhand and company board.</li> <li>• Approved Rehabilitation Action Plan- Rs 880 Cr</li> <li>• R&amp;R Cost: Rs 297 Cr</li> <li>• Total R&amp;R expenditure as on date: Rs 134 Cr</li> </ul>	Under implementation as it is a Continuous Process	The cost of approved Rehabilitation Action Plan - Rs 880 Cr as on date

6	Eight nos. of ambient air quality monitoring stations (four in core and four in buffer zone)	Being monitored	<p>Complied.</p> <ul style="list-style-type: none"> <li>Eight nos. of ambient air quality monitoring stations have been established (four in core and four in buffer zone) for monitoring PM10, PM2.5, SO2 and NOx in consultation with <u>JSPCB</u>.</li> <li>The data is being collected and analyzed by M/s. BIOCRAT ENVIRONMENTAL SERVICES, Ranchi, Jharkhand, a laboratory having NABL accreditation and recognized by Jharkhand State Pollution Control Board (Reports submitted).</li> </ul>	Regularly Monitored	Rs 6.50 Lakhs/Annum
7	Land use plan once in three years and the same shall be furnished to this office.	Apr, 2025	<p>Being Complied.</p> <ul style="list-style-type: none"> <li>The land use land cover plan has been prepared by M/s. BIOCRAT ENVIRONMENTAL SERVICES, Ranchi, Jharkhand. (The copy of land use land cover plan attached).</li> </ul>	Completed	Rs 60000
8	Construction of RCC road of 3.6 K.M from weighbridge to Jordag in mines area is under progress	Jan 2025	<p>Complied.</p> <p>The construction of RCC road of 3.6 KM from weighbridge to Jordag in mines area has been completed.</p>	Completed	Rs 14.97 Cr
9	Additional 6 nos. of fog cannons will be deployed	By Nov' 2024	<p>Complied.</p> <ul style="list-style-type: none"> <li>Additional six nos. of fog cannons have been installed (photographs submitted).</li> </ul>	Completed	Rs 24 Lakhs

10	Wildlife Conservation Plan and Site-Specific Wildlife Conservation Plan have not been implemented till date	Implementation of SSWLMP for upcoming years shall be submitted	<p>Complied.</p> <ul style="list-style-type: none"> <li>Site-Specific Wildlife Conservation Plan has been approved by Chief Wildlife Warden, GoJH on Dated 03.08.2023.</li> <li>An amount of Rs. 24.46 Cr was deposited in the <i>ad-hoc</i> CAMPA account on 24.03.2021 for the implementation of Wildlife Management Plan .</li> <li>Further, a differential amount of Rs 21.78 Cr deposited in <i>ad-hoc</i> CAMPA account on 25.11.2023 for implementation of Site-Specific Wildlife Management Plan (SSWLMP).</li> <li>Letter from DFO regarding the utilization of the deposited amount for implementation of SSWLMP during FY 2023-24 &amp; FY 2024-25 has been received.</li> </ul>	Under implementation by State DFO, Hazaribagh	Rs 46.25 Cr
11	CNG/LNG/e-vehicles for transportation of coal shall be explored	E-vehicles at Coal Mining Head Quarters to be deployed by August 2025	<p>Complied.</p> <ul style="list-style-type: none"> <li>Seven nos. of e-vehicles have been deployed for the movement of the staff (photographs submitted).</li> <li>Further, to reduce carbon footprint bus service (replacing 10 nos. of SUVs) have been deployed.</li> </ul>	Completed	Rs 72 Lakhs
12	Impact of air pollution generated by its activities on the forest up to a distance of about 10 K.M. through an institution	CBCMP has approached CSIR-CIMFR through mail to conduct the forest study. The proposal from CSIR-CIMFR is awaited. (Jan 2025)	<p>Complied.</p> <ul style="list-style-type: none"> <li>The study report has been prepared by M/s Everain Global Pvt. Ltd. The copy of study report submitted.</li> </ul>	Completed	Rs 20 Lakhs

**27.11.9: Details of pending Legal Issues/ Violation:** There are certain court cases pending on the project related to R&R issues, land issues etc and PP submitted the details of the same. However, PP reported that there is no legal issue/ violation w.r.t i) Environment (Protection) Act, ii) Air (P&CP) Act, Water (P&CP) Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam 1980, Wildlife Protection Act 1972, MMDR Act, Factories Act.

**Observations and deliberation of the Committee:**

**27.11.10: The EAC noted the following:**

1. MoEF&CC has granted EC for Chatti Bariatu Coal Mining Project of M/s NTPC Limited vide letter no. J-11015/133/2007-IA.II(M), dated 19.04.2010 for capacity of 7 MTPA in an area of 646.23 Ha. Out of 646.23 Ha, 128.92 Ha of forestland involved in the said project and stage – II FC was accorded on 13.04.2017. EC dated 19/04/2010 was revalidated vide letter dated 03.03.2016. EC was amended on 01.12.2020 and 05.01.2024. Further, this EC was transferred from M/s NTPC Limited to M/s NTPC Mining Limited vide letter no. J-11015/133/2007-IA.II(M) dated 08.03.2024 and amended the same vide letter dated 30.10.2024 for allowing extension in road transportation.
2. The above project is partly implemented and the mine is already under operation.
3. The instant proposal is submitted for seeking amendment in specific condition no. 2A (ix) and 2A (xi) of EC letter dated 19.04.2010, further amended by EC letter dated 30.10.2024.
4. It is observed that as per Specific Condition no. 2A (ix) of EC dated 19.04.2010 stipulated that the raw coal from CHP shall be transported by closed conveyors to the railway siding and from there to linked Barh STPP by rail. There shall be no transportation of coal.

Ministry granted further amendment in the said condition by letter dated 30.10.2024, wherein, it stipulated that, *“Raw coal from mine end shall be transported by road through covered tippers/ dumpers to Shivpur, Bachra, Katkamsandi, Kusmahi, Biratoli & Tori railway sidings till 30.06.2025. From these railway sidings coal will be further transported to Barh STPP through rail only. Besides, coal from mine end to North Karampura STPP (over a distance of 24 km) by road till 30.06.2025. Conveyor belt shall also be completed by 30.06.2025.”*

5. Now, through instant proposal PP has sought further extension in timeline to continue to transport coal by road to Shivpur, Bachra, Katkamsandi, Kusmahi, Biratoli and Tori railway Sidings for supply of coal to Barh STPP and transport of coal by road to NKSTPP till March 2028. Further, PP also sought time extension for construction of closed conveyor system by June 2026. However, considering the completion of pipe conveyor and connecting road between TP-3 of conveyor and JCRL, the road transportation to six railway sidings will be restricted to 31/12/2026 only. From 01/01/2027 onwards, the entire coal from Chatti Bariatu and the adjacent Kerandari coal mines of M/s NML is proposed to be transported through pipe conveyor from TP1 to TP3, thereafter by road from TP3 to JCRL Simariya railway siding and further by rail to the end user. Besides, Gopda railway siding is expected to be completed by March 2028 and thereafter no road transportation of coal will be done. The entire coal production from Chatti Bariatu and the adjacent Kerandari coal mines of M/s NML will be transported by pipe conveyor from TP1 to TP3 and thereafter by rail from Gopda railway siding to the end user.

6. Another amendment sought by PP is in Specific Condition no. 2A (xi) of EC dated 19.04.2010, wherein it was stipulated that, Company's Railway siding shall be established within 3 years from date of grant of environmental clearance. As per the latest amendment granted by the Ministry, it was stipulated that, *"The company shall use the JCRL railway siding from July 2025."*
7. Committee deliberated on the reasons for delay in construction of closed conveyor and the railway line connecting conveyor belt and observed that due to COVID – 19 pandemic, various law and order situation in that particular area and re-alignment of conveyor due to difference in the rate of land compensation provided by State Govt to landowners of different districts (Hazaribagh & Chatra), there has been delay in construction of closed conveyor and now the same is expected to be completed by June 2026. Further, there is delay in construction of railway line as due to non – availability of forestry clearance which was part of previously approved DPR has to be dropped, an alternate railway alignment for the Shivpur – Hazaribagh line viz Shivpur – Kathautia was finalized, and survey work was started by Railways in 2022. DPR for the revised alignment is under finalization by Railways. In recent discussion with Eastern Central Railways, it was informed that DPR finalization is under process. Considering the Land Acquisition, Forest Clearance and other construction activities, it may take around 36 months from the date of DPR approval. Hence, the work is expected to be completed by March 2028 on best effort basis.
8. Committee further deliberated on the status of JCRL railway siding and observed that, JCRL informed that based on the current progress, the expected date for completion of JCRL Siding near Simariya is 30.06.2026.
9. Committee during the deliberation observed that, conveyor belt from TP1 to TP3 is expected to be completed by June 2026. However, the same will take some more time to commission and become operational. At the same time, the JCRL Siding Simaria, which is expected to be completed by June 2026 might take some more time to complete due to local law and order situation in that region.
10. Committee deliberated on the ongoing and proposed coal evacuation system as discussed in para 27.11.5 above and opined that the PP shall acquire all necessary permissions and required measures to construct the road of approx. 8 km from TP3 to state highway for transportation of coal from 01.01.2027 onwards.
11. Committee opined that, PP shall immediately start with the required studies, bidding process and obtain necessary permissions from the competent authority in order to construct a road from the end of TP3 to JCRL Siding Simaria.
12. During the detailed deliberation Committee opined that PP shall be allowed to complete the construction of Gopda railway siding by March 2028 and the pipe conveyor by June 2026. For the time being, the PP shall be allowed to transport coal by road to 6 different railway sidings i.e., Shivpur (26 km), Bachra (38 km), Katkamsandi (96 km), Kusmahi (81 km), Biratoli (94 km) & Tori (95 km). Committee further opined that, PP shall regularly follow up with JCRL in order to ensure the commissioning of JCRL siding Simaria by December 2026, so that

01.01.2027 onwards, the JCRL siding Simaria can be used for coal transportation from Chatti Bariatu Coal Mine and Kerandari Coal Mine of M/s NML, as this will significantly reduce the distance of road for transportation of coal.

13. Committee further deliberated on the protection measures being undertaken by the PP during coal transportation of coal and observed that, PP is complying with all the protection measures as previously stipulated. Committee opined that PP shall continue with the same and shall increase the protection measures as and when required.

### Recommendations of the Committee:

**27.11.11:** After deliberations, the Committee **recommended** the proposal for amendment in EC granted vide file no. J-11015/133/2007-IA.II(M) dated 19.04.2010 & its amendment dated 30.10.2024, as detailed below subject to stipulation of following additional specific conditions. Other terms and conditions prescribed in EC dated 19.04.2010 and its subsequent amendment shall remain unchanged:

Condition No. as per EC dated 19.04.2010 & its subsequent amendment	Description as per approved EC	Amendment sought in EC	Justification/ Remarks
Specific Condition No.- 2A (ix)	<p><b><u>As per EC dated 19.04.2010:</u></b></p> <p>Raw coal from CHP shall be transported by closed conveyors to the railway siding and from there to linked Barh STPS by rail. There shall be no road transportation of coal.</p> <p><b><u>As per EC amendment dated 30.10.2024:</u></b></p> <p>Raw coal from mine end shall be transported by road through covered tippers/ dumpers to Shivpur, Bachra, Katkamsandi, Kusmahi, Biratoli &amp; Tori railway sidings till 30.06.2025. From these railway sidings coal will be further transported to Barh STPP through rail only. Besides, coal from mine end to North Karampura</p>	<p>Construction of closed conveyor system by June 2026 and change in mode of transportation of coal by road through covered tippers/dumpers from mine to Shivpur, Bachra, Katkamsandi, Kusmahi, Biratoli and Tori railway Sidings for supply of coal to Barh STPP and transport of coal by road to NKSTPP till March 2028.</p>	<p><b>Partially agreed</b></p> <p>With regard to the changes in specific condition 2A(ix), Committee is of the opinion to amend specific condition 2A(ix) as follows:</p> <p><b><i>“The coal transportation system shall be as follows:</i></b></p> <p><b><i>a. PP shall be allowed to transport coal from the said mine to the Shivpur, Bachra, Katkamsandi, Kusmahi, Biratoli &amp; Tori railway sidings till 31.12.2026 by road through covered tippers/ dumpers. From these railway sidings coal will be further transported to Barh STPP through rail only. Besides, coal from mine end to North Karampura STPP (over a distance of 24 km) by road till 31.12.2026. Meanwhile, project proponent shall ensure the construction and operation of pipe conveyor as well as connecting road between TP-3 of conveyor and JCRL railway siding at Simariya.</i></b></p> <p><b><i>b. Project proponent shall transport entire coal produced from the said mine</i></b></p>

Condition No. as per EC dated 19.04.2010 & its subsequent amendment	Description as per approved EC	Amendment sought in EC	Justification/ Remarks
	STPP (over a distance of 24 km) by road till 30.06.2025. Conveyor belt shall also be completed by 30.06.2025.		<i>through pipe conveyor from TP1 to TP3 and then by road from TP3 to JCRL railway siding Simariya from 01.01.2027 onwards.</i> <i>c. Project proponent shall establish Gopda railway siding by March 2028 and no road transportation of coal shall be allowed after 31.03.2028."</i>
Specific Condition No.- 2A (xi)	<b><u>As per EC dated 19.04.2010:</u></b> Company's Railway siding shall be established within 3 years from date of grant of environmental clearance.  <b><u>As per EC amendment dated 30.10.2024:</u></b> The company shall use the JCRL railway siding from July 2025.	Construction of the company's railway siding by <b>March 2028</b> .	<b>Agreed</b>  With regard to the changes in specific condition 2A(xi), Committee is of the opinion to amend specific condition 2A(xi) as follows:  <i>"Company's Gopda railway siding shall be established and become operational by 31<sup>st</sup> March 2028."</i>

#### **Additional Specific Conditions:**

1. Project proponent shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.
2. Three tier plantation with native species of saplings of not less than 2 meter height, shall be developed on both the sides of the coal transportation road proposed to be constructed from TP3 connecting to State Highway towards JCRL railway siding Simariya.

#### **Agenda Item No. 27.12:**

27.12: Kerandari Coal Mining Project [project area 1173 Ha (ML area – 784 Ha) having capacity 6 MTPA] by **M/s NTPC Mining Limited** located at villages: Pandu, Pagar, Basaria, Lochar, Baledori, Kabed, Tarhesa; **District: Hazaribagh; State: Jharkhand – Amendment in Environment Clearance – reg.**

**[Online Proposal No. IA/JH/CMIN/537135/2025; Consultant: Min Mec Consultancy Private Limited: NABET/EIA/25-28/RA 0399 – valid up to 30.03.2028]**

**27.12.1:** M/s. NTPC Mining Limited has made an online application vide proposal no. IA/JH/CMIN/537135/2025 dated 29.05.2025 seeking for amendment in Environmental Clearance granted vide Letter No. J-11015/133/2007-IA.II(M) dated 31.03.2010.

The instant proposal is for seeking amendment in EC Specific Condition no. 2A (xi) & (xiv) accorded vide letter no. J-11015/133/2007-IA.II(M) dated 31.03.2010 regarding extension of timeline to allow transportation of coal by road through covered tippers/ dumpers from mine end to Shivpur (28.8 km), Bachra (40.5 km), Katkamsandi (97.6 km), Kusmahi (83.3km), Biratoli (94.6 km) & Tori (97.9 km) railway Sidings for supply of coal to Barh STPS/ Tanda STPS by rail and to transport the coal by road from mine end to NKSTPP (26.3 km) till 31.03.2028. In addition to this, another amendment sought by the proponent is for extension of timeline for establishment of belt conveyor from mine end to Gopda by March 2028 and also establishment of railway siding at Gopda by March 2028.

Ministry has earlier amended the EC dated 31.03.2010 on 05.02.2024. Further, the said EC was transferred to M/s. NTPC Mining Limited vide letter dated 08.03.2024. Later, it was again amended vide letter dated 30.10.2024.

**27.12.2: Details of previous approvals:**

S. No.	Details of Letter No.	EC/Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of issuance	Status of implementation
1	J-11015/133/2007-IA.II(M) dated 31.03.2010	EC	6 MTPA	1173 Ha	31.03.2010	Fresh
2	J-11015/133/2007-IA.II(M) dated 28.10.2015	Revalidation of EC	6 MTPA	1173 Ha	28.10.2015	Revalidation of EC due to re-allotment of coal block in 2015
3	J-11015/120/2007-IA.II(M) dated 05.02.2024	Amendment in EC	6 MTPA	1173 Ha	05.02.2024	Road transport granted till 31.10.2024
4	J-11015/133/2007-IA.II(M) dated 08.03.2024	Transfer of EC	6 MTPA	1173 Ha	08.03.2024	Transferred from NTPC Ltd to NTPC Mining Ltd
5	J-11015/133/2007-IA.II(M) dated 30.10.2024	Amendment in EC	6 MTPA	1173 Ha (ML area 654 Ha)	30.10.2024	Road transport granted till 30.06.2025

W.r.t the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from 05.04.2023 onwards.

Details of the same are as follows:

Year	Actual Coal Production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess Production
2023-2024	0.02	6	NIL
2024-2025	2.03	6	NIL

Year	Actual Coal Production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess Production
2025-2026 (till April 2025)	0.214	6	NIL

**27.12.3: The details of the condition for which amendment is sought and justification for the same is as follows:**

Specific Condition No. as per EC dated 31.03.2010 and its subsequent amendment	Details of Conditions as per EC dated 31.03.2010 & its subsequent amendment	Amendment Sought	Justification
Specific Condition No.- 2A (xi)	<p><u><b>As per EC dated 31.03.2010:</b></u></p> <p>Raw coal from CHP shall be transported by closed conveyors to the railway siding proposed at village Khadamdari and thereafter by rail to the linked Tanda/ Barh STPP. The conveyor-cum-rail corridor consisting of a stretch of 13.1 km of rail and 10.5 km of overhead closed conveyors and extend upto unloading part of the railway siding with Silo Loading facilities and from there to the linked Barh STPP/ Tanda by rail. There shall be no road transportation of coal.</p> <p><u><b>As per EC amendment dated 30.10.2024:</b></u></p> <p>Raw coal from mine end shall be transported by road through covered tippers/dumpers to Shivpur, Bachra, Katkamsandi, Kusmahi, Biratoli &amp; Tori railway sidings till 30.06.2025. From these railway sidings coal will be further transported to Barh</p>	<p>Change in mode of transportation of coal by road through covered tippers/dumpers from mine to Shivpur, Bachra, Katkamsandi, Kushmahi, Bira Toli &amp; Tori railway sidings for supply of coal to Tanda STPP and transport of coal by road to NKSTPP till 31.03.2028</p>	<p><b>Delay in construction of Conveyor system</b></p> <p>Pre-requisite to start the construction of CHP is the availability of encumbrance free land that is not available for the entire stretch of coal evacuation corridor of CB&amp;KD. For construction of CHP, NTPC had awarded the contract to M/s L&amp;T on 27.09.2019 immediately after obtaining the St-II forest clearance on 28.08.2019; However, approval of forest land transfer accorded by Govt of Jharkhand only on 23.12.2021. Subsequently Tree cutting permission was received on 08.03.2022. At present, approx. <b>78%</b> of conveyor work is completed and the balance work is expected to be completed by June' 2026.</p> <p>The schedule for construction of CHP is 24 months from the date of front handover. Land Acquisition and R&amp;R issues along the CHP corridor at times have stalled the construction work.</p> <p>In addition to the above, law and order situation in the area is hostile and the following incidents have impacted the construction of the conveyor system:</p> <ul style="list-style-type: none"> <li>• NTPC Kerandari's Senior executive was shot by miscreants on 08.03.2025 creating an atmosphere of fear and lowering the morale of employees and associates. This has restricted working at site in late hours.</li> <li>• One executive of a construction agency was shot dead on 19.02.2021 by miscreants</li> <li>• L&amp;T office vandalized by locals on 21.04.2025.</li> <li>• Two dumpers were torched by miscreants on 01.06.25.</li> <li>• Firing of gunshots at NTPC and MDO</li> </ul>

Specific Condition No. as per EC dated 31.03.2010 and its subsequent amendment	Details of Conditions as per EC dated 31.03.2010 & its subsequent amendment	Amendment Sought	Justification
	STPP/ Tanda STPS through rail only. Besides, coal from mine end to North Karampura STPP (over a distance of 26.3 km) by road till 30.06.2025. Conveyor belt shall also be completed by 30.06.2025.		<p>officials by unidentified persons</p> <ul style="list-style-type: none"> <li>Threatening calls to Head of the Project by extremist groups</li> <li>Life threats to workmen engaged in construction activities by local villagers</li> <li>Organization of Mahajutaan/ Mahapanchayat by the local politicians by halting the project activities</li> <li>Setting ablaze the machineries by unknown persons etc.</li> </ul> <p>Moreover, the tenure of General Jharkhand Legislative Assembly Elections (2024) has resulted in lack of workforce and further, the working hours have also been reduced to almost six hours/day due to resistance of local Villagers.</p> <p><b>Status of Railway line connecting conveyor</b> The alternate railway alignment for the Shivpur – Hazaribagh line viz Shivpur – Kathautia was finalized subsequently, and survey work started by Railways only in 2022. DPR for the revised alignment is under finalization by Railways. This matter is being regularly followed with Railways, Dhanbad Division and ECR, Hajipur. NTPC has also requested Ministry of Power to co-ordinate with Ministry of Railways for expeditious construction of Railway siding. During the recent discussion with ECR, Hajipur dated 04.04.2025, it was informed that DPR finalization is under process. Considering the Land Acquisition, Forest Clearance and other construction activities, it may take around 36 months from the date of DPR approval. The work is expected to be completed by <b>March 2028</b> on best effort basis.</p>
Specific Condition No.- 2A (xiv)	<p><b><u>As per EC dated 31.03.2010:</u></b></p> <p>Company's Railway Siding at village Khadambari shall be established within 3 years from date of grant of Environmental Clearance. The pp is permitted till 30.06.2025 to use Service road/ State Highways for transportation of coal to the railway siding.</p> <p><b><u>As per EC amendment dated 30.10.2024:</u></b></p> <p>As proposed, PP shall complete the balance work of conveyor and CHP by 30.06.2025. The company shall use the JCRL railway siding from July 2025</p>	The Company's Railway Siding shall be established by March 2028	

**27.12.4: Progress in construction of conveyor and CHP and action plan:**

Activity	Status as on April 2025	Pending Work	Pending Works	Target Date
Electrical and Mechanical Supply	100%	100%	Nil	Completed
Civil Works	78%	80%	Transfer point 3 & associated structures	23.01.2026
Mechanical Erection	55%	65%	Transfer Point 2 & 3, Pipe Conveyor 2AB, SY Conveyor	08.04.2026
Electrical Works	27 %	30%	Substation 2 & 3 & Pipe Conveyor 1/2AB	19.05.2026
<b>Final Commissioning</b>				30.06.2026

**Constraints:**

- Restricted working hours (6 hours in day light only) as this is a sensitive area
- Re-engineering of the conveyor due to difference in land compensation rate in transfer point 3 area (Chatra Dist).
- Land, R&R and law & order issues-Shooting, setting machinery ablaze, threatening calls, etc.

**27.12.5: Present and future mode of transportation:** PP submitted the following coal evacuation arrangement being currently followed and proposed for future:

**C. Mode of transportation till 31.12.2026:**

Currently the coal from Kerandari Coal Mine and Chatti Bariatu Coal Mine the adjacent of M/s NML are transporting the entire coal being produced through road to six railway sidings [Shivpur (28.8 km), Bachra (40.5 km), Katkamsandi (97.6 km), Kusmahi (83.3km), Biratoli (94.6 km) & Tori (97.9 km) railway Sidings for supply of coal to Barh STPS/ Tanda STPS by rail and to transport the coal by road from mine end to NKSTPP (26.3 km)].

Simultaneously, company's CHP and pipe conveyor and Gopda railway siding are under construction. CHP and pipe conveyor are expected to be completed by June 2026 (will become fully operational by December 2026) and Gopda railway siding is expected to be completed by March 2028. At the same time, a JCRL railway siding at Simariya of East Central Railways is under construction. At the same time, it is proposed to construct a dedicated coal transportation road of approximately 8 km from TP3 (end of pipe conveyor) connecting to state highway, leading towards JCRL Simariya railway siding (expected to be constructed by March 2026).

Once the JCRL Simariya Siding and NML's CHP and Conveyor belt are constructed and becomes fully operational, i.e., from 01.01.2027 onwards, the entire coal from Kerandari coal mines and Chatti Bariatu the adjacent of M/s NML is proposed to be transported through pipe conveyor from TP1 to TP3, thereafter by road from TP3 to JCRL Simariya railway siding and further by rail to the end user.

**D. Mode of transportation from 01.04.2028:**

PP submitted that Gopda railway siding is expected to be completed by March 2028 and thereafter no road transportation of coal will be done. The entire coal production from Kerandari coal mine and Chatti Bariatu coal mine, the adjacent of M/s NML will be transported by pipe conveyor from TP1 to TP3 and thereafter by rail from Gopda railway siding to the end user.

**27.12.6: Traffic Assessment Study Report: Traffic Assessment Report:** A revised Traffic Study Report as per the recommendations of the Committee has been submitted by the PP. The Traffic Study has been carried out for assessment of impact due to the transportation of coal by road from Kerandari 'A' CMP pit head to six railway sidings (Bachra – 40.5 km, Shivpur – 28.8 km, Katkamsandi – 97.6 km, Kusmahi -83.3 km, Bira Toli -94.6 km and Tori siding – 97.9 km) and North Karanpura Super Thermal Power Plant – 26.3 km. The maximum quantity of coal to be transported from Kerandari 'A' Coal Mine Project to Bachra Railway Siding, North Karanpura Super Thermal Power Plant, Shivpur Railway Siding, Katkamsandi Railway Siding, Kusmahi Railway Siding, Bira Toli Railway Siding and Tori

Railway siding through road, would be 16000 TPD. Corresponding to & fro tippers/ dumpers movement would be maximum 1070 per day or 44-45 tipper/ dumper per hour. This traffic will be distributed on the seven roads. Due to no-entry from 7 am to 7 pm at Simariya, the trucks towards Katkamsandi Railway siding, Kusmahi railway siding, Bira Toli railway siding and Tori Chandwa railway siding will move for approximately 12 hours.

- **Traffic Volume and Capacity of the Road:** The present traffic volume is within the design service volume (DSV) for Level of Service B except on the roads having width <7 m such as between RW-02 to RW-02' and RW-02' to RW-03, where it is also exceeding the maximum capacity. Thus, the additional blacktopping of carriageway or provision of by-passes/ alternative additional routes is required for above mentioned sections. After additional blacktopping of carriageway/ providing by-passes/ alternative additional routes, the aforementioned stretch will have sufficient capacity to support existing as well proposed traffic due to Kerandari 'A' & Chatti Bariatu (the adjacent mine) CMPs.
- **Impact on the Ambient Air Quality:** Plying of additional tippers/ dumpers for both CBCM and KDCM would lead to an increase in the amount of air pollutant emissions. The maximum resultant air quality (in the study area) after addition of the incremental GLC values due to plying of coal carrying tippers/dumpers from both Kerandari 'A' & Chatti Bariatu CMP will be 143.88  $\mu\text{g}/\text{m}^3$  for  $\text{PM}_{10}$ , 67.94  $\mu\text{g}/\text{m}^3$  for  $\text{PM}_{2.5}$ , 19.1  $\mu\text{g}/\text{m}^3$  for  $\text{SO}_2$  and 32.21  $\mu\text{g}/\text{m}^3$  for  $\text{NO}_2$ . It has been found that the concentration of two parameters would remain within the prescribed limits while that of  $\text{PM}_{10}$  and  $\text{PM}_{2.5}$  shall be higher than the National Ambient Air Quality Standards 2009. Therefore, dust control measures, especially for road dust, will be required to be followed at Munda Tola village, PF near Chatti Bariatu and railway sidings.
- **Impact on Ambient Noise:** The sound level from the movement of a dumpers passing on the road is approximately 90 dB(A). This will be a short term increase, prevailing only at the time of passage of tippers. The overall  $\text{Leq}$  will be lower. At a distance of 7 m, the  $\text{Leq}$  is anticipated to be approximately 65 dB(A), falling within the limits for commercial areas, which is the usual case within along roads. The noise level monitored in the area, during the study period, was found well within the permissible limit of the National Ambient Air Quality Standards with respect to noise both during day time ( and night time for respective land uses (residential/ commercial/ industrial area) except Raham village, which has a marginally high level due to presence of power plant. The noise levels within the mine area were also found to be within the permissible limits for industrial areas. The minimum and maximum noise level observed during day time are ranged from 49.60 dB(A) to 60.31 dB(A), respectively and during Night time from 39.12 dB(A) to 53.36 dB(A), respectively.
- **Impact on Human Health:** In case impact due to both mines' transportation, the incremental particulate emissions will be 15.17  $\mu\text{g}/\text{m}^3$  for  $\text{PM}_{10}$  and 3.67  $\mu\text{g}/\text{m}^3$  for  $\text{PM}_{2.5}$  at Laranga village (adjoining road) on Route 1 (to Bachra siding). Value of  $\text{PM}_{10}$  is found more than the significant figures of 10  $\mu\text{g}/\text{m}^3$ . The high emission level of  $\text{PM}_{10}$  will increase the risk to health of local population located near the receptor points as explained above. However, the emission as calculated by dispersion modeling is for worst case situation i.e. 100% tippers/ dumpers movement on the road. During initial period, impact will be nearly half of the anticipated peak, however, incremental GLC is still anticipated to be above the significant figure. However, to keep the incremental emission of  $\text{PM}_{10}$  and  $\text{PM}_{2.5}$  below threshold concentration for human i.e. 10  $\mu\text{g}/\text{m}^3$ , it is being recommended to take various

mitigation measures such as mechanically covered trucks, sweeping on road passing through habitation area, increased frequency of water sprinkling, tyre wash, plantation, etc.

- **Impact on Ecology:** Dust may affect photosynthesis, respiration, transpiration and allow the penetration of phytotoxic gaseous pollutants. Dust from highways and roads are deposited on leaves of road side vegetation and affect by inducing changes in pH, Relative Water Content and species diversity. However, this will be reversible process as the dust on leaves will be washed out during rainy season and in case of high wind. Vegetation act as natural filters by depositing dust particles on their leaf surface, susceptible and highly exposed part of a plant and, thus, makes an important contribution in the improvement of air quality. Leaves act as pollution receptors and decrease dust load of the air. Various Schedule-I species found in the study area as per Wildlife (Protection) Act 1972 amended upto 2019 are such as Sloth bear, Leopard, Python, Leopard Cat, etc. There is chances of man-animal conflict during transportation of coal when the fauna comes on road during its natural movement.

### **Environmental Management Plan Including Monitoring Program:**

To evaluate the effectiveness of environment management programme, regular monitoring of the important environmental parameters will be carried out to ascertain the following:

- Generate data for predictive or corrective purpose in respect of pollution.
- Effectiveness of pollution control measures and control facilities.
- To assess environmental impacts.
- To follow the trend of parameters which have been identified as critical.
- Ensure compliance to the conditions of the environmental clearances, consent to establish and consent to operate.
- Submit periodical compliance reports to MOEF&CC and SPCB.

The schedule, duration and parameters for monitoring of the proposed route have been proposed for operation phase and the same has been submitted.

**27.12.7: Details of Public Consultation through written submission:** In compliance to additional specific condition no. 1.10 on EC dated 30.10.2024, PP sent a request letter to Jharkhand State Pollution Control Board (JSPCB) for public consultation through written submissions and JSPCB published an advertisement in Prabhat Khabar Hazaribagh edition and Hindustan Times Hazaribagh/ Ranchi edition on 25.04.2025 for inviting the comments from public in order to seek extension in timeline for transportation of coal through road. After completion of the public notice period, JSPCB vide its letter mentioned that only one suggestion/ comment/ view/ objection was received on 26.05.2025, for which PP submitted the following response:

S. No.	Suggestion/ Comment/ View/ Objection	NML's response
1	SPECIFIC CONDITION No. IX of the ENVIRONMENTAL CLEARANCE (EC) letter No. 1-11015/133/2007-IA.II (M) dated 19th April 2010 issued by the Ministry of Environment, Forest and Climate Change, Government of India to NTPC for its Chatti Bariatu Coal Project in Keredari Block of Hazaribagh District of Jharkhand State under which it had to transport coal through CLOSED	The closed conveyor system for the Kerandari Coal Mining Project could not be completed due to delays in obtaining Forest Clearance Stage-II, tree-felling permission, and issues related to land acquisition, law and order, and local issues. Consequently, the Environmental Clearance's Specific Condition number XI has been

S. No.	Suggestion/ Comment/ View/ Objection	NML's response
	CONVEYORS.	amended as per the procedure laid down by the Ministry of Environment, Forest and Climate Change for transportation of coal by road.
2	That the Chatti Bariatu coal mining project area of NTPC is a dense wildlife area. It is mainly an area of elephant movement and (Schedule 1-IV) wildlife is found in that area.	A Site-Specific Wildlife Management Plan (SSWLMP) including Elephants has been prepared for the Kerandari Mining Project to ensure the protection and safety of wildlife, in line with the Integrated Wildlife Management Plan. The SSWLMP received approval from the PCCF, CWLW, Jharkhand, vide office order number 40, dated 11.10.2021. For implementation of this plan by forest division, KDCMP deposited an amount of ₹24.76 crore (in 2020) into the <i>ad hoc</i> CAMPA account.
3	That in condition number 9 of FOREST CLEARANCE (FC) Stage 2 F.No 8-56/2009-FC dated 17th September 2010 for Pakri Barwadih coal project adjacent to NTPC Chatti Bariatu coal project, condition was given to transport coal through conveyor system to ensure smooth movement of elephants. But surprisingly, condition of coal transportation through conveyor system was not imposed in the conditions of FOREST CLEARANCE (FC) for Chatti Bariatu coal project. It was imposed in SPECIFIC CONDITION number IX of ENVIRONMENTAL CLEARANCE (EC) letter no. NO-J-11015/133/2007-IA.II (M) dated 19th April 2010, in which condition was imposed to transport coal through CLOSED CONVEYORS.	The information cited by the applicant pertains to other project whose clearances conditions are different. It is important to note that construction of conveyor system is mandatory for NTPC mining Limited - Kerandari Coal Mining Project stipulated in the Environmental Clearance (EC). Appropriate steps are being taken to ensure compliance with the conditions.
4	That a site inspection report dated 24/12/2023 has been given by Western Forest Division, Hazaribagh regarding the commencement of mining work without WILD LIFE PLAN/CAT PLAN by the previously operating coal block projects in the above forest area. In which it is mainly said about NTPC that. NTPC Pakri Barwadih (1026.438 ha): In the proposal for forest land diversion, its stage-11 was done in 2010. Site Specific Wildlife Management Plan was submitted by the user agency in the scheme 2023, which has been approved by the office order number-33. Memorandum No. 1006 dated 03.08.2023 of the Principal Chief Conservator of Forests, Wildlife and Chief Wildlife Warden, Jharkhand, Ranchi, whereas mining has been going on since 2016. Even after approval, no amount has been received from CAMPA for mitigation. Also, it has been mentioned in the Site Inspection Report. Because once mining starts, wildlife is adversely affected and soil erosion also starts. The objective is not achieved due to delay in implementation of Wildlife Plan/CAT Plan. In view of this, it has been opined that there should be a system to start the work of Wildlife Plan/CAT Plan along with mining so that its objective can be achieved.	The information cited by the applicant is related to other project whose clearance conditions are different. The case of NTPC Pakri Barwadih (1026.438 Ha) forest land is not connected to the Kerandari Coal Mining Project. Mining operations at Kerandari CMP began in April 2023. The project has deposited an amount of ₹24.76 crore (in 2020) into the <i>ad hoc</i> CAMPA account for the implementation of the Site-Specific Wildlife Management Plan. This clearly indicates that arrangements for commencing the Wildlife Plan/ CAT Plan alongside mining were initiated in a timely manner.

S. No.	Suggestion/ Comment/ View/ Objection	NML's response
5	That the above forest area is a list of damage caused to life, property and agriculture by wild elephants due to obstruction of traffic and entering human population in Western Forest Division Hazaribagh and compensation distribution. In which from the year 2019-20 to 2023-24, 25 people died, 7 people were injured and compensation of Rs 10530000.00 has been paid. And compensation amount related to crop/stored grain, house/animal damage in which total cases are 2449, hectares 228.8 quintals 575738 and total compensation amount of Rs 15754276.00 has been paid. At the same time, there has been heavy damage in Forest Division Southern, Chatra. Details of the loss in both the divisions are attached.	The description of damages provided by the applicant does not pertain to the area affected by the Kerandari Coal Mining Project. Coal transportation is carried out mainly via the state highway. There have been no reported incidents of elephant casualties during coal transport to date. Furthermore, no incidents of crop damage by wild elephants have been recorded within the project's impact area. In addition to above, as per the letter received from the Office of West Forest Division, Hazaribagh, states that there are no officially identified, notified, or recognized elephant/wildlife corridors within the division.
6	That the Chatti Bariatu coal mining project of NTPC violated the rules/conditions of the Environment Protection Act 1986 and the Mine Safety Act 1952 and in the year 2022, forcibly started mining near the residence of the endangered human tribe Birhor community, despite their objections, without displacing them under FRA 2006. Due to which four people have died so far. In this regard, a five-member committee of the district administration had given a report to the Deputy Commissioner Hazaribagh through letter no. 540/GO dated 03/05/2024 of the Sub-Divisional Officer Sadar Hazaribagh. In that report, the investigation team had written in its opinion that "It is not advisable to carry out mining work around Birhor Tola until the Birhor families are rehabilitated from Birhor Tola". Even after that the mining work is continuing. After that two people have died. Till now a total of four Birhor community people have died as per known sources.	The issue concerning the Birhor Colony is unrelated to the Kerandari Coal Mining Project.
7	That due to the violation of ENVIRONMENTAL CLEARANCE (EC) condition by NTPC's Chatti Bariatu coal project and coal transportation by road, dozens of common people have died in road accidents so far. Available information is attached	Coal transportation by road is being carried out in accordance with the amended conditions of the Environmental Clearance (EC), and there have been no accidents involving KDCMP coal transport vehicles to date. Additional Measures for Safety: <ul style="list-style-type: none"> <li>• Regular maintenance of trucks is ensured.</li> <li>• All truck drivers are regularly screened for alcohol consumption.</li> <li>• Speed of truck are monitored using speed guns and GPS. If a truck is found exceeding the speed limit, action is taken against the driver, and the trucks are blacklisted.</li> <li>• To raise awareness, drivers receive regular safety briefings through PEP talks.</li> <li>• Only drivers possessing a valid driving license are permitted to operate trucks.</li> </ul> A dedicated road has been constructed by NTPC within the mine lease boundary for the purpose of coal transportation from KDCMP to

S. No.	Suggestion/ Comment/ View/ Objection	NML's response
		CBCMP.
8	<p>That the Chatti Bariatu coal mining project of NTPC is violating the rules and conditions of the Environment Protection Act 1986 and the Mine Safety Act 1952 and is forcibly mining near the habitat of the endangered human tribe Birhor community in the year 2022 despite their objections without displacing them under FRA 2006.</p> <p>Upon this being set up, the National Human Rights Commission in Case no 427/34/11/2024 dated 08/04/2025 had stated and directed "The Joint Committee has observed that the houses of the Birhors are being destroyed due to blasting work. They have also observed that till the time the Birhors are not relocated, the mining work is not advisable. The Commission has considered the report. Admittedly, mining work is being carried out by NTPC despite the fact that the same is not advisable. The report of the Joint Committee corroborates the same. The facts of the case and the report of the Joint Inspection Committee constraints the Commission to believe that the NTPC and the District Administration have given priority to the mining activity over the lives and wellbeing of the Birhor tribals. Despite problems and loss of lives, the mining seems to continue unabated in the Chatti Bariyatu Mining Project. The right to life of the Birhore Community appears to be under threat. Therefore, the CMD, National Thermal Power Corporation is directed to inform the Commission within four weeks the reasons for continued mining activity in the Chatti Bariyatu Mining Project despite the fact that a duly constituted Committee has, after identifying health and other issues troubling the Birhors, advised putting on hold the mining activity till the Birhors are relocated. He shall also inform the Commission whether the Social Impact Assessment was carried out prior to initiation of land acquisition process. If yes, the details be also sent to the Commission.</p> <p>The Deputy Commissioner, Hazaribagh is directed to inform the Commission within four weeks about the action taken by the District Administration on the findings and observation of the Joint Committee.</p>	<p>The issue concerning the Birhor Colony is unrelated to the Kerandari Coal Mining Project.</p>
9	<p>That in view of the earlier notice, the National Commission for Scheduled Tribes has issued a reminder dated 23rd April 2025 to (1) Additional Chief Secretary, Health, Medical Department, (2) Principal Secretary, Scheduled Tribe Welfare Department, (3) Secretary, Forest, Environment and Climate Change Department, (4) Secretary, Mines and Geology Department, (5) Director General of Police, Jharkhand, as NTPC's Chatti Bariatu Coal Mining Project has started mining forcibly in the year 2022 near the residence of the endangered tribe Birhor community, without displacing them under</p>	<p>The issue concerning the Birhor Colony is unrelated to the Kerandari Coal Mining Project.</p>

S. No.	Suggestion/ Comment/ View/ Objection	NML's response
	FRA 2006, in violation of the rules and conditions of the Environment Protection Act 1986 and the Mines Safety Act 1952.	
10	That NTPC's Chatti Bariatu coal mining project was in violation of the rules/conditions of the Environment Protection Act 1986 and the Mine Safety Act 1952 and was carrying out mining and coal transplantation by road near the residence of the endangered human tribe Birhor community in the year 2022. Notice was also given by its learned advocate Mr. Naveen Kumar Singh (Jharkhand High Court) on 07/05/2024. But no action was taken.	The issue concerning the Birhor Colony is unrelated to the Kerandari Coal Mining Project.

**27.12.8: Compliance Status of EC conditions reported as Non-Conformities in EC Amendment dated 30.10.2024:**

S. No.	Stipulated Conditions		Compliance Status	Timeline	Financial Implication
	Non-conformities reported in the RO report	Timeline	Being Complied.	March 2029	Rs 25 Crores
1.	Proposed route for diversion of Baldeori nala	Nala Diversion <ul style="list-style-type: none"> <li>Start – Apr'26</li> <li>Completion – Mar'29</li> <li>Plantation – June'29</li> </ul>	<ul style="list-style-type: none"> <li>Approval obtained from WRD.</li> <li>Mining activities started in Apr'23</li> <li>Diversion of Baldeori Nala is required after 6<sup>th</sup> year of mining.</li> <li>Nala diversion and construction of embankment shall be started in Apr'26 and shall be completed before Mar'29.</li> <li>Plantation shall be done during the monsoon season of 2029.</li> </ul>		
2.	Rainwater harvesting structures construction	Dec'24	Complied. Rainwater Harvesting Structure is constructed at the project site building.	Completed	Rs 15.34 Lakh
3.	Provision of STP	Sep'25	Complied STP of 50 KLD has been constructed at the site and STP of 250 KLD is under progress at the project township.	Completed	Rs. 15.22 lakh

4 & 5.	Wildlife Conservation Plan and Site Specific Wildlife Management Plan	Under implementation	<p>Complied.</p> <p>For conservation of the flora and fauna found in the study area. A Wildlife conservation plan has been prepared which has been approved by Chief Wildlife Warden, GoJH vide office order no. 40 Dated 11.10.2021.</p> <p>For implementation of site-specific wildlife management plan prepared in line with IWLMP a total amount Rs. 9,21,21,100.00 was deposited in the ad-hoc CAMPA account vide ref. No. UBINH20042807228 dated 12.02.2020 against the demand letter received from DFO, Hazaribagh West Division &amp; Chatra South Division vide letter no. 405 dated 28.01.2020 &amp; Letter no. 268 dated 29.01.2020. Further, DFO vide letter no. 3555 dated 14.10.2020 demanded for deposition of differential amount of Rs 15,54,83,300.00 in ad-hoc CAMPA account. The amount demanded was deposited in the ad-hoc CAMPA account vide payment Ref No. UBINJ20351652481 for 10,00,00,000.00 &amp; UBINJ20351653951 for 5,54,83,300.00 dtd. 16.12.2020</p>	Completed	Rs. 24.76 Lakhs
6.	Use of CNG/LNG/e-vehicles for transportation of coal shall be explored	E-vehicles at Coal Mining Head Quarters to be deployed by August 2025	<p>Being Complied.</p> <p>7 e-vehicles have been deployed for the movement of the staff. The procurement of 3 more e-vehicles is under the tendering process. Further, to reduce carbon footprint bus service (replacing 10 SUVs) has been started for movement of the staff. Also, one e-vehicle (truck) was deployed in Mine on trial basis.</p>	June 2025	Rs 72Lakh

7.	Impact of air pollution generated by its activities on the forest up to a distance of about 10 K.M. through an institution	KDCMP has approached CSIRCIMFR through mail to conduct the forest study. The proposal from CSIR CIMFR is awaited. (Jan 2025)	Being Complied. The work has been awarded to M/s Everain Global Pvt. Ltd., and the draft report has been received.	Study Under Progress and to be Completed by June 2025	Rs 20 Lakhs
8.	Time bound comprehensive plantation plan has been received. However, the plantation plan is yet to be implemented.	Throughout the mining and after end of mining	Being Complied Planation plan is under implementation, and it is an ongoing process. Last monsoon season 3800 no. of plants has been planted with gabion fencing. Plantation Shall be done throughout the mining and after the end of the mining. This monsoon season 2025, 5000 plantation of local species shall be done.	Upcoming Monsoon season 2025	Rs 8.01 Lakh
9.	The construction of closed conveyors to the railway siding and to linked Barh STPS and CHP are under progress. The proponent committed that the construction of closed conveyors shall be completed by December, 2025.	30/06/ 2025	Being Complied. The work of the closed conveyors to the railway siding is under progress. Overall, 78% of the conveyor work has been completed till.	June 2026	Rs. 620 Crores
10.	Work for the construction of railway siding is under progress. The proponent committed that the construction of railway siding shall be completed by March, 2027. Further the proponent submitted that the construction of alternate road is under progress	March 2027	Agreed to comply. During the recent discussion with ECR, Hajipur it is informed that DPR finalization is under process and likely to be finalized within a month. Considering the Land Acquisition, Forest Clearance and other construction activities, it will take around 30 months from the date of DPR approval on best effort basis. Accordingly, the work is expected to be completed by March 2028.	March 2028	Rs. 444 Crores

11.	On perusal of the action taken report received in this Office, it is evident that the R&R plan has not been implemented completely	Progressively	Being Complied. The R&R plan has been prepared in line with Jharkhand & National R&R Policy and approved by the Govt of Jharkhand and company board. Compensation for landless project affected families is being paid as per the approved R&R policy plan. The plan which covers the stipulated conditions is under implementation. A separate Corpus fund of Rs 5 crores will be created in future after displacement and settlement of the PAPs in R&R colony for maintenance of the R&R colony. However, till date no consent has been received from the villages for R&R colony. Annuity is already being provided as per the existing R&R policy to the affected persons as per their eligibility. Alternate livelihood schemes shall be implemented for the persons not being absorbed for employment.	Under implementation as it is a Continuous Process	
12.	Under implementation as it is a Continuous Process	Apr' 2025	Complied The land use plan is being prepared for three years basis latest plan of 2025-28 has been prepared.	Completed	Rs 88000
13.	Eight nos. of ambient air quality monitoring stations (four in core and four in buffer zone)	Being monitored	Complied. Eight Ambient air quality monitoring stations have been established (four in core zone & four in buffer zone) for monitoring PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> . Location of the stations has been decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board (Approved Plan Enclosed). The data is being collected and analysed by M/s. BIOCRAT ENVIRONMENTAL SERVICES, Ranchi, Jharkhand, a laboratory	Completed	Rs 7.04 Lakh

			having NABL accreditation and recognized by Jharkhand State Pollution Control Board.		
14.	Additional 6 nos. of fog cannons will be deployed.	By Nov' 2024	Complied. An additional six nos. of fog cannons have been deployed.	Completed	Rs 24 Lakhs

**27.12.9: Details of lease area:** The EC granted vide letter dated 31.03.2010 was on project area 1173 Ha. However, PP had LoI only for 654 Ha. Accordingly, while granting EC Amendment vide letter dated 30.10.2024, MoEF&CC restricted the EC for 654 Ha of ML area for which PP had valid LoI. PP obtained NoC for another 130 Ha from Government of Jharkhand vide letter dated 18.06.2025. In view of this, ML area for the instant proposal is 784 Ha.

**27.12.10: Details of pending Legal Issues/ Violation:** There are certain court cases pending on the project related to R&R issues, land issues etc and PP submitted the details of the same. However, PP reported that there is no legal issue/ violation w.r.t i) Environment (Protection) Act, ii) Air (P&CP) Act, Water (P&CP) Act, Van (Sanrakshan Evam Samvardhan) Adhiniyam 1980, Wildlife Protection Act 1972, MMDR Act, Factories Act.

#### Observations and deliberation of the Committee:

##### 27.12.11: The EAC noted the following:

14. MoEF&CC has granted EC for Kerandari Opencast Coal Mining Project of M/s NTPC Limited vide letter no. J-11015/133/2007-IA.II(M), dated 31.03.2010 for capacity of 6 MTPA in an area of 1173 Ha. Out of 1173 Ha, 243.32 Ha of forestland involved in the said project and stage – II FC is accorded on it vide letter dated 28.08.2019. Later this EC was revalidated/ transferred vide letter dated 28.10.2015 (since it was de-allocated vide the Judgement of Hon'ble Supreme Court and then further re-allocated vide allotment order MOC to M/s NTPC Limited). Further, the timeline to complete work of conveyor and CHP by October, 2024 and railway siding by March, 2025 was accorded vide letter dated 05.02.2024 and later this EC was transferred to M/s NTPC Mining Limited vide letter dated 08.03.2024. The same was amended vide letter dated 30.10.2024 for allowing extension in road transportation.

15. The above project is partly implemented and is already under operation.

16. The instant proposal is submitted for seeking amendment in specific condition no. 2A (xi) and 2A (xiv) of EC letter dated 31.03.2010, further amended by EC letter dated 30.10.2024.

17. It is observed that, as per Specific Condition no. 2A (xi) of EC dated 31.03.2010 stipulated that the raw coal from CHP shall be transported by closed conveyors to the railway siding proposed at village Khadamdari and thereafter by rail to the linked Tanda/Barh STPP. The conveyor-cum-rail corridor consisting of a stretch of 13.1 km of rail and 10.5 km of overhead closed conveyors and extend upto unloading part at the railway siding with Silo Loading facilities and from there to the linked Barh STPS/ Tanda by rail. There shall be no road transportation of coal.

Ministry granted further amendment in the said condition by letter dated 30.10.2024, wherein, it stipulated that, *“Raw coal from mine end shall be transported by road through covered tippers/ dumpers to Shivpur, Bachra, Katkamsandi, Kusmahi, Biratoli & Tori railway sidings till 30.06.2025. From these railway sidings coal will be further transported to Barh STPP/Tanda STPS through rail only. Besides, coal from mine end to North Karampura STPP (over a distance of 26.3 km) by road till 30.06.2025. Conveyor belt shall also be completed by 30.06.2025.”*

18. Now, through instant proposal PP has sought further extension in timeline to continue to transport coal by road to Shivpur, Bachra, Katkamsandi, Kusmahi, Biratoli and Tori railway sidings for supply of coal to Barh STPP/ Tanda STPS and transport of coal by road to NKSTPP till March 2028. Further, PP also sought time extension for construction of closed conveyor system by June 2026. However, considering the completion of pipe conveyor and connecting road between TP-3 of conveyor and JCRL, the road transportation to six railway sidings will be restricted to 31/12/2026 only. From 01/01/2027 onwards, the entire coal from Chatti Bariatu and the adjacent Kerandari coal mines of M/s NML is proposed to be transported through pipe conveyor from TP1 to TP3, thereafter by road from TP3 to JCRL Simariya railway siding and further by rail to the end user. Besides, Gopda railway siding is expected to be completed by March 2028 and thereafter no road transportation of coal will be done. The entire coal production from Chatti Bariatu and the adjacent Kerandari coal mines of M/s NML will be transported by pipe conveyor from TP1 to TP3 and thereafter by rail from Gopda railway siding to the end user.
19. Another amendment sought by PP is in Specific Condition no. 2A (xiv) of EC letter dated 31.03.2010, wherein it was stipulated that, company's Railway siding at village Khadambarl shall be established within 3 years from date of grant of environmental clearance. As per the latest amendment granted by the Ministry, it was stipulated that, *“The company shall use the JCRL railway siding from July 2025.”*
20. Committee deliberated on the reasons for delay in construction of closed conveyor and the railway line connecting conveyor belt and observed that due to COVID – 19 pandemic, various law and order situation in that particular area and re-alignment of conveyor due to difference in the rate of land compensation provided by State Govt to landowners of different districts (Hazaribagh & Chatra), there has been delay in construction of closed conveyor and now the same is expected to be completed by June 2026. Further, there is delay in construction of railway line as due to non – availability of forestry clearance which was part of previously approved DPR has to be dropped, an alternate railway alignment for the Shivpur – Hazaribagh line viz Shivpur – Kathautia was finalized, and survey work was started by Railways in 2022. DPR for the revised alignment is under finalization by Railways. In recent discussion with Eastern Central Railways, it was informed that DPR finalization is under

process. Considering the Land Acquisition, Forest Clearance and other construction activities, it may take around 36 months from the date of DPR approval. Hence, the work is expected to be completed by March 2028 on best effort basis.

21. Committee further deliberated on the status of JCRL railway siding and observed that, JCRL informed that based on the current progress, the expected date for completion of JCRL Siding near Simariya is 30.06.2026.
22. Committee during the deliberation observed that, conveyor belt from TP1 to TP3 is expected to be completed by June 2026. However, the same will take some more time to commission and become operational. At the same time, the JCRL Siding Simaria, which is expected to be completed by June 2026 might take some more time to complete due to local law and order situation in that region.
23. Committee deliberated on the ongoing and proposed coal evacuation system as discussed in para 27.12.5 above and opined that the PP shall acquire all necessary permissions and required measures to construct the road of approx. 8 km from TP3 to state highway for transportation of coal from 01.01.2027 onwards.
24. Committee opined that, PP shall immediately start with the required studies, bidding process and obtain necessary permissions from the competent authority in order to construct a road from the end of TP3 to JCRL Siding Simaria.
25. During the detailed deliberation Committee opined that PP shall be allowed to complete the construction of Gopda railway siding by March 2028 and the pipe conveyor by June 2026. For the time being, the PP shall be allowed to transport coal by road to 6 different Shivpur (28.8 km), Bachra (40.5 km), Katkamsandi (97.6 km), Kusmahi (83.3km), Biratoli (94.6 km) & Tori (97.9 km) railway Sidings for supply of coal to Barh STPS/ Tanda STPS by rail and to transport the coal by road from mine end to NKSTPP (26.3 km).  
Committee further opined that, PP shall regularly follow up with JCRL in order to ensure the commissioning of JCRL siding Simaria by December 2026, so that 01.01.2027 onwards, the JCRL siding Simaria can be used for coal transportation from Kerandari Coal Mine and Chatti Bariatu Coal Mine of M/s NML, as this will significantly reduce the distance of road for transportation of coal.
26. Committee further observed that, PP has obtained NoC from the Government of Jharkhand for 130 Ha in addition to the already existing ML area of 654 Ha.
27. Committee further deliberated on the protection measures being undertaken by the PP during coal transportation of coal and observed that, PP is complying with all the protection measures as previously stipulated. Committee opined that PP shall continue with the same and shall increase the protection measures as and when required.

#### **Recommendations of the Committee:**

**27.12.12:** After deliberations, the Committee **recommended** the proposal for amendment in EC granted vide file no. J-11015/133/2007-IA.II(M) dated 31.03.2010 & its amendment dated 30.10.2024, as detailed below subject to stipulation of following additional specific

conditions. Other terms and conditions prescribed in EC dated 31.03.2010 and its subsequent amendment shall remain unchanged:

Condition No. as per EC dated 31.03.2010 & its subsequent amendment	Description as per approved EC	Amendment sought in EC	Justification/ Remarks
Specific Condition No.- 2A (xi)	<p><b><u>As per EC dated 31.03.2010:</u></b></p> <p>Raw coal from CHP shall be transported by closed conveyors to the railway siding proposed at village Khadamdari and thereafter by rail to the linked Tanda/ Barh STPP. The conveyor-cum-rail corridor consisting of a stretch of 13.1 km of rail and 10.5 km of overhead closed conveyors and extend upto unloading part of the railway siding with Silo Loading facilities and from there to the linked Barh STPP/ Tanda by rail. There shall be no road transportation of coal.</p> <p><b><u>As per EC amendment dated 30.10.2024:</u></b></p> <p>Raw coal from mine end shall be transported by road through covered tippers/ dumpers to Shivpur, Bachra, Katkamsandi, Kusmahi, Biratoli &amp; Tori railway sidings till 30.06.2025. From these railway sidings coal will be further transported to Barh STPP/ Tanda STPS through rail only. Besides, coal from mine end to North Karampura STPP (over a distance of 26.3 km) by road till 30.06.2025. Conveyor belt shall also be completed by 30.06.2025.</p>	<p>Change in mode of transportation of coal by road through covered tippers/dumpers from mine to Shivpur, Bachra, Katkamsandi, Kushmahi, Bira Toli &amp; Tori railway sidings for supply of coal to Tanda STPP and transport of coal by road to NKSTPP till 31.03.2028</p>	<p><b>Partially agreed</b></p> <p>With regard to the changes in specific condition 2A(xi), Committee is of the opinion to amend specific condition 2A(xi) as follows:</p> <p><b><i>“The coal transportation system shall be as follows:</i></b></p> <p><b><i>d. PP shall be allowed to transport coal from the said mine to the Shivpur, Bachra, Katkamsandi, Kusmahi, Biratoli &amp; Tori railway sidings till 31.12.2026 by road through covered tippers/ dumpers. From these railway sidings coal will be further transported to Barh STPP through rail only. Besides, coal from mine end to North Karampura STPP (over a distance of 24 km) by road till 31.12.2026. Meanwhile, project proponent shall ensure the construction and operation of pipe conveyor as well as connecting road between TP-3 of conveyor and JCRL railway siding at Simariya.</i></b></p> <p><b><i>e. Project proponent shall transport entire coal produced from the said mine through pipe conveyor from TP1 to TP3 and then by road from TP3 to JCRL railway siding Simariya from 01.01.2027 onwards.</i></b></p> <p><b><i>f. Project proponent shall establish Gopda railway siding by March 2028 and no road transportation of coal shall be allowed after 31.03.2028.</i></b></p>

Condition No. as per EC dated 31.03.2010 & its subsequent amendment	Description as per approved EC	Amendment sought in EC	Justification/ Remarks
Specific Condition No.- 2A (xiv)	<p><b><u>As per EC dated 31.03.2010:</u></b></p> <p>Company's Railway Siding at village Khadambari shall be established within 3 years from date of grant of Environmental Clearance.</p> <p>The pp is permitted till 30.06.2025 to use Service road/State Highways for transportation of coal to the railway siding.</p> <p><b><u>As per EC amendment dated 30.10.2024:</u></b></p> <p>As proposed, PP shall complete the balance work of conveyor and CHP by 30.06.2025. The company shall use the JCRL railway siding from July 2025</p>	<p>The Company's Railway Siding shall be established by <b>March 2028</b></p>	<p><b>Agreed</b></p> <p>With regard to the changes in specific condition 2A(xiv), Committee is of the opinion to amend specific condition 2A(xiv) as follows:</p> <p><b><i>"Company's Gopda railway siding shall be established and become operational by March 2028."</i></b></p>

#### Additional Specific Conditions:

1. Proponent shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.
2. Three tier plantation with native species of saplings of not less than 2 meter height, shall be developed on both the sides of the coal transportation road proposed to be constructed from TP3 connecting to State Highway towards JCRL railway siding Simariya.
3. No OB dumping shall be done outside the 784 Ha of ML area.

**ANNEXURE-I**

**GENERIC TOR FOR AN OPEN CAST COAL MINE PROJECT**

- (i) An EIA-EMP Report shall be prepared for MTPA rated capacity in an ML/project area of.....ha based on the generic structure specified in Appendix III of the EIA Notification, 2006.
- (ii) An EIA-EMP Report would be prepared for..... MTPA rated capacity to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data collection can be for any season (three months) except monsoon.
- (iii) A toposheet specifying locations of the State, District and Project site should be provided.
- (iv) A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries/mines and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given.
- (v) Land use map (1: 50,000 scale) based on a recent satellite imagery of the study area may also be provided with explanatory note on the land use.
- (vi) Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
- (vii) A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.
- (viii) A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channeling of the water courses, etc., approach roads, major haul roads, etc should be indicated.
- (ix) In case of any proposed diversion of nallah/canal/river, the proposed route of diversion/modification of drainage and their realignment, construction of embankment etc. should also be shown on the map as per the approval of Irrigation and flood control Department of the concerned state.
- (x) Similarly, if the project involves diversion of any road/railway line passing through the ML/project area, the proposed route of diversion and its realignment should be shown in the map along with the status of the approval of the competent authority.
- (xi) Break up of lease/project area as per different land uses and their stage of acquisition should be provided.

LAND USE DETAILS FOR OPEN CAST PROJECT should be given as per the following table:

Sl. No.	Land use	Within ML area (ha)	Outside ML area (ha)	Total
1.	Agricultural land			
2.	Forestland			
3.	Wasteland			
4.	Grazingland			
5.	Surfacewaterbodies			
6.	Settlements			
7.	Others(specify)			
	TOTAL			

- (xii) Break-up of lease/project area as per mining plan should be provided.
- (xiii) Impact of changes in the land use due to the project if the land is predominantly agricultural land/forest land/grazing land, should be provided.
- (xiv) One-season (other than monsoon) primary baseline data on environmental quality - air (PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>x</sub>, NO<sub>x</sub> and heavy metals such as Hg, Pb, Cr,As,etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided.
- (xv) Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non- polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.
- (xvi) Study on the existing flora and fauna in the study area (10km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.
- (xvii) Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and sections should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.

- (xviii) Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.
- (xix) Impact of mining on hydrology, modification of natural drainage, diversion and channeling of the existing rivers/water courses flowing through the ML and adjoining the lease/project and the impact on the existing users and impacts of mining operations thereon.
- (xx) Detailed water balance should be provided. The break-up of water requirement for the various mine operations should be given separately.
- (xxi) Source of water for use in mine, sanction of the Competent Authority in the State Govt and impacts vis-à-vis the competing users in the upstream and downstream of the project site should be given.
- (xxii) Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
- (xxiii) Impact of blasting, noise and vibrations should be given.
- (xxiv) Impacts of mining on the AAQ and predictions based on modeling using the ISCST-3 (Revised) or latest model should be provided.
- (xxv) Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
- (xxvi) Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
- (xxvii) Details of waste OB and topsoil generated as per the approved calendar programme, and their management shown in figures as well explanatory notes tables giving progressive development and mine closure plan, green belt development, backfilling programme and conceptual post mining land use should be given. OB dump heights and terracing based on slope stability studies with a max of 28° angle as the ultimate slope should be given. Sections of final dumps (both longitudinal and cross section) with relation to the adjacent area should be shown.
- (xxviii) Efforts be made for maximizing progressive internal dumping of O.B., sequential mining, external dump on coal bearing area and later rehandling into the mine void. --to reduce land degradation.
- (xxix) Impact of change in land use due to mining operations and plan for restoration of the mined area to its original land use should be provided.
- (xxx) Progressive Green belt and ecological restoration /afforestation plan (both in text, figures and in the tabular form as per the format of MOEFCC given below) and selection of species (native) based on original survey/land-use should be given.

Table 1: Stage-wise Land use and Reclamation Area (ha)

S.N.	Land use Category	Present (1 <sup>st</sup> Year)	5 <sup>th</sup> Year	10 <sup>th</sup> Year	20 <sup>th</sup> Year	24 <sup>th</sup> Year (end of mine life)*

1.	Backfilled Area Reclaimed with plantation)					
2.	Excavated Area (not reclaimed)/void					
3.	External OB dump Reclaimed with plantation)					
4.	Reclaimed Top soil dump					
5.	Green Built Area					
6.	Undisturbed area (brought Under plantation)					
7.	Roads (avenue plantation)					
8.	Area around buildings and Infrastructure					
	TOTAL					

\*As a representative example

Table2: Stage Wise Cumulative Plantation

S.No.	YEAR*	Green Belt		External Dump		Backfilled Area		Others (Undisturbed Area/etc)		TOTAL	
1.	1 <sup>st</sup> year										
2.	3 <sup>rd</sup> year										
3.	5 <sup>th</sup> year										
4.	10 <sup>th</sup> year										
5.	15 <sup>th</sup> year										
6.	20 <sup>th</sup> year										
7.	25 <sup>th</sup> year										
8.	30 <sup>th</sup> year										
9.	34 <sup>th</sup> year (end of minelife)										
10.	34-37 <sup>th</sup> Year (Post-mining)										

\*As a representative example

(xxxi) Conceptual Final Mine Closure Plan and post-mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.

**Table3:**Post-Mining Land use Pattern of ML/Project Area (ha)

S.N.	Land useduring Mining	LandUse(ha)				
		Plantation	Water Body	Public Use	Undisturbed	TOTAL
1.	External OB Dump					
2.	Topsoil Dump					
3.	Excavation					
4.	Roads					
5.	Built up area					
6.	Green Belt					
7.	Undisturbed Area					
	TOTAL					

- (xxxii) Flow chart of water balance should be provided. Treatment of effluents from workshop, township, domestic waste water, mine water discharge, etc. should be provided. Details of STP in colony and ETP in mine should be given. Recycling of water to the maximum possible extent should be done.
- (xxxiii) Occupational health issues. Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower in the mine should be given.
- (xxxiv) Risk Assessment and Disaster Preparedness and Management Plan should be provided.
- (xxxv) Integration of the Env. Management Plan with measures for minimizing use of natural resources-water, land, energy, etc. should be carried out.
- (xxxvi) Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
- (xxxvii) Details of R&R. Detailed project specific R&R Plan with data on the existing socio-economic status of the population (including tribals, SC/ ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/ employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.
- (xxxviii) CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.
- (xxxix) Corporate Environment Responsibility:
- The Company must have a well-laid down Environment Policy approved by the Board of Directors.
  - The Environment Policy must prescribe for standard operating process/ procedures to bring into focus any infringements/ deviation/violation of the environmental or forest norms/ conditions.
  - The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
  - To have proper checks and balances, the company should have a well laid-down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.
- (xl) Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/ minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the action proposed with

budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.

- (xl) Inbuilt mechanism of self-monitoring of compliance of environmental regulations should be indicated.
- (xli) Status of any litigations/court cases filed/ pending on the project should be provided.
- (xliii) Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, Sand heavy metals including levels of Hg, As, Pb, Cr etc.
- (xliv) Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept.(if req.), etc. wherever applicable.

FOREST CLEARANCE: Details on the Forest Clearance should be given as per the format given:

TOTAL ML/ PROJECT AREA(Ha)	Total Forestland (Ha)	Date of FC	Extent of forest land	Balance area for which FC is yet to be obtained	Status of Appl for. Diversion of forestland
		If more than, provide details of Each FC			

**Annexure – II**

**GENERIC TORs FOR AN UNDER GROUND COAL MINE PROJECT**

- (i) An EIA-EMP Report shall be prepared for MTPA rated capacity in an ML/project area of .....ha based on the generic structure specified in Appendix-III of the EIA Notification, 2006.
- (ii) An EIA-EMP Report would be prepared for MTPA rated capacity to cover the impacts and environment management plan for the project specific activities on the environment of the region, and the environmental quality encompassing air, water, land, biotic community, etc. through collection of data and information, generation of data on impacts including prediction modeling for MTPA of coal production based on approved project/Mining Plan for MTPA.
- (iii) Baseline data collection can be for any season (three months) except monsoon.
- (iv) A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating the major topographical features such as the land use, surface drainage pattern including rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries/mines and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given.
- (v) Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
- (vi) A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.
- (vii) A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channelling of the water courses, etc., approach roads, major haul roads, etc should be indicated.
- (viii) Original land use (agricultural land/forestland/grazing land/wasteland/water bodies) of the area should be provided as per the tables given below. Impacts of project, if any on the land use, in particular, agricultural land/forestland/grazing land/water bodies falling within the lease/project and acquired for mining operations should be analyzed. Extent of area under surface rights and under mining rights should be specified.

S. N	ML/Project Land use	Area under Surface Rights (ha)	Area Under Mining Rights (ha)	Area under Both (ha)
1.	Agricultural land			
2.	Forest Land			
3.	Grazing Land			
4.	Settlements			

5.	Others(specify)			
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Area under Surface Rights

S.N.	Details	Area(ha)
1.	Buildings	
2.	Infrastructure	
3.	Roads	
4.	Others(specify)	
	TOTAL	

- (ix) Study on the existing flora and fauna in the study area (10 km) should be carried out by an institution of relevant discipline. The list of flora and fauna duly authenticated separately for the core and study area and a statement clearly specifying whether the study area forms a part of the migratory corridor of any endangered fauna should be given. If the study area has endangered flora and fauna, or if the area is occasionally visited or used as a habitat by Schedule-I species, or if the project falls within 15 km of an ecologically sensitive area, or used as a migratory corridor then a Comprehensive Conservation Plan along with the appropriate budgetary provision should be prepared and submitted with EIA-EMP Report; and comments/observation from the CWLW of the State Govt. should also be obtained and furnished.
- (x) Details of mineral reserves, geological status of the study area and the seams to be worked, ultimate working depth and progressive stage-wise working scheme until the end of mine life should be provided on the basis of the approved rated capacity and calendar plans of production from the approved Mining Plan. Geological maps and section should be included. The Progressive mine development and Conceptual Final Mine Closure Plan should also be shown in figures. Details of mine plan and mine closure plan approval of Competent Authority should be furnished for green field and expansion projects.
- (xi) Details of mining methods, technology, equipment to be used, etc., rationale for selection of specified technology and equipment proposed to be used vis-à-vis the potential impacts should be provided.
- (xii) Impact of mining on hydrology, modification of natural drainage, diversion and channelling of the existing rivers/water courses flowing through the ML and adjoining the lease/ project and the impact on the existing users and impacts of mining operations there on.
- (xiii) One-season (other than monsoon) primary base line data on environmental quality-air (PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>x</sub>, NO<sub>x</sub> and heavy metals such as Hg, Pb, Cr, As, etc), noise, water (surface and groundwater), soil - along with one-season met data coinciding with the same season for AAQ collection period should be provided.
- (xiv) Map (1: 50, 000 scale) of the study area (core and buffer zone) showing the location of various sampling stations superimposed with location of habitats, other industries/mines, polluting sources, should be provided. The number and location of the sampling stations in both core and buffer zones should be selected on the basis of size of lease/project area, the proposed impacts in the downwind (air)/downstream (surface water)/groundwater regime (based on flow). One station should be in the upwind/upstream/non-impact/non-polluting area as a control station. The monitoring should be as per CPCB guidelines and parameters for water testing for both ground water and surface water as per ISI standards and CPCB classification wherever applicable. Observed values should be provided along with the specified standards.

- (xv) Impact of mining and water abstraction from the mine on the hydrogeology and groundwater regime within the core zone and 10 km buffer zone including long-term monitoring measures should be provided. Details of rainwater harvesting and measures for recharge of groundwater should be reflected in case there is a declining trend of groundwater availability and/or if the area falls within dark/grey zone.
- (xvi) Study on subsidence including modeling for prediction, mitigation/prevention of subsidence, continuous monitoring measures, and safety issues should be carried out.
- (xvii) Detailed water balance should be provided. The breakup of water requirement as per different activities in the mining operations, including use of water for sand stowing should be given separately. Source of water for use in mine, sanction of the Competent Authority in the State Govt. and impacts vis-à-vis the competing users should be provided.
- (xviii) Impact of choice of mining method, technology, selected use of machinery and impact on air quality, mineral transportation, coal handling & storage/stockyard, etc, Impact of blasting, noise and vibrations should be provided.
- (xix) Impacts of mineral transportation within the mining area and outside the lease/project along with flow-chart indicating the specific areas generating fugitive emissions should be provided. Impacts of transportation, handling, transfer of mineral and waste on air quality, generation of effluents from workshop etc, management plan for maintenance of HEMM and other machinery/equipment should be given. Details of various facilities such as rest areas and canteen for workers and effluents/pollution load emanating from these activities should also be provided.
- (xx) Effort be made to reduce/eliminate road transport of coal inside and outside mine and for mechanized loading of coal through CHP/ Silo into wagons and trucks/tippers.
- (xxi) Details of various facilities to be provided to the workers in terms of parking, rest areas and canteen, and effluents/pollution load resulting from these activities should also be given.
- (xxii) The number and efficiency of mobile/static water sprinkling system along the main mineral transportation road inside the mine, approach roads to the mine/stockyard/siding, and also the frequency of their use in impacting air quality should be provided.
- (xxiii) Impacts of CHP, if any on air and water quality should be given. A flow chart showing water balance along with the details of zero discharge should be provided.
- (xxiv) Conceptual Final Mine Closure Plan and post mining land use and restoration of land/habitat to the pre- mining status should be provided. A Plan for the ecological restoration of the mined out area and post mining land use should be prepared with detailed cost provisions. Impact and management of wastes and issues of re-handling (wherever applicable) and backfilling and progressive mine closure and reclamation should be furnished.
- (xxv) Greenbelt development should be undertaken particularly around the transport route and CHP. Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower for the mine should be submitted.
- (xxvi) Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
- (xxvii) Details of R&R. Detailed project specific R&R Plan with data on the existing socio-economic status of the population (including tribals, SC/ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.
- (xxviii) CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.

**(xxix) Corporate Environment Responsibility:**

- a) The Company must have a well laid down Environment Policy approved by the Board of Directors.
- b) The Environment Policy must prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
- c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions must be furnished.
- d) To have proper checks and balances, the company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

(xxx) Details on Public Hearing should cover the information relating to notices issued in the newspaper, proceedings/minutes of Public Hearing, the points raised by the general public and commitments made by the proponent and the action proposed with budgets in suitable time frame. These details should be presented in a tabular form. If the Public Hearing is in the regional language, an authenticated English Translation of the same should be provided.

(xxxi) In built mechanism of self-monitoring of compliance of environmental regulations should be indicated.

(xxxii) Status of any litigations/ court cases filed/pending on the project should be provided.

(xxxiii) Submission of sample test analysis of Characteristics of coal: This should include details on grade of coal and other characteristics such as ash content, S and heavy metals including levels of Hg, As, Pb, Cr etc.

(xxxiv) Copy of clearances/approvals such as Forestry clearances, Mining Plan Approval, mine closer plan approval. NOC from Flood and Irrigation Dept. (if req.), etc. wherever applicable.

Details on the Forest Clearance should be given as per the format given:

Total ML /Project Area (ha)	Total Forest Land(ha)	Date of FC	Extent of Forest Land	Balance area For which FC is yet to be obtained	Status of appl. For diversion of forest land
		If more than one provide details of Each FC			

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**Annexure - III**

**LIST OF PARTICIPANTS OF EAC (COAL) IN 27<sup>TH</sup> MEETING HELD ON 18-19<sup>TH</sup> JUNE 2025, THROUGH PHYSICAL MODE**

<b>S. No.</b>	<b>Name &amp; Address</b>	<b>Role</b>	<b>18.06.2025</b>	<b>19.06.2025</b>
1.	Shri Inder Pal Singh Matharu, IFS (Retd.)	Chairman	Present	Present
2.	Shri Lalit Kapur	Member	Present	Present
3.	Dr. Umesh Jagannathrao Kahalekar	Member	Present	Present
4.	Dr. Santosh Kumar Hampannavar	Member	Present	Present
5.	Shri Savalge Chandrasekhar	Member	Present	Present
6.	Shri K. B. Biswas	Member	Present	Present
7.	Prof. Shyam Shanker Singh	Member	Present	Present
8.	Dr. Vinod Agrawal	Member	Present	Present
9.	Shri Prasoon Gargava, Scientist - F	Representative of Central Pollution Control Board	Absent	Absent
10.	Shri Mahi Pal Singh, Chief Engineer	Representative of Central Electricity Authority (CEA)	Present	Present
11.	Shri Harmeet Sahaney	Representative of Indian Meteorological Department (IMD)	Absent	Absent
12.	Prof. R M Bhattacharjee	Representative of IIT/ISM Dhanbad	Present	Present
13.	Shri Sundar Ramanathan	Scientist 'F' & Member Secretary	Present	Present
<b>MoEF&amp;CC</b>				
1.	Dr. Rajesh Prasad Rastogi	Scientist 'D'	Present	Present

**Approval of the Chairman**

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**Re: MoM of 27th EAC (Coal mining sector) meeting held on 18-19th June, 2025**

2 emails

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**Inderpal Singh Matharu** <matharu0204@gmail.com >

Fri, 27 Jun 2025 4:02:26 PM +0530

To "RAJESH PRASAD RASTOGI" <rp.rastogi@gov.in>

Dear Rastogi ji,

I have gone through the final MoM of 27th EAC (Coal mining sector) meeting held on 18-19th June, 2025. All the changes you have incorporated which were added in zero draft of said MoM., Hence I approve it.

Sincerely yours

Inder Pal Singh Matharu

Chairman

Expert Appraisal Committee for Coal Mining and thermal Power

MoEF&CC, GOI

On Fri, Jun 27, 2025 at 3:47 PM RAJESH PRASAD RASTOGI <rp.rastogi@gov.in> wrote:

Respected sir,

Please find enclosed herewith the final MoM of 27th EAC (Coal mining sector) meeting held on 18-19th June, 2025 for your kind approval please. All changes have been incorporated as suggested.

With Regards

Dr. Rajesh P. Rastogi

Scientist-D

Coal & Thermal Sector

MoEFCC, New Delhi