



Government of India  
Ministry of Environment, Forest and Climate Change  
IA Division  
(Coal Mining)  
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Minutes of AGENDA FOR 36TH MEETING OF EXPERT APPRAISAL COMMITTEE (COAL MINING SECTOR), SCHEDULED TO BE HELD ON 08TH DECEMBER Date: 22/12/2025 2025, THROUGH VIRTUAL MODE meeting Coal Mining held from 08/12/2025 to 08/12/2025

MoM ID:	EC/MOM/EAC/542253/11/2025		
Agenda ID:	EC/AGENDA/EAC/542253/11/2025		
Meeting Venue:	N/A		
Meeting Mode:	Virtual		
Date & Time:			
08/12/2025	10:00 AM	05:00 PM	

#### 1. Opening remarks

**SUMMARY RECORD OF THE THIRTY SIXTH (36<sup>TH</sup>) MEETING OF EXPERT APPRAISAL COMMITTEE (EAC) HELD ON 8<sup>TH</sup> DECEMBER 2025 FOR ENVIRONMENT APPRAISAL OF COAL MINING SECTOR PROJECTS THROUGH VIRTUAL MODE.**

**8<sup>TH</sup> DECEMBER, 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 - II.**

**[The main PDF of MoM is enclosed at Page no. 129 - 250]**

#### 2. Confirmation of the minutes of previous meeting

Confirmation of the minutes of the 35<sup>th</sup> meeting of the EAC (Coal): The minutes of the 35<sup>th</sup> meeting of the EAC (Coal) held on 8<sup>th</sup> December 2025 through virtual mode have been

confirmed by the EAC, along with the following corrections:

Minutes uploaded on PARIVESH	To be read as						
<p><b>Para 35.1.4:</b></p> <p><b>Mitigation measures being undertaken and further proposed:</b></p> <p><b>Details of existing control measures:</b></p> <ol style="list-style-type: none"> <li>1. At Banadag Railway Siding 30 nos. Permanent/fixed type high-capacity rain guns have been installed on both side of railway siding (north and south side) to minimize the dust generation.</li> <li>2. Dust suppression along the coal transport route is being controlled by 17 nos. of mobile water tankers of different capacity ranging from 10 KL to 18 KL.</li> <li>3. Boundary wall has been constructed on both side (i.e., North &amp; South Side) of Banadag Railway Siding along with permanent wind screen of height 20 ft.</li> <li>4. To avoid accidents at night, streetlamp posts have been installed through Department of Energy, Govt of Jharkhand along the transportation road.</li> <li>5. 100 nos. of solar lights have been installed along the coal transport route.</li> <li>6. Regular monitoring for Ambient Air and Noise quality is being done along the coal transport route.</li> <li>7. Continuous Ambient Air Quality Monitoring (CAAQMS) system has been installed in coal transport route (Sirkha village).</li> <li>8. Plantation has been carried out along the coal transport route. Till date 18417 nos. of plants have been planted.</li> <li>9. Transportation of coal is being done through only tarpaulin covered trucks.</li> <li>10. Only Trucks/Tippers with valid PUC certification &amp; fitness certificate are allowed.</li> <li>11. Safety boards are installed along the coal transportation route.</li> <li>12. Awareness program, safety talks, pep talks for the Tipper drivers &amp; local people is in practice.</li> <li>13. Facilities for rest/ stay/ hygiene/ sanitation/ for drivers has been provided at the mine site.</li> <li>14. Speed breaker on turnings and habitat area in order to ensure slow driving.</li> <li>15. Regular cleaning and maintenance of transport route.</li> <li>16. Trucks are following a "no horn, low speed" protocol while passing through village.</li> </ol>	<p><b>Para 35.1.4:</b></p> <p>-</p> <p><b>Mitigation measures being undertaken and further proposed:</b></p> <p><b>Details of existing control measures:</b></p> <ol style="list-style-type: none"> <li>1. Road sweeping machine will be deployed on coal transportation route which is already in use at Talaipalli Project.</li> <li>2. Around 7000 numbers of trees have been planted on both side of roads constructed by NTPC and is being maintained through state government PSU.</li> <li>3. Water Tankers will be deployed along transportation route for dust suppression.</li> <li>4. Permanent water sprinklers available at goods shed which shall be put in use.</li> <li>5. Wheel washing facility will be developed at railway siding.</li> <li>6. Regular monitoring for Ambient Air and Noise quality will be done along the coal transport route.</li> <li>7. Transportation of coal will be ensured through tarpaulin covered trucks only.</li> <li>8. Only Trucks/ Tippers with valid PUC certification &amp; fitness certificate will be allowed.</li> <li>9. Safety boards are installed along the coal transportation route.</li> <li>10. Awareness program, safety talks, pep talks for the Tipper drivers &amp; local people will be practice.</li> <li>11. Facilities for rest/ stay/ hygiene/ sanitation/ for drivers has been provided at the mine site.</li> <li>12. Speed breaker on turnings and habitat area in order to ensure slow driving.</li> <li>13. Trucks are following a "no horn, low speed" protocol while passing through village.</li> <li>14. Solar powered high mast installed at Teram village turning on transportation route.</li> <li>15. High mast installed on Kotrimal village and Raikera Village along the coal transport route.</li> <li>16. Traffic controllers will be deployed along the route through youth of villages falling along the route.</li> <li>17. Regular maintenance of roads is being done in consultation with state highway department.</li> </ol>						
<p><b>Para 35.1.10:</b></p> <table border="1"> <thead> <tr> <th>Para/</th> <th>Description</th> <th>Recommendations</th> </tr> </thead> </table>	Para/	Description	Recommendations	<p><b>Para 35.1.10:</b></p> <table border="1"> <thead> <tr> <th>Para/</th> <th>Description</th> <th>Recommendations</th> </tr> </thead> </table>	Para/	Description	Recommendations
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Conditions as per EC dated 02.01.2013	as per approved EC dated 02.01.2013	of EAC	Conditions as per EC dated 02.01.2013	as per approved EC dated 02.01.2013	of EAC
		<p>Agreed.</p> <p>With regard to the changes in the said para, Committee decided to modify it as follows:</p> <p>“.....The mine is captive to company's Lara Super Thermal Power Project (4000 MW) located at a distance of 60 km. However, the surplus coal after meeting the EUP requirement will be sold/ utilized as per the government directives and/ or in accordance with the Clause no. 8 of Allotment Agreement of Ministry of Coal dated 10.10.2025 and hence the surplus coal may be sold to the consumers as allowed by Ministry of coal from the pit head or nearest railway siding via road or road cum rail mode.....”</p>			<p>Agreed.</p> <p>With regard to the changes in the said para, Committee decided to modify it as follows:</p> <p>“.....The mine is captive to company's Lara Super Thermal Power Project (4000 MW) located at a distance of 60 km. However, the surplus coal after meeting the EUP requirement will be sold/ utilized as per the government directives and/ or in accordance with the Clause no. 8 of Allotment Agreement of Ministry of Coal dated 27.03.2015 and hence the surplus coal may be sold to the consumers as allowed by Ministry of coal from the pit head or nearest railway siding via road or road cum rail mode.....”</p>
		<p>Agreed.</p> <p>With regard to the changes in the said para, Committee decided to modify it as follows:</p> <p>“.... An estimated 56,727 TPD of coal would be transported through an MGR system of 180.54 ha of land upto Kotaraliya</p>			<p>Agreed.</p> <p>With regard to the changes in the said para, Committee decided to modify it as follows:</p> <p>“.... An estimated 56,727 TPD of coal would be transported through an MGR system of 180.54 ha of land upto Kotaraliya</p>

Minutes uploaded on PARIVESH			To be read as		
		<p>Railway Siding to the linked Lara Super Thermal Power Station at a distance of 60 km when Lara STPP achieves full capacity. Till such time, Lara STPP achieves full capacity, surplus coal production after meeting the EUP requirement will be sold/ utilized as per the government directives and/ or in accordance with the Clause no. 8 of Allotment Agreement of Ministry of Coal dated 10.10.2025 and hence the surplus coal may be sold to the consumers as allowed by Ministry of coal from the pit head or nearest railway siding via road or road cum rail mode.....”</p>		<p>Railway Siding to the linked Lara Super Thermal Power Station at a distance of 60 km when Lara STPP achieves full capacity. Till such time, Lara STPP achieves full capacity, surplus coal production after meeting the EUP requirement will be sold/ utilized as per the government directives and/ or in accordance with the Clause no. 8 of Allotment Agreement of Ministry of Coal dated 27.03.2015 and hence the surplus coal may be sold to the consumers as allowed by Ministry of coal from the pit head or nearest railway siding via road or road cum rail mode.....”</p>	

### 3. Details of proposals considered by the committee

Day 1 -08/12/2025

#### 3.1. Agenda Item No 1:

##### 3.1.1. Details of the proposal

Arjuni East Coal Mine, Sohagpur Coal Field (Block Area: 1044.819 ha) with Proposed Coal Production Capacity: 1.36 Million TPA located at Villages: Arjuni, Badwahi, Dhaurai & Pahadiya, Tehsil: Pali, District: Umaria, Madhya Pradesh. by UltraTech Cement Limited located at UMARIA, MADHYA PRADESH

Proposal For		Fresh EC	
Proposal No	File No	Submission Date	Activity Sub-Activity (Schedule Item)
<a href="#">IA/MP/CMIN/553409/2025</a>	IA-J-11011/236/2024-IA-II(M)	27/11/2025	Mining of minerals Coal Mining - Under groun

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### 3.1.2. Project Salient Features

#### Agenda No. 36.1:

**36.1:** Arjuni East Underground Coal Mine (area 1044.819 Ha having capacity 1.36 MTPA) by **M/s UltraTech Cement Limited**, located at villages: Pahadiya, Dhaurai, Arjuni and Badwahi; Tehsil: Pali; District: Umaria; State: Madhya Pradesh – **Environment Clearance – reg.**

**[Online Proposal no. IA/MP/CMIN/553409/2025; Consultant: JM EnviroNet Pvt. Ltd. - QCI/NABET/ENV/ACO/25/3796 – valid up to 07.08.2026]**

**36.1.1:** M/s. Ultratech Cement Limited has made an application online vide proposal no. **IA/MP/CMIN/553409/2025**, dated 30.09.2025 along with the copy of EIA/ EMP report, CAF & Form seeking Environment Clearance (EC) under the provisions of 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 appraised at Central Level. The project does not attract General Conditions as specified in Schedule of the EIA Notification, 2006.

Arjuni East Underground Coal Mine (area 1044.819 Ha having capacity 1.36 MTPA) by M/s UltraTech Cement Limited, located at villages: Pahadiya, Dhaurai, Arjuni and Badwahi; District: Umaria; State: Madhya Pradesh.

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

#### **36.1.2: Environmental Site Settings:**

The ML area is covered under Survey of India Toposheet No. F44D7 (64 E/7) and is bounded by the geographical coordinates ranging from Latitude: 23°20'37" N to 23°22'55" N and longitudes 81°15'35" E to 81°17'23" E.

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 652.905 Ha (Reserve Forest: 499.06 ha & Revenue Forest: 153.845 ha) of forestland. Application for diversion of forestland of 652.905 Ha as well as surface rights for 24.191 Ha has been submitted vide Proposal No. FP/MP/MIN/QRY/458491/2024, dated 15.05.2024. As on date there is no broken forest area for this mine. This is proposed mine and total area to be disturbed is 24.191 Ha but total forest area to be broken is 15.526 Ha. As remaining 8.665 Ha area to be developed under the greenbelt/ plantation. There is no forestland broken till date and the said project does not involves violation of Van (Sanrakshan Eevam 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/ elephant corridor etc. However, there is a tiger corridor at a distance of 7.13 km, connecting Bandhavgarh National Park and Achanakmar Wildlife Sanctuary.

According to Wildlife (Protection) Act 1972 and its Amendment, Schedule – I species (namely: Sambar, Sloth Bear, Tiger, Leopard, Jungle Cat, Wild Dog, Rat Snake, Cobra, Indian Rock Python, Common Monitor Lizard, Russell's Viper, Common Pochard, White-eyed Buzzard, Common Greenshank Indian Peafowl) were found within the study area. A detailed Wildlife Conservation Plan has been prepared for considering the estimated budget for the conservation of the same is Rs. 1157.30 Lakh & submitted for approval to APCCF (Wildlife), Bhopal through DFO, Umaria

vide Ref. No. UTCL/AECM/2025-26/100, dated 06.06.2025.

**Mine Lease Details:** PP submitted that the block within an area of 1044.819 ha has been allocated by Ministry of Coal, Government of India vide allocation order No: NA-104/2/2023-NA, dated 08.06.2023 (expiry date is 30 years from the date of Mining Lease execution & registration) to M/s. UltraTech Cement Limited. Details of the same are as follows.

S. No.	Govt. Order/Notifications as the case may be	Area (in Ha)
1	Ultratech Cement Limited has been declared as successful bidder in accordance with provision of under rule 5(7) of the Coal Block Allocation Rules 2017 (the Rules) letter dated 27.03.2023 issued by Ministry of Coal	1044.819
2	UltraTech Ltd. have also signed the Coal Block Development & Production Agreement with the Govt. of India on 29.03.2023	1044.819
3	The block allocated by Ministry of Coal, Government of India, Allocation order No: NA 104/2/2023-NA dated 08.06.2023	1044.819
<b>Total-1</b>		<b>1044.819</b>
4	Details of LOI (for area outside lease area)	-
<b>Grand Total</b>		<b>1044.819</b>

#### Other Sensitive Receptors:

	e-Compliance			
	S. No.	Village	Distance	Direction
		Arjuni	Within Core Zone	-
		Badwahi	Within Core Zone	-
		Dhaurai	Within Core Zone	-
		Pahadiya	Within Core Zone	-
		Bhimmadongri	~0.58 km	SE
		Bhadra	~ 1.0 km	ESE
		Amiliha	~1.35 km	ESE
		Bakeli	~ 1.8 km	ENE
		Majhigawan	~2.0 km	SSW
		Mahroai	~2.3 km	South
		Jamudi	~ 2.4 km	NNW
		Marwa Tola	~ 2.5 km	South
		Mohtarai	~2.5 km	North
		Ghaghadar	~ 2.6 km	North
		Maman	~ 3.0 km	NNW
		Neusa	~3.2 km	SE
		Kannabahara	~3.7 km	SE
		Odari	~3.9 km	SW
		Itaur	~ 4.0 km	East
		Salaiya	~4.1 km	East
		Semariya	~4.4 km	SE
		Deogawan	~4.7 km	SE
		Chandpur	~4.8 km	SW



Hospitals				
1	Badwahi Sub Health Ce nter	~0.21 km	SE	
2	Jamudi PHC	~0.43 km	NW	
3	Amiliha sub Health Cent er	~2.01 km	SE	
4	Bakeli Sub Health cente r	~2.35 km	SE	
5	Jamudi Sub Health Cent er	~2.78 km	NW	
6	Bandhwabara Sub Healt h Center	~4.85 km	SW	

Ø **Details of diversions proposed:** This is the proposed underground mining. Total block area is 1044.819 ha; out of which, 102.961 ha is Govt. Land, 288.953 ha is Private Land and 652.905 ha is Forest Land. Out of the total forest area of 652.905 ha; only 24.191 ha to be used for mining activity. Out of the 24.191 ha area, 8.665 ha area to be developed under the greenbelt/plantation. Therefore, except this no surface feature will be disturbed.

Ø **Mitigation measures proposed for the sensitive receptors:**

This is the proposed underground mining. Total block area is 1044.819 ha; out of which, 102.961 ha is Govt. Land, 288.953 ha is Private Land and 652.905 ha is Forest Land.

ü **Forest Area:** The project involves 652.905 ha (Reserve Forest: 499.06 ha & Revenue Forest: 153.845 ha) forest land. Western southern part of the block is covered by the forest area over a gently undulating plain land. Notified forest area covers about 48% of the total area of the block. Out of the total forest area of 652.905 ha; only 24.191 ha to be used for mining activity. Out of the 24.191 ha area, 8.665 ha area to be developed under the greenbelt/plantation.

ü **Habitation:** Proposed mine site is falling in 04 Revenue Villages viz. Arjuni, Badwahi, Dhaurai & Pahadiya lying within the block boundary. No rehabilitation & resettlement of habitation/village is proposed as this is an underground mine.

ü **Road:** There are many small cart tracks present within the mine site connecting nearby Villages. Since mining will be carried out by UG method as such, no diversion of these tracks is proposed.

ü **School:** There are 02 Upper Primary Schools, 03 Primary Schools and 01 higher secondary school located within mine block. As this proposal is for underground mining; hence, no impact on school and relocation/shifting is envisaged due to proposed mining activity. During mining precautionary and mitigative measures will be adopted.

ü **Water Bodies:** The mine site is drained by two small nala one nala flows north westerly in northern part while second nala flows easterly in southern part of the proposed mine. No diversion of Nala is proposed and the subject mine will be an underground; hence, no impact is envisaged.

ü **Electric Lines:** Electric lines with poles pass through the mine block. Due to proposal of underground mining, no requirement of diversion of electric line is envisaged.

However, during mining precautionary and mitigative measures will be adopted which are as follows:

- Ø This is mechanized mining using the board & pillar method with continuous miners.
- Ø Limited span method is proposed for pillar extraction.
- Ø Drilling & blasting will be limited up to development stage and areas having small workable coal patches only.
- Ø Wet drilling will be carried out along with dust collection system.
- Ø Blasting will be carried out with optimal quantity of explosives and with technically established blast design to control noise & ground vibrations within limit.
- Ø Controlled blasting techniques will be adopted.
- Ø Coal transport from belt conveyors upto the surface.
- Ø PUC certified vehicles will be used.
- Ø Regular maintenance of Pay Loaders, HEMMs & transportation vehicles will be carried out.
- Ø Permanent water sprinkling arrangements for main haulage road.
- Ø Development of greenbelt & plantation around the mining activity & other areas will be carried out.
- Ø Wastewater (50 KLD) generated from mine office, rest shelters, Canteen etc. will be treated in STP and treated water (42 KLD) will be used for greenbelt/ plantation development.
- Ø Wastewater (162 KLD) from the HEMM truck/ tipper washing/ workshop will be treated in oil-water separator. After treatment, (146 KLD) water will be reused in dust suppression.
- Ø Settling ponds will be constructed to treat mine discharge water.

#### 36.1.3: Details of ToR:

	ToR Letter was issued by the MoEF&CC, New Delhi with Specific and Standard ToR		
	ToR Amendment Letter was issued by the MoEF&CC, New Delhi for revised Forest Area from 498.463 ha to 652.905 ha		

**36.1.4: Details of Mining Plan:** Mine plan & Mine Closure plan for the project were approved by the Ministry of Coal (Rated capacity 1.36 MTPA & Peak Capacity: 2.04 MTPA, Area 1044.819 Ha) vide letter no ARJUNI EAST COAL MINEMPMP043/APP00258/2023, dated 12.01.2024. Later, Minor updatons/ changes in Approved Mining Plan & Mine Closure Plan of Arjuni East Coal Mine under Para 2.9 (b) - Revision of Mining Plan, Mining Plan Guidelines for Coal & Lignite Mine 2025, dated 31.01.2025, Revision-01, has been done at all respective places in the Mining Plan and approval regarding the same updatons has been obtained from the Board of Director, dated 23.04.2025.

1. Method of mining to be adopted shall be Mechanized Bord and Pillar UG working with deployment of Continuous Miners. Wherever required, SDLs & LHDs may also be deployed for drivage of advance galleries to support mechanization. In areas or situations where it is not possible to deploy CMs (having small workable coal patches major breakdown, overhaul etc.), it is proposed to extract the coal by drilling and blasting with

LHD/ semi mechanized technology.

2. No waste is proposed to be generated as this is an underground coal mine. Soil excavated from excavations of Inclines and shaft to be used for greenbelt development. Excavated rock waste will be generated from drivage of inclines and shaft, which will be of very less quantity. This is proposed to be spread out in the infrastructure area and proposed to be used for construction of road & backfilling of low-lying infrastructure area.

3. Total geological reserve reported in the mine lease area are 146.480 Million Tonnes with 54.9180 Million Tonnes mineable reserves. Out of total mineable reserves, 28.30 Million Tonne reserves are available for extraction. Percent of extraction is 21.4670%.

4. Total 14 seams are available within mine area, out of which 04 seams are workable with thickness ranging from 0.30 m to 7.56 m. Grade of coals G9-G16. This proposal is for underground mining. During excavation of coal from underground mining, there is no generation of OB; hence, details of stripping ratio are not applicable. The gradient is around 1 in 35 to 1 in 50.

5. Life of mine is 27 years.

6. Details of Land use:

a) Pre-mining land use pattern:

S. N o.	Land Use	Within ML Area (h a)	Outside ML Area (ha)	Total (ha)
1.	Agricultural Land	284.791	-	284.791
2.	Forest Land	652.905	-	652.905
3.	Waste Land	-	-	-
4.	Grazing Land	9.268	-	9.268
5.	Surface Water Bodies	2.222	-	2.222
6.	Settlements	12.983	-	12.983
7.	Other (Community/Other, Road & Barren)	82.65	-	82.65
<b>Total</b>		<b>1044.819</b>	-	<b>1044.819</b>
S. No.	Type	Total Area (h a)	Reclaimed Area (h a)	Un-Reclaimed Area (ha)
1	Excavation/Quarry Area	-	-	-
		-	-	-

S. No.	Type	Total Area (ha)	Reclaimed Area (ha)	Un-Reclaimed Area (ha)
		0.540	0.540	-
2	External Dump	-	-	-
3	Safety Zone	-	-	-
4	Roads & Infrastructure	14.656	14.656	-
5	Garland Drains	-	-	-
6	Embankment	-	-	-
7	Others (UG Entry, Settling Pond, Greenbelt/Plantation, Undisturbed OR Mining Right for UG)	1029.623	8.995	1020.628
<b>Total</b>		<b>1044.819</b>	<b>24.191</b>	<b>1020.628</b>

*Source: Approved Mining Plan along with Mine Closure Plan*

- a. **In pit:** From underground face via network of belt conveyors which will discharge into 3 x 150 tonner bunker to be installed at surface.
- b. **Surface to siding:** Coal from this bunker will be loaded onto the trucks and transported to the nearest railway siding and it will be transported to the nearby Plants of UltraTech Cement Limited via covered trucks.
- c. **Siding to loading:** Coal from this bunker storage will be loaded onto the trucks and to be transported via road to nearest road to nearest railway siding or end user or Cement Plant of UltraTech Cement Ltd. via covered trucks.
- d. **Proposed change in transportation:** The coal from the UG mine will be transported through conveyor belt which will discharge into 3x150 tonner bunker which will be installed at surface. Coal from the bunker storage will be loaded onto the trucks. Coal transportation will be done for Initial 5 year 100% by road. After development of railway siding (at a distance of 9 km from the ML area) the coal will be transported by road as well as by road & railway siding to end users.

8. **Reclamation details:** PP reported that this is proposed underground mine and total area to be disturbed is 24.191 ha for making the surface infrastructure for mining purpose. Out of the 24.191 ha area; 8.665 ha area to be developed under greenbelt/plantation within & around facilities. Density of plantation shall be 2500 saplings per Ha. Remaining, 14.656 ha area will be used for making the surface infrastructure viz. Roads & Infrastructure: 14.656 ha, for UG entry: 0.540 ha, for Top Soil Dump: 0.115 ha & for Settling Pond: 0.215 ha. Thus, total area use for the mining purpose is 15.526 ha. At conceptual stage, this area will also be reclaimed and rehabilitated by plantation. At the end of life of mine, total reclaimed area is 24.191 ha and same will be returned to the Forest Dept. 1020.628 Ha area will remain undisturbed with mining right for underground mining.

#### 36.1.5: Baseline Data:

Parameter	Description	Additional Study (If any)																									
Period	Post Monsoon (Oct. to Dec. 2023)																										
AAQ parameters at 11 Locations (min and max)	<p>PM<sub>10</sub>: 38.0 to 52.5 <math>\mu\text{g}/\text{m}^3</math>  PM<sub>2.5</sub>: 18.8 to 31.9 <math>\mu\text{g}/\text{m}^3</math>  NO<sub>2</sub>: 9.1 to 13.9 <math>\mu\text{g}/\text{m}^3</math>  SO<sub>2</sub>: 4.2 to 9.3 <math>\mu\text{g}/\text{m}^3</math>  CO - BDL</p> <p><b>For Buffer Zone</b></p> <p>PM<sub>10</sub>: 41.5 to 75.5 <math>\mu\text{g}/\text{m}^3</math>  PM<sub>2.5</sub>: 20.1 to 46.4 <math>\mu\text{g}/\text{m}^3</math>  NO<sub>2</sub>: 10.5 to 27.9 <math>\mu\text{g}/\text{m}^3</math></p>																										
Incremental GLC Level																											
Ground water quality at 09 Locations																											
Surface water quality at 03 Locations		- DSS																									
Noise levels Leq (Day and Night) at 11 Locations	<p>During night time - 40.7 to 42.4 Leq. dB (A)</p> <p><b>For Residential Zone:</b></p> <p>During night time - 40.3 to 44.2 Leq. dB (A)</p>	-																									
Traffic Assessment Study Findings	<table border="1"> <tr> <td></td> <td>V</td> <td>C</td> <td>Existing V/C</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Proposed V/C</td> <td></td> </tr> </table>		V	C	Existing V/C																				Proposed V/C		Done by JM Enviro Net Pvt. Ltd.
	V	C	Existing V/C																								
			Proposed V/C																								
Flora and Fauna	<p>According to the Wildlife (Protection) Act 1972 and its Amendment, dated 20.12.2022, 15 species viz. Sambar, Sloth Bear, Tiger, Leopard, Jungle Cat, Wild Dog, Rat Snake, Cobra, Indian Rock Python, Common Monitor Lizard, Russell's Viper, Common Pochard, White-eyed Buzzard, Common Greenshank Indian Peafowl were recorded under Schedule I within the 10 km study area. Authenticated list of flora &amp; fauna has been obtained from the Divisional Forest Officer, Umaria Division, Madhya Pradesh vide letter no./Tacniki/2025/1175, Umaria, dated 22.05.2025. Detailed Wildlife Conservation Plan has been prepared considering the estimated budget for the conservation of the same is Rs. 1157.30 Lakh &amp; submitted for approval to APCCF (Wildlife), Bhopal through DFO, Umaria vide Ref. No. UTCL/AEC</p>	Wildlife Conservation Plan was done by NABET Accredited EIA Consultant Sargo Enterprises, Raipur, CG																									

Parameter	Description	Additional Study (If any)
	M/2025-26/100, dated 06.06.2025.	
Water Requirement	<b>Source of Water:</b> Ground Water & Mine Seepage <b>Water Requirement:</b> Total water requirement is 1300 KLD. <b>NOC (For Surface Water):</b> Not Applicable <b>NOC (Ground Water):</b> NOC regarding ground water withdrawal (100 KLD) and seepage (1453 KLD) has been obtained from CGWA on 12.08.2025 and it is valid up to 11.08.2027.	Hydrological Study was done by Hydrological Investigations Division. National Institute of Hydrology, Roorkee and JM EnviroNet Pvt. Ltd

**36.1.6: Details of Water Requirement:** PP submitted that total water requirement is 1300 KLD (72 KLD for domestic use and 1228 KLD for industrial use), same will be sourced from ground water & mine seepage. NOC regarding ground water withdrawal (100 KLD) and seepage (1453 KLD) has been obtained from CGWA on 12.08.2025 and it is valid up to 11.08.2027. No water body is proposed to be diverted for the said project. The excess water will be treated and will be given to the farmers for agricultural use.

**36.1.7: Public Consultation/ Hearing:**

	Times of India (English), Dainik Bhaskar (Hindi), Patrika (Hindi), Vijay Math (Hindi) & Desh Bandhu (Hindi) on 24.05.2025.
	26.06.2025, Thursday at 11:00 AM
	Panchayat Bhawan Dhaurai, Tehsil - Pali, District - Umaria, Madhya Pradesh.
	<b>Chaired by:</b> Ambikesh Pratap Singh, Sub-Divisional Officer (R.), Pali, District: Umaria (MP). Mukesh Srivastava, Regional Officer, MP Pollution Control Board, District: Shahdol (MP)
	157
	Umaria District: 14 Nos. Outside of District: 3
	Employment & Livelihood, Education, Health, Environment, Water and sanitation, Women Empowerment, Rural Infrastructure Development, Sports promotion etc. Budget proposed for addressing the issues raised during Public Hearing is Rs. 500 Lakh.

**Proposed Physical Targets for Addressing Issues of Public Hearing as per MoEF&CC, OM Dated 30.09.2020 & 20.10.2020**

S. N o.	Focus Area	Proposed Activities	Locati on	Budget (Rs. In Lakh)					
				1 s t	2 n d	3 r d	4 t h	5 t h	T o t a l
1	Education & Sports Facilities	White boards (06), Smart Class boards (06) & projectors (06) and computers (12)	Dhaurai, Arjuni, Badhawahi, Pahadia	0 5	0 5	0 5	0 5	0 5	2 5
		Providing infrastructure to Govt. Schools like study tables (80), Benches (80), Chairs (120)		0 5	0 3	0 3	0 3	0 3	1 7
		Facility of toilets (06)		0 2	0 2	0 2	0 2	0 2	1 0
		Distribution of Sports kit to children (100)		0 5	0 8	0 8	0 4	0 4	2 9
		Facilitate willing student for preparation for Competitive Exam like NEET, JEE, UPSC, GATE (06)		1 0	0 5	0 5	0 5	0 5	3 0
		Solar Panels (10KW) & light etc. (06 nos) 01 in each School		1 0	1 0	1 0	1 0	1 0	1 5
		Provide RO Plant(250 LPH) facility (06 nos, 01 in each School/Common Center)		5	5	5	-	-	1 5
2	Health & Care Facilities	Strengthening and Upgradation of Existing Primary Health Centre & Community Health Centre in surrounding villages	Dhaurai, Arjuni, Badhawahi, Pahadia	-	1 5	1 0	-	-	2 5
		Ø Strengthening and Upgradation of Existing Veterinary Health Centre Ø Organize Medical Camps (30) (Eye, Dental etc.) Ø Asha Health Worker support, Awareness Programme for Pregnant & Adolescent Women (10) Ø Vending machine of Sanitary napkins (10)	Dhaurai, Arjuni, Badhawahi, Pahadia	1 0	0 5	0 5	0 5	0 5	3 0
		Two Ambulance facility for nearby Villages	Dhaurai, Arjuni, Badhawahi, Pahadia	1 5	1 5	-	-	-	3 0
3	Skill Development	Facilitating skill training to unskilled & unemployed youth by providing vocational training	Dhaurai, Arjuni, Badhawahi, Pahadia	1 0	5	5	5	5	3 0

S. N o.	Focus Area	Proposed Activities	Locati on	Budget (Rs. In Lakh)						
				1 s t	2 n d	3 r d	4 t h	5 t h	T o t a l	
3	Women Empowerment		uni, B adhwa hi, Pah adia							
		Women Empowerment through Self Help Groups vi z. Stitch Training, Beautification, Pickle Making, small business and trading, and craft-based activities like making foot mats or areca plates etc.	Dhaur ai, Arj uni, B adhwa hi, Pah adia, P ali	0 5	0 3	0 3	0 3	0 3	1 7	
		Training of farmers or farmers groups in different agricultural methods (MODERN METHODS), Training to farmers to grow the Cash crops to enhance agricultural growth, Dairy farming/ Poultry farming/ Goatery	Dhaur ai, Arj uni, B adhwa hi, Pah adia, P ali	0 3	0 3	0 3	0 3	0 3	1 5	
4	Environment	Ø Pond deepening Ø Construction of Water Check Dam in nearby Vill ages for increased ground water level (01)	Dhaur ai, Arj uni, B adhwa hi, Pah adia	1 0	0 5	0 4	0 4	0 4	2 7	
		Provide RO Plant (1000 LPH) facility (04 nos, 01 in each Village)	Dhaur ai, Arj uni, B adhwa hi, Pah adia	-	0 5	0 5	0 5	0 5	2 0	
		Handpump/tubewell (02 in each Village)	Dhaur ai, Arj uni, B adhwa hi, Pah adia	0 5	0 5	0 5	0 5	0 5	2 5	
		Free distribution of 20,000 Plants (5000 in each vill age) under Ek Ped Maa Ke Naam Plantation at prominent public places Plantation in School & Aganwadi	Dhaur ai, Arj uni, B adhwa hi, Pah adia	1 0	0 5	0 5	0 5	0 5	3 0	
5	Infrastructure Development/ Community Welfare	Ø Strengthening/maintenance of village roads i n surrounding near Plant Ø Providing culverts, Street Lights Ø Toilet construction (02 in each village) in ass ociation with Govt. Schemes, Ø Upkeeping of Sport Playground in villages (0 4)	Dhaur ai, Arj uni, B adhwa hi, Pah adia	1 5	1 0	1 0	1 0	0 5	5 0	
		Upkeeping of Community Centre in villages (04)	Dhaur ai, Arj uni, B adhwa hi, Pah adia	5	5	5	5	5	2 5	
		Providing Financial Assistance to BPL families for in stallation of Roof Top Solar Panels under PM Surya Ghar Muft Bijli Yojana of around 1 MW (1000 Hous	Dhaur ai, Arj uni, B	6	6	6	6	6	3 0	

S. N o.	Focus Area	Proposed Activities	Locati on	Budget (Rs. In Lakh)					
				1 s t	2 n d	3 r d	4 t h	5 t h	T o t a l
		ehold x 1 KW On-grid RTS)	adhwa hi, Pah adia						
		Total		1 3 6	1 2 5	1 0 4	8 5	8 0	5 3 0

**36.1.8: Project Cost and EMP Cost:** The total capital cost for the said project is Rs. 547 Crores. Capital cost for environmental protection measures is proposed as Rs. 3921.42 Lakh including PH Budget: Rs. 500 Lakh & Budget for WLCP Approval: Rs. 1157.30 Lakh. Recurring cost for environmental protection measures for the said project is Rs. 154.96 Lakh/Annum. The employment generation from the proposed project is 750.

The details of cost for environment protection measures as follows:

S. No.	Activities	Capital C ost (Rs. In La kh)	Recurring Cost (Rs. In Lak h)
1.	Greenbelt/plantation covering an area of 8.663 Ha (21663 Saplings @ 250 0 per Ha).	43.32	1.0
2	Rain Water Harvesting Structure	45	12.0
3	Pond Rejuvenation	35	8.0
4	Water Shed Management Plan	21.80	3.26
5	Construction of gatland drains around coal stockpile pond.	30	6
6	Fog Canons/mist sprayers will be installed at various locations in the mine a rea	25	2.5
7	Installation of water sprinklers on conveyer	3	0.5
8	Permanent water sprinkling arrangements for main haulage Road	30	1.0
9	Mobile water tanker for water sprinkling on other roads and mining areas	20	1.0
10	Installation, operation & maintenance of bag filter	30	3.0
11	Auto/ Remote controlled water system for dust suppression	50	5

S. No.	Activities	Capital Cost (Rs. In Lakh)	Recurring Cost (Rs. In Lakh)
12	Construction of Bye Pass Road including widening and strengthening of existing public road of 2.5 Km for Transportation of Coal up to NH-43	1000	-
13	Solar power facility proposed to be installed as energy conservation	9	2
14	Installation/ Operation and Maintenance of WTP of 6000 KLD	700	15
15	<b>Budget proposed for Wildlife Conservation financial outlay for Schedule I Species</b>	1157.30	-
<b>Sub Total</b>		<b>3199.42</b>	<b>60.26</b>
1	Installation of continuous Ambient Air Quality Monitoring Station	70	3
2	Fugitive/ Underground Air Quality Monitoring	10	3
3	Ground water quality Analysis including Heavy metals (Quarterly)	0	1.5
4	Ambient Noise Monitoring (Quarterly)	3	0.5
5	Soil Monitoring (Half Yearly)	-	0.2
6	Work Place Noise Level Monitoring (Quarterly)	2	0.5
7	Providing PPEs to mine workers	15	10
8	Ultimate & Proximate Analysis of Coal on Annual Basis	2	1
<b>Sub Total</b>		<b>102</b>	<b>19.7</b>
1	Occupational Health Check-up of Mines Employees	15	3
2	Installation of Piezometer in & around ML Area	5	1
3	Setting up of Laboratory for Monitoring	-	50
4	Digital mapping of entire mine area once in 3 years (Rs. 4.5 Lakh once in 3 years)	-	1.5
5	Third Party Annual Audit for Compliance of EC Conditions	-	4.5
6	<b>Others, if any contingencies, unplanned</b>	100	15
<b>Sub Total</b>		<b>120</b>	<b>75</b>

S. No.	Activities	Capital Cost (Rs. In Lakh)	Recurring Cost (Rs. In Lakh)
	<b>Grand Total</b>	<b>3421.42</b>	<b>154.96</b>
D	<b>Budget for Addressing the Public Hearing Issues</b>	<b>530</b>	<b>-</b>
	<b>Grand Total</b>	<b>3951.42</b>	<b>154.96</b>

### 36.1.9: Details of Solid and Hazardous Waste:

S. N o.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1.	Solid Waste (Domestic Waste)	Mine Site	15	Organic Composter and Vermi-Compost Pits.	The same will be used as manure in greenbelt- By Road
2.	Plastic Waste (Packing material)	Equipment/components/ spare parts packing	0.5	-	Through registered agencies - By Road
3.	E-waste IT equipment, electronic parts, cartridges of printer)	Laptops/Desktops/Servers/Printers/Electronics equipment.	160	-	Through registered vendors - By Road
4.	Batteries Waste (Dry Battery)	Caplamp-350, UP S-40 Machineries-12, FSV-3	83	-	Returned to OEM/ Supplier - By Road
5.	Hazardous Waste (Used Oil & Lubricants)	Machineries	45	-	Sold to the authorized CPCB recyclers through Registered Agencies - By Road
6.	C & D Waste (Workshop, pump & pipes & UG Equipment's)	Mine Site	335	-	To be sent to authorized recyclers/ vendors - By Road
7.	Biomedical waste (Waste sharps including metals, Contaminated Waste (Rec	First Aid Centre	-	-	Common Bio-Medical Waste Treatment Facility

S. N o.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
	yclable), Glass ware, Anatomic al Waste, Soile d Waste, Expire d medicine)				

**36.1.10: Power Requirement and details of diversion of Hi-tension/ Transmission line:**

Power requirement of the proposed mine is 10 MW and a 2 x 10 MVA, 33KV/6.6kV substation has been envisaged which will receive power at 33 KV by a double circuit overhead feeder from MPPKVCL's substation. The power will be sourced from Singhpur substation of MPPKVCL Shahdol of East DISCOM, Govt. of MP located around 20 KM from the block in Sohagpur Tehsil in Shahdol District or any other nearby substation. Further, PP submitted that no Hi-tension/ Transmission line is proposed to be diverted for the said project.

**36.1.11: Plantation:** Greenbelt will be developed covering an area of 8.665 ha. Approximately 21663 nos. of saplings will be planted covering an area of 8.665 ha @ 2500 saplings per Ha.

**36.1.12: Rehabilitation & Resettlement issues:** PP submitted that the proposed mine site is falling in 04 Revenue Village viz. Arjuni, Badwahi, Dhaurai & Pahadiya. Habitation of Village Arjuni, Badwahi, Dhaurai & Pahadiya lying within the mine block. Due to proposal of underground mining and only forest land will be acquired for making the surface infrastructure; hence, no relocation and rehabilitation are proposed. Therefore, R&R Plan is not applicable.

**36.1.13: 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 Evar Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

**36.1.14: Details of CTE:** In compliance to the Ministry's OM dated 14.01.2025 and 08.10.2025, PP has obtained CTE vide consent no. CTE-63387, dated 24.11.2025 from MPPCB.

**36.1.15: Undertaking/ Affidavit:** PP vide an affidavit submitted the following:

1. This is a proposed mine. There is no construction done at the site.
2. There is no litigation on the project either at Hon'ble NGT or any other court of Law.
3. Total block area is 1044.819 ha; out of which, 102.961 ha is Govt. Land, 288.953 ha is Private Land and 652.905 ha is Forest Land. Proposal for diversion of 652.905 ha Forest Land as well as Surface Right for 24.191 ha was submitted vide proposal no. FP/MP/MIN/QRY/458491/2024 on 15.05.2024. Proposed project is falling in 04 Revenue Villages viz. Arjuni, Badwahi, Dhaurai & Pahadia lying within the mine block. Since this is a proposal of underground mining, no relocation and rehabilitation of Villages are proposed. Therefore, R&R Plan is not applicable.
4. There is no difference in the documents submitted i.e. Common Application Form, Form 2, EIA/EMP Report and Presentation being made to the LAC.
5. As per EIA Notification dated 14.09.2006, as amended thereof, the coal mining projects having an area > 500 ha falls under the category A of 5. No. 1' (Mining of Minerals), Project or Activity (a) (3). Thus, the Arjuni East Coal Block having an area of 1044.819 ha which is >500 ha. Hence, it falls under Category "A". Therefore, we are submitting the Project to MoEF&CC.

Further vide an undertaking, PP also submitted that, the information provided in EC (CAF, PART

A, PART B & PART C) in .pdf format in PARIVESH, to the Ministry/EAC members and PPT presentation during the EAC meeting to be held on 08.12.2025 have no deviation in respect of the Proposal No: IA/MP/CMIN/553409/2025 for Environment Clearance for Arjuni East Coal Mine Sohagpur Coal Field (Block Area: 1044.819 Ha) with Proposed Coal Production Capacity: 1.36 Million TPA located at Villages: Arjuni, Badwahi, Dhaurai & Pahadiya, Tehsil: Pali, District: Umaria, Madhya Pradesh by M/s. UltraTech Cement Ltd. Also, 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 and 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 Environment Clearance. PP also submitted that there is no litigation pending against and/ or land/ R&R in which the project is proposed and that for any such litigation, whatsoever, the sole responsibility will be borne by the company.

**36.1.16: Written submission:** PP submitted the following details during the meeting:

S. No.	Query raised by the EAC	Details submitted by the PP																																										
1	Details of pond rejuvenation plan	<p>The Pond Rejuvenation Plan focuses on restoring water storage capacity, improving water quality, maintaining ecological balance and encouraging community involvement to ensure long-term sustainability. Key rejuvenation measures include cleaning, dredging, pre-treating inflows, diverting pollutants, treating water, and installing aerators. Preserving these ponds is essential to retain their ecological and hydrological benefits.</p> <p>Main objective/ work involve in Pond Rejuvenation is given below:</p> <ul style="list-style-type: none"> <li>Ø Removal of accumulated silt to restore original depth.</li> <li>Ø Uniform grading of pond bed to improve storage and infiltration.</li> <li>Ø Safe disposal or reuse of desilted material for bund strengthening or agriculture.</li> <li>Ø Enhancement of groundwater recharge through artificial recharge structures like recharge structure.</li> <li>Ø Pond deepening will be done upto 3m depth as suggested by the NIH, Roorkee.</li> </ul> <p>The company selected ponds for rejuvenation located in Arjuni, Badwahi and Darwahi Village. Pond Rejuvenation details are given below:</p> <p style="text-align: center;"><b>Table - 1</b> <b>Pond Rejuvenation Details</b></p> <table border="1"> <thead> <tr> <th>Pond No.</th><th>Khasra No.</th><th>Longitude</th><th>Latitude</th><th>Area (Ha)</th><th>Land type</th></tr> </thead> <tbody> <tr> <td colspan="6"><b>Arjuni Village</b></td></tr> <tr> <td>PND 1</td><td>383</td><td>81.28 835</td><td>23.3 576 6</td><td>1.011</td><td>Govt. Revenue Land</td></tr> <tr> <td>PND 2</td><td>154</td><td>81.27 409</td><td>23.3 626</td><td>0.15</td><td>Govt. Revenue Land</td></tr> <tr> <td>PND 3</td><td>232- 233</td><td>81.28 247</td><td>23.3 636 4</td><td>0.5</td><td>Govt. Revenue Land</td></tr> <tr> <td>PND 6</td><td>153/ 1</td><td>81.27 403</td><td>23.3 653 7</td><td>0.63</td><td>Govt. Revenue Land</td></tr> <tr> <td colspan="6"><b>Bardwahi Village</b></td></tr> </tbody> </table>	Pond No.	Khasra No.	Longitude	Latitude	Area (Ha)	Land type	<b>Arjuni Village</b>						PND 1	383	81.28 835	23.3 576 6	1.011	Govt. Revenue Land	PND 2	154	81.27 409	23.3 626	0.15	Govt. Revenue Land	PND 3	232- 233	81.28 247	23.3 636 4	0.5	Govt. Revenue Land	PND 6	153/ 1	81.27 403	23.3 653 7	0.63	Govt. Revenue Land	<b>Bardwahi Village</b>					
Pond No.	Khasra No.	Longitude	Latitude	Area (Ha)	Land type																																							
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PND 6	153/ 1	81.27 403	23.3 653 7	0.63	Govt. Revenue Land																																							
<b>Bardwahi Village</b>																																												

S. No.	Query raised by the EAC	Details submitted by the PP					
		PND 4	813	81.28 847	23.3 641 9	0.7	Govt. Revenue Forest Land
		PND 5	798	81.28 851	23.3 694 4	0.35	Govt. Revenue Forest Land
		PND 8	796	81.28 506	23.3 667 3	0.7	Govt. Revenue Forest Land
		PND 9	793, 776	81.28 452	23.3 686 6	0.5	Govt. Revenue Forest Land
		<b>Dhaurai Village</b>					
		PND 7	864	81.28 239	23.3 693 5	0.3	Govt. Revenue Land
		PND 10	701	81.27 279	23.3 733 8	0.15	Govt. Revenue Forest Land
		PND 11	707	81.27 112	23.3 738 9	0.42	Govt. Revenue Forest Land
		PND 12	693, 691	81.27 402	23.3 752 5	1	Govt. Revenue Land
		PND 13	551, 550, 552	81.28 108	23.3 795 3	0.97	Private Land
		PND 14	632	81.28 542	23.3 75	0.2	Private Land
		PND 15	Comp No 2 13	81.27 86	23.3 451 1	1.21	Reserve Forest land
		It spans an area of approximately 8.791 ha of total 15 ponds in lease area, with an average depth of 2 m. The capital cost is Rs. 35 Lakh and recurring cost is Rs. 8.0 Lakh.					
2	Details of Water She d Management Plan along with its budgetary provision	<p>The proposed underground mining project is designed to avoid direct disturbance to the forest surface, the surrounding 652.905 ha of forest land may experience indirect ecological stress due to dust deposition, soil compactio n, and changes in infiltration and runoff patterns. To mitigate these impacts and ensure long-term ecological sustainability, an Irrigated Plantation Sche me is integrated with a Watershed Management Plan to enhance soil moist ure retention, biodiversity, and forest resilience within the undisturbed fore st land.</p> <p>Ø Plantation will be carried out on degraded or open forest patches using native, hardy species (timber, fruit-bearing, medicinal, fodder, grasse s). Saplings will be planted in pits (30–45 cm) at 2×2 m or 3×3 m spa cing during monsoon, with compost, neem cake, and mulching support.</p>					

S. No.	Query raised by the EAC	Details submitted by the PP
		<p>Ø Pond No. 15 (1.21 ha) is the main water source, supported by check dams, trenches, and possible treated mine water. Water will be stored in 10,000 Liter tanks, distributed through HDPE pipelines, with drip irrigation for saplings and sprinkler/manual irrigation for grasses.</p> <p>For covering 20 ha area capital expenditure (one-time investment) is Rs. 21.80 Lakh and annual recurring expenditure (maintenance and monitoring costs) is Rs. 3.26 Lakh.</p> <p>In detail Water Shed Management Plan is submitted.</p>
3	Details of subsidence analysis	<p>To know the impact of land subsidence due to underground mining a three-dimensional subsidence prediction due to underground mining for Arjuni East Coal Mine was carried out by the Professor (Dr.) Ashok Kumar, Assistant Professor &amp; Project Leader, Department of Mining Engineering of Indian Institute of Technology (Indian Schools of Mines) Dhanbad, Jharkhand.</p> <p>The subsidence prediction is done at surface under multi-seam condition for coal seams IIIT and IIB/BB/BBB. The values of maximum subsidence and maximum tensile strain are predicted at each grid point with the help of numerical simulation for the proposed panels in coal seams IIIT and IIB/BB/BBB. The layout of all the panels is designed in such a manner that no impact of underground mining would influence the surface structures and features lying in the Arjuni East Coal Block. The predicted maximum subsidence and tensile strain at different stages due to extraction of panels as per the sequence of depillaring are given in Table below:</p>

**Table - 2**  
**Predicted Maximum subsidence and tensile strain**

S. No.	Year of Interval	Max. Subsidence (mm)	Max. Tensile Strain (mm/m)
1	0-5	0.5	0.1
2	5-10	35	0.5
3	10-20	110	1.0
4	End of Life	215	2.5

*Source: Subsidence Study Report*

The maximum cumulative subsidence and tensile strain at the surface after end of the mine life is anticipated to be 215 mm and 2.50 mm/m respectively.

Subsidence and tensile strain rate, likely to be experienced after end of the mine life by different surface structures due to underground mining in Arjuni East Coal Block is given below:

**Table - 3**  
**Subsidence and tensile strain different surface structures**

S. N o.	Name of Surface Structu re	Max. Subside nce (mm)	Max. Tensile Stra in (mm/m)
1	Badwahi Village • Higher Secondary School • Kher Mata Mandir • 4 nos. of village Pond (Talaab)	120	1
2	Dhaurai Village • Health & Wellness Center	165	1

S. No.	Query raised by the EAC	Details submitted by the PP			
			<ul style="list-style-type: none"> <li>• Government High School</li> <li>• Kher Mata Mandir</li> <li>• 11 nos. of Village Pond (Talaab)</li> </ul>		
		3	<ul style="list-style-type: none"> <li>• Arjuni Village</li> <li>• Kher Mata Mandir</li> <li>• Government Primary School</li> <li>• Government High School</li> <li>• 6 nos. of Village Pond (Talaab)</li> </ul>	150	1
		4	<ul style="list-style-type: none"> <li>• Forest Area</li> <li>• 3 nos. of Pond (Talaab)</li> </ul>	200	2
		5	<ul style="list-style-type: none"> <li>• Water Bodies</li> <li>• Baghaunara Nala in South-Central Part passing through Lease Hold Boundary from West to East</li> <li>• Harhar Nala in North-Eastern Part.</li> </ul>	200	2
<p><b>Source:</b> Subsidence Study Report</p> <p>Regular observation and inspection of the surface is important for getting a prior indication of any changes that might occur due to mining. Precautions are to be taken to fill the visible/anticipated cracks in advance, if any, to restore the land in its original position. The findings of this scientific study suggest the adopted mining method as safe considering the subsidence. Three-dimensional numerical simulation technique is adopted for the subsidence prediction due to extraction by Bord &amp; Pillar mining method with caving using Continuous Miner technology in Arjuni East Block. Results of numerical simulation found that the maximum values of subsidence (vertical displacement) and tensile strain rate are under safe limits and do not affecting the surface dangerously. It is proposed to carry out mining operations cautiously below waterbodies with continuous filling of cracks around, if appears on the surface.</p> <p>Copy of the subsidence study report is submitted.</p>					
4	Committee observed that there are Schools present within proposed mine block, details of facilities to be provided to be submitted.	<ul style="list-style-type: none"> <li>Ø There are 02 Upper Primary Schools, 03 Primary Schools and 01 higher secondary school located within mine block. As this proposal is for underground mining; hence, no impact on school and relocation/shifting is envisaged due to proposed mining activity.</li> <li>Ø During mining precautionary and mitigative measures will be adopted.</li> <li>Ø Besides this, Solar Panels (10 KW) &amp; light etc. (06 nos) in each School, budget proposed for this Rs. 50 Lakh.</li> <li>Ø Provide RO Plant (250 LPH) facility (06 nos, 01 in each School), budget proposed for this Rs. 15 Lakh.</li> <li>Ø Education &amp; Sports Facilities will also be provided in these schools and activities along with budget included in Proposed Physical targets.</li> </ul>			
5	Revised physical targ	As suggested, for Strengthening and Upgradation of Existing Primary Health			

S. No.	Query raised by the EAC	Details submitted by the PP
	ets of PH action plan	<p>h Centre &amp; Community Health Centre in surrounding villages to be increased from Rs. 15 Lakh to Rs. 25 Lakh.</p> <p>Solar Panels with approx. 1.0 MW Capacity (1000 Household x 1 KW On-grid RTS), to be installed by providing financial assistance to BPL families for installation of Roof Top Solar Panels under PM Surya Ghar Muft Bijli Yojana. Budget proposed for the same is Rs. 30 Lakh.</p> <p>Physical targets have been updated and budget has been increased from Rs. 500 Lakh to Rs. 530 Lakh.</p>
6	Details of Sensitive Receptors located within 10 km should be submitted.	<p>Details of Sensitive Receptors located within 10 km viz. Habitation, School, Water Bodies, Reserved/Protected Forest, Industries/ Mines and Health Centres is submitted.</p>
7	Detailed Ecology & Biodiversity study	<p>Detailed Ecology &amp; Biodiversity study of proposed mine was done by the Akshya Singh (Ret. IFS), Approved FAE.</p> <p>There are 5 reserve forests and 9 protected forests within 10 km study area. The forests of the study area fall in Umaria Forest Division. As per Champion &amp; Seth Classification, major forest type observed in the project and the study area is Tropical Moist deciduous forest. The forest density is fairly degraded and open.</p> <p>The structure and composition of flora in any geographic location reflect the prevailing climatic and physiographic conditions.</p> <p><b>Flora:</b> The structure and composition of flora in any geographic location reflect the prevailing climatic and physiographic conditions.</p> <p><b>Core Zone:</b> The core zone is virgin land where mining is proposed to be carried out. The natural vegetation in the core area includes trees, shrubs, herbs etc. Tree species namely Bel (<i>Aegle marmelos</i>), Tendu (<i>Diospyros melanoxylon</i>), Mahua (<i>Madhuca longifolia</i>), Neem (<i>Azadirachta indica</i>), Sal (<i>Shorea robusta</i>), Safed siris (<i>Albizia procera</i>), Bargad (<i>Ficus benghalensis</i>) etc. Shrub individuals were Aak (<i>Calotropis procera</i>), Neel (<i>Indigofera pulchella</i>), etc. Ground vegetation includes grasses such as Doob (<i>Cynodon dactylon</i>), Fuli grass (<i>Apluda mutica</i>), Moya (<i>Pennisetum hohenackeri</i>) etc.</p> <p><b>Buffer zone:</b> The flora of study area, apart from fruit bearing trees, also has ethnno medicinal vegetation which villagers use generally for treatment. Common species of trees found are Bel (<i>Aegle marmelos</i>), Mahua (<i>Madhuca longifolia</i>), Tendu (<i>Diospyros melanoxylon</i>), Mango (<i>Mangifera indica</i>), Sinduri (<i>Mallotus philippensis</i>), Sal (<i>Shorea robusta</i>), Arjun (<i>Terminalia arjuna</i>), Peepal (<i>Ficus religiosa</i>), Bargad (<i>Ficus benghalensis</i>), Jamun (<i>Syzygium cumini</i>), etc. Shrubs and herbs are Aak (<i>Calotropis gigantea</i>), Sitaphal (<i>Annona squamosa</i>), Pind Khajoor (<i>Phoenix acaulis</i>), Harsingar (<i>Nyctanthus arbortristis</i>), etc. Climbers found are Doodh bel (<i>Vallaris solanaceae</i>), Shatavari (<i>Asparagus racemosus</i>), Palasbel (<i>Butea superba</i>) etc. and grasses are Doob (<i>Cynodon dactylon</i>), Bans (<i>Dendrocalamus strictus</i>) etc.</p> <p><b>Fauna:</b> The diversity of fauna depends upon density and diversity of flora of the area. The study area has tropical dry deciduous and northern tropical thorn vegetation. It is important to conserve, protect and improve the habitat of the fauna to maintain ecological balance and sustainability in the area.</p> <p><b>Core Zone:</b> Due to presence of forest in the mine lease area, faunal species are present in ML area. Fauna in core zone comprises species of mammals, aves, reptiles and amphibians and fishes. Mammals include bat, hare, monkey, etc. Aves such as myna, heron, blue rock pigeon, cuckoo, egret, house cr</p>

S. No.	Query raised by the EAC	Details submitted by the PP
		<p>ow etc. and reptiles and amphibians include krait, sand boa, toad, etc.</p> <p><b>Buffer Zone:</b> The 10 km radius study area is home to several species of mammals, reptiles and aves. Fauna in buffer zone are in the form of mammals, aves, reptiles and fishes.</p> <p>Various fish species inhabit the water bodies in the area. Mammal species include wolves, porcupines, hares, deer, nilgai, langurs, bats, mongooses and squirrels. The avifauna consists of jungle mynas, house crows, house sparrows, spotted doves, black drongos, kites and peafowls. Reptiles and amphibians found in the area include lizards, pythons, cobras, frogs, and toads. Fish species present are rohu, mrigal, and catla.</p> <p>Copy of the Ecology &amp; Biodiversity study is submitted.</p>
8	Details of gap plantation	<ul style="list-style-type: none"> <li>Ø This is proposed underground mine and total area to be disturbed is 24.191 ha for making the surface infrastructure for mining purpose.</li> <li>Ø Out of the 24.191 ha area; 8.665 ha area to be developed within 5 years under greenbelt/plantation within &amp; around facilities.</li> <li>Ø Out of the 24.191 ha area; 14.656 ha area will be used for making the surface infrastructure viz. Roads &amp; Infrastructure: 14.656 ha, for UG entry: 0.540 ha, for Top Soil Dump: 0.115 ha &amp; for Settling Pond: 0.215 ha.</li> <li>Ø Thus, total area use for the mining purpose is 15.526 ha.</li> <li>Ø At end-of-life stage, this area will also be reclaimed and rehabilitated by plantation. At post closure stage, total reclaimed area is 24.191 ha and same will be returned to the Forest Dept.</li> <li>Ø Approx 8353 nos of trees including 5600 nos of the Amla Plantation will be cut down for making the surface infrastructure (Reserve Forest-22.241 Ha - Tree-8315 including 5600 Amla Plantation and Revenue Forest-1.95 Ha - Tree-38; Total nos of Plants: 8353).</li> <li>Ø To compensate the tree felling 10 times more plantation should be carried out.</li> <li>Ø Therefore, remaining, 8.665 ha area will be developed under the greenbelt/plantation development within and around the mine facilities within 5 years.</li> <li>Ø Approximately 21663 nos. of saplings will be planted covering an area of 8.665 ha @2500 saplings per ha.</li> <li>Ø Rs. 43.32 Lakh have been earmarked for greenbelt &amp; plantation till the end of life of mine @ Rs. 200/sapling.</li> <li>Ø Gap plantation (80,000 nos) will be done in consultation with forest department and the required fund i.e. Rs. 100 Lakh for gap planting has been allocated.</li> <li>Ø Local and fruit bearing species will be planted in consultation with Forest Department.</li> <li>Ø Company will try to maintain the survival rate more than 90%.</li> <li>Ø Species selected for greenbelt &amp; plantation are <i>Terminalia arjuna</i> (Arjun), <i>Acacia nilotica</i> (Babool), <i>Ficus religiosa</i> (Pipal), <i>Azadirachta indica</i> (Neem), <i>Bauhinia variegata</i> (Kachnar), <i>Syzygium cumini</i> (Jamun), <i>Cassia fistula</i> (Amaltas), <i>Delonix regia</i> (Gulmohar), <i>Mangifera indica</i> (Mango), <i>Madhuca indica</i> (Mahua), <i>Dalbergia sissoo</i> (Shisham), <i>Butea monosperma</i> (Palash) etc.</li> <li>Ø The plant species will be selected as per CPCB guidelines and as per Air Pollution Tolerance Index (APTI).</li> </ul> <p>Besides this, strong &amp; rugged fencing also to be developed around the infrastructure.</p>

### 3.1.3. Deliberations by the committee in previous meetings

N/A

### 3.1.4. Deliberations by the EAC in current meetings

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

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

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

**36.1.18:** In view of the foregoing and after the detailed deliberations, the Committee **recommended** the instant proposal for grant of Environment Clearance subject to uploading of written submission on PARIVESH Portal under the provisions of EIA Notification, 2006 subject to the stipulation of following specific conditions and general conditions based on project specific requirements:

### 3.1.5. Recommendation of EAC

Recommended (Subject to submission of requisite information/ documents)

### 3.1.6. Details of Environment Conditions

#### 3.1.6.1. Specific

<b>A. Specific Conditions</b>	
1.	Project proponent shall submit the Stage – I Forest Clearance for diversion of forestland of 652.905 ha involved in the project prior to grant of Environment Clearance as per the MoEF&CC OM dated 09/09/2011 and its amendment.
2.	Project proponent shall comply with all the conditions prescribed by the MPPCB in the CTE dated 24.11.2025.
3.	No water body shall be diverted for the instant proposal, as committed by the project proponent. The watershed management plan shall be implemented within 2 years from the date of grant of EC.
4.	As committed, the project proponent shall implement the pond rejuvenation plan for the 15 nos. of ponds as identified in the Arjuni, Badwahi and Darwahi Villages. The budget allotted for the same (of Rs. 35 Lakhs capital cost and Rs. 8 Lakhs per annum as recurring cost) as be efficiently utilized.
5.	Project proponent shall install the solar lights within the ML area, schools, hospitals and mine infrastructure. Also, project proponent shall provide facilities such as RO plants, provision for sanitary water and education and sports facilities in the 6 nos. of schools located within the ML area. Thick plantation shall be carried out around these schools with the native species within 2 years from the date of grant of EC by planting saplings of not less than 4 feet height.
6.	Project proponent shall comply with all the recommendations of the Subsidence Study report prepared by IIT-ISM Dhanbad, for the said project. Also, PP shall carryout mining operations cautiously below the water bodies with continuous filling of cracks around, if appears on the surface.
7.	Coal is allowed to be transported by road only for the first 5 years from the date of commencement of

	operations. Thereafter, only 10% of the coal shall be allowed to be transported by road to the local consumers, and remaining 90% of coal production shall be transported by railways only as committed.
8.	The coal transportation shall be done by tarpaulin covered trucks and plantation with the native species (of height not less than 4 feet) shall be done on both the side of the entire transportation road. Further PP shall also explore to deploy EV dumpers for transportation of coal. PP 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. Further, as committed, PP shall widen and strengthen the existing road and along with construct the bypass road within 3 years from the date of grant of EC.
9.	Project proponent shall fully compensate for the damage to property, infrastructure, or community assets which may arise due to subsidence, as committed.
10.	The budget proposed for PH is Rs. 530 Lakhs. The budget proposed shall be kept in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 5 years from the date of grant of EC. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six-monthly compliance report.
11.	PP shall implement the protective measure proposed in Environment Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs 3951.42 Lakhs [Capital (including budget for WLCP and Public hearing)] and Rs 154.96 Lakhs/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.
12.	PP shall pay to farmers of agricultural land if there is any loss due to pollution found by concerned District Collector as per extent rules or norms. Suitable measures for enrichment of nitrogen in the soil will be taken up for improving soil fertility and effective steps will be taken to support the farming community in enhancing the production.
13.	No waste shall be dumped on the forestland. PP shall use the waste generated during the installation of mine shaft and mine incline in infrastructure development.

### 3.1.6.2. Standard

1(a)	<b>Mining of minerals</b>
<b>Statutory Conditions</b>	
1.	The Environmental Clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project.
2.	Mining shall be carried out as per the approved Mining Plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant provisions under CMR, 2017 and circulars issued by Directorate General of Mines Safety (DGMS) from time to time.
3.	
4.	The project proponent shall obtain prior approval / clearance from the National Board for Wildlife, if applicable.

5.	In case of the presence of Schedule-I species in the study area, the project proponent shall prepare a Conservation Plan & Wildlife Management Plan which shall be approved by the Chief Wildlife Warden. The recommendations of the approved Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of Schedule-I species in the study area).
6.	The project proponent shall obtain Consent to Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Pollution Control Committee.
7.	The project proponent shall obtain the necessary permission from the Central Ground Water Authority for groundwater abstraction & usage prior to commencement of mining. The proponent shall also obtain necessary permissions for drawl / usage of surface water, if applicable, prior to commencement of mining.
8.	Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016 and subsequent amendments.
9.	In case of diversion of water body / road / railway lines / transmission line, approval for the same from competent authority shall be submitted, as applicable.
10.	Permission of power supply to be taken from the concerned authority for meeting power demand of the project site.
11.	The annual peak production at any given time shall not exceed the limit as prescribed in the EC.
12.	Validity of EC shall be as per life of the mine as mentioned in EC letter or 30 years, whichever is earlier, as per EIA Notification, 2006 and its amendments therein.
13.	In case of change in mining method from UG to OC, prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC) shall be obtained.

#### Air Quality Mitigation Measures and Monitoring

1.	Coal handling points like stockyards / sidings shall be equipped with effective control measures like water sprinkling, fog cannons, wind barriers, vertical greenery systems.
2.	Transportation of coal, to the extent if permitted by road, shall be carried out by covered trucks. Effective control measures such as regular water sprinkling/rain gun/ fog cannons /mist sprinkling, etc., shall be installed in critical areas like coal transport roads, loading/unloading and transfer points.
3.	Transportation of the coal through the existing road passing through any village shall be avoided. In such cases, it is proposed to construct a 'bypass' road, such that the impact of sound, dust and accidents could be appropriately mitigated. Major approach roads shall be black topped / made with concrete and properly maintained.
4.	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in coal transportation shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres. The proponent must strive to use electric vehicles / eco-friendly fuel based vehicles as far as possible.

5.	In order to prevent particulates getting airborne and in order to mitigate dust concentrations, proper housekeeping shall be maintained by the project.
6.	Plantation in core zone and along the coal transportation route shall be taken up within 2 years after issue of EC for control of air pollution. Native tree species of not less than 4 feet shall be selected for plantation.
7.	It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
8.	For ambient air quality monitoring, at least 4 sampling sites shall be established (of which 1 shall be situated in the upwind direction, 1 in core zone and balance 2 shall be located in the buffer zone - in downwind direction and near receptors) for monitoring of pollutants. The frequency of monitoring for core zone shall be as per Coal Mine Standards GSR 742 (E) dated 25.09.2000 and for buffer zone shall be as per NAAQS, 2009. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. The monitoring reports shall be submitted to Regional Office of MoEF&CC and SPCB/CPCB as a part of the six monthly compliance report.
9.	The project shall install an automatic weather monitoring station in the core zone. At least 2 online ambient air quality monitoring stations (CAAQMS) for monitoring of PM10, PM2.5, SO <sub>2</sub> , NO <sub>x</sub> shall be installed - one in core zone and one in buffer zone, in consultation with the SPCB. The data from the CAAQMS shall be connected to CPCB server as well as SPCB server. The calibration of CAAQMS installed shall be carried out as per the calibration protocol for CAAQMS system specified by CPCB and records shall be maintained.

### Water Quality Mitigation Measures and Monitoring

1.	The water pumped out from the mine (seepage water / mine effluent), after treatment, shall be utilized for industrial purpose viz. dust suppression on roads, plantation, and for domestic uses, etc. Balance water after treatment, if any, shall be discharged into surrounding water bodies with prior permission from concerned SPCBs/PCCs.
2.	Industrial wastewater from workshop and/or coal handling plant, if any, shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time.
3.	Sewage treatment plant of adequate capacity shall be installed for treatment of domestic wastewater. The treated water, after conforming to the prescribed norms shall be reused.
4.	Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low-lying areas including coal stockyards, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump capacity shall also provide adequate retention period to allow proper settling of silt material of the surface runoff. The garland drains shall be regularly desilted, particularly after monsoon and maintained properly.
5.	Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side, stabilized with plantation so as to withstand the peak water pressure preventing any chance of mine inundation.
6.	In case of diversion / straightening of any river / nallah, the same shall be done only after approval is granted by Water Resources Department / Irrigation Department / approved regulatory agency of the

	concerned state. Mitigation measures or management plan proposed under EIA/EMP as well as regulatory agencies as a part of the diversion plan shall be duly complied with.
7.	Project proponent shall provide a rain water-harvesting pond in ML area in the core zone.
8.	The effluent discharge (mine water, workshop effluent, CHP wastewater (if applicable), STP if applicable) - shall be monitored in terms of the parameters and frequency notified under the Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. The effluent samples must include raw effluent (i.e. upstream of treatment facility) as well as treated water (i.e. outlet stream from treatment facility). The monitoring reports shall be submitted to Regional Office of MoEF&CC and SPCB/CPCB as a part of the six monthly compliance report.
9.	Project proponent shall install ground water monitoring piezometers prior to commencement of production in line with NOC issued by CGWA. The water level will be monitored for all piezometers and the record will be shared with the Regional Office (CGWB).

#### **Noise Prevention and Monitoring**

1.	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work zone environment. Operational safety norms for worker safety as prescribed by DGMS for UG coal mines must be adhered to.
2.	In case of installation of conveyors, DG sets, etc., adequate noise attenuation measures including acoustic barriers must be installed to control noise pollution.
3.	The noise level monitoring shall be carried out as per the prescribed DGMS guidelines in the core zone to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the RO of MoEF&CC on six-monthly basis.
4.	Ambient noise levels shall be monitored at strategic locations (at least 4 locations of which 2 to be located within the core zone at coal loading point and workshop respectively and remaining 2 to be located in buffer zones near receptors and along coal transportation route). The monitoring reports shall be submitted to Regional Office of MoEF&CC and SPCB/CPCB as a part of the six monthly compliance report.

#### **Risk and subsidence**

1.	Project proponent shall include adequate provisions w.r.t risk management to ensure safety of personnel engaged in mining operations and work zone environment must be maintained in conformity of relevant DGMS norms.
2.	Regular monitoring of subsidence movement on the surface over and around the working areas and its impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings shall be continued beyond post closure period as specified in the Mine Plan/Mine Closure Plan Guidelines issued by MoC from time to time. In case of observation of any high rate of subsidence beyond the limit prescribed, appropriate effective mitigation measures shall be taken to avoid loss of life and materials. Cracks should be effectively plugged in with ballast and clay soil/suitable material.
3.	A separate team for subsidence monitoring and surface mitigation measures shall be created at project level and continuous monitoring & implementation of mitigation measures be carried out.
4.	Thorough inspection of the mine lease area for any cracks developed at the surface due to mining activities below ground shall be carried out to prevent inrush of water in the mine. Native tree species

	shall be selected and planted over areas affected by subsidence.
<b>Land Reclamation</b>	
1.	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change (MoEF&CC) and shall be submitted to MoEF&CC/Regional Office (RO).
2.	Post-mining land be rendered usable as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 31st January, 2025 and subsequent amendments. The post closure land form must be safe & stable and should incorporate repurposing activities like renewables, energy efficiency etc. as feasible.
3.	The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.
4.	Project proponent shall implementation 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.
5.	
<b>Public Hearing and Human Health Issues</b>	
1.	Implementation of the time bound action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the time bound action plan submitted with budgetary provisions during the public hearing.
2.	Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable. Adequate facility of drinking water, plantation and other social amenities should be provided to established R&R villages.
3.	The work zone environment shall be maintained as prescribed under Coal Mines Regulations, 2017 & DGMS (complying with provisions regarding illumination, temperature, humidity, dust, noise, etc.)
4.	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of The Mines Act, 1952 and rules made thereunder and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as per Clause No. 123, 124 & 125 of Coal Mines Regulations, 2017.
5.	Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
6.	Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.
7.	Effective arrangement shall be made to provide and maintain sufficient supply of drinking water at suitable points, for all the persons employed.

8.	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z11013/5712014-IA.I1 (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.
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### Others

1.	The project shall comply with the recommendations of the additional studies like Traffic Study, Biodiversity Management Plan, Carbon Footprint Assessment, as applicable.
2.	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 Ministry's Notification published by the Ministry on 12/08/2021.
3.	The project shall align its activities towards some SDGs and submit the details in its six-monthly compliance report on routine basis.
4.	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.
5.	Post closure monitoring of air quality, water, land & soil etc. shall be carried out by NABL accredited laboratories and analysed with EMP measures at regular interval. A suitable recommendation in this regard, shall be furnished to RO, MoEF&CC for compliance. The data used for analysis shall be obtained from routine environmental monitoring, continuous air / water QMS, etc.
6.	Third Party Environmental Audit shall be undertaken once in every three years through reputed institutes or scientific agencies.

### Corporate Environment Policy

1.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for 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. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions to shareholders/stake-holders
2.	A separate Environmental Cell both at the project and company head quarter level, with adequate qualified personnel shall be set up under the control of senior executive, who will directly report to the Head of the organization.
3.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

### Miscellaneous

1.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days of receipt of EC and in addition, this shall also be displayed in the project proponent's website permanently.
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2.	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 has to display the same for 30 days from the date of receipt.
3.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at Parivesh portal.
5.	The monitoring data w.r.t environmental parameters shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-IA.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
6.	The project proponent shall submit the Environmental Statement for each financial year in Form-V to the concerned State Pollution Control Board, as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
7.	The project authorities shall inform to the Regional Office of the MoEFCC regarding commencement of mining operations.
8.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
9.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
10.	No further expansion or modifications in the mine shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
11.	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.
12.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
13.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company, in a time bound manner, shall implement these conditions.
14.	The Regional Office of this Ministry 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
15.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

### 3.2. Agenda Item No 2:

#### 3.2.1. Details of the proposal

<b>Expansion of Coal Washery Project from 2.5 MTPA to 5.0 MTPA" Located at Village-Gatora, Tehsil-Masturi, District-Bilaspur, Chhattisgarh by Clean Coal Enterprises Pvt. Ltd. (CCEPL), by CLEAN COAL ENTERPRISES PRIVATE LIMITED located at BILASPUR,CHHATTISGARH</b>			
Proposal For		Expansion EC	
Proposal No	File No	Submission Date	Activity Sub-Activity (Schedule Item)
<a href="#">IA/CG/CMIN/541337/2025</a>	J-11015/410/2013-IA-II(M)	03/11/2025	Coal washeries NA (2(a))

#### 3.2.2. Project Salient Features

##### Agenda Item No. 36.2:

**36.2:** Expansion of Coal Washery Project (increase in area from 10.11 Ha to 14.93 Ha with increase in washing capacity from 2.5 MTPA to 5 MTPA) by M/s Clean Coal Enterprises Private Limited, located at village: Gataura; District: Bilaspur; State: Chhattisgarh – Environment Clearance – reg.

[Online Proposal no. IA/CG/CMIN/541337/2025; Consultant: Grass Roots Research & Creation India (P) Ltd., NABET/EIA/24-27/RA 0354, valid up to 16.08.2027]

**36.2.1:** M/s Clean Coal Enterprises Private Limited (CCEPL) has made an online application vide proposal no. No- IA/CG/CMIN/541337/2025 dated 25.06.2025 along with copy of EIA/EMP report, Form and Certified compliance report seeking Environment Clearance (EC) under the provisions of EIA Notification 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 2(a) Coal Washeries, Under Category "A" of the schedule of the EIA Notification, 2006 and appraised at Central Level. The project do not attract the provision of general condition of the EIA Notification, 2006.

Expansion of Coal Washery Project (increase in area from 10.11 Ha to 14.93 Ha with increase in washing capacity from 2.5 MTPA to 5 MTPA) by M/s Clean Coal Enterprises Pvt. Ltd., located at village: Gataura; District: Bilaspur; State: Chhattisgarh.

ToR was granted vide letter no. J-11015/410/2013-IA-II(M) dated 10.06.2023.

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

##### **36.2.2: Details of previous approvals:**

					Date of Issuance	Status of

CTO was also obtained from Chhattisgarh Environment Conservation Board (CECB), Raipur vide letter No. 6809/TS/CECB/2025 dated 16.09.2025 valid till 31/07/2026.

### 36.2.3: Environmental Site Settings:

The project area is covered under Survey of India Topo sheet No F44K4 and is bounded by the geographical coordinates ranging from 22° 3'41.71"N and 22° 3'42.29"N and longitudes 82°13'59.56"E and 82°14'2.60"E. Project does not fall in the Critically Polluted Area (CPA)/Severely Polluted Area (SPA), as per CEPI Assessment 2018.

**Forest Area:** the instant project does not include 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 is no endangered schedule I species in study area of the project. The same has been confirmed by the PCCF – Wildlife, Chhattisgarh vide letter no. 252 dated 11.11.2025.

**Project Area/ Location:** PP submitted that the proposed coal washery will be located in an area of 14.93 Ha (10.11 Ha is the existing washery area and 4.82 Ha is being added for the expansion project). The additional land of 4.82 Ha is privately owned land and the same has been purchased from individual land owners. The lease for the additional 4.82 ha was executed on 19.12.2022 and the PP has submitted relevant lease deed documents. At present, the entire land of 14.93 Ha is under the possession of the project proponent.

#### Breakup of the land area and status of land acquisition

S. N o.	Particular	Existing A rea (Ha)	Expansion Area (Ha)	Total	%
1.	Washery Area	1.82	0.29	2.11	14.13
2.	Raw Coal Stockyard	0.80	0.82	1.62	10.85
3.	Clean Coal Storage Area	0.64	0.82	1.46	9.77
4.	Reject Storage Area	0.60	0.81	1.41	9.44
5.	Other Facilities-Office Building, internal roads, weight bridge, water reservoir, canteen, Labourers, Parking area	2.92	0.50	3.42	22.90
6.	Green Belt	3.33	1.59	4.92	32.95
<b>Sub-Total</b>		<b>10.11</b>	<b>4.83</b>	<b>14.93</b>	<b>100</b>
<b>Total area</b>		<b>14.93 Ha</b>			

#### **Other Sensitive receptors:**

	<table border="1"> <thead> <tr> <th>Particulars</th><th>Distance</th><th>Direction</th></tr> </thead> <tbody> <tr> <td>Gatora Village</td><td>1.66 km</td><td>ENE</td></tr> <tr> <td>Karra village</td><td>1.8 km</td><td>SSW</td></tr> <tr> <td>Butapara</td><td>2 km</td><td>W</td></tr> <tr> <td colspan="3"></td></tr> </tbody> </table>			Particulars	Distance	Direction	Gatora Village	1.66 km	ENE	Karra village	1.8 km	SSW	Butapara	2 km	W			
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Particulars	Distance	Direction																
Government Primary School Karra	1.5 km	SW																

	<b>Particulars</b>	<b>Distance</b>	<b>Direction</b>	
	Govt Middle School Domuhani	1.8 km	SW	
	Holycross Senior secondary school	3.17 km	WSW	
	<b>Particulars</b>	<b>Distance</b>	<b>Direction</b>	
	Arpa River (HFL data: 26 0.15 m)	1.43 km	W	
	Kurung Nadi	1.5 km	W	
	No			
	<b>S. No.</b>	<b>Name of Industry</b>	<b>Distance (k m)</b>	<b>Direction</b>
		Hind energy Gatora	0.2	E
		Agro Papers Industry	3	WSW
		Supreme industry	3.2	SW
		Bilaspur Mining Industries	5	S
	<b>S. No.</b>	<b>Name of Hospitals</b>	<b>Distance (k m)</b>	<b>Direction</b>
		Primary care hospital Dheka	3	SW
		Government Primary Health Centre Devrikhurd	3.62	W

No diversions of the sensitive receptors is proposed for the said project.

#### 36.2.4: Salient features of the project:

- i. M/s Clean Coal Enterprises Pvt. Ltd. (CCEPL) has intended to expand an existing coal washery project with increase in area from 10.11 Ha to 14.93 Ha with increase in washing capacity from 2.5 MTPA to 5 MTPA to supply the clean coal to thermal power plants.
- ii. Heavy media cyclone technology is being used for coal washing.
- iii. The raw coal requirement (ROM Coal 5 MTPA) for the proposed washery will be met from Gevra Mines, located within approx. 75 km from washery, Kusmunda Mines, located within 70 km from Washery and Dipika Mines located 75 km away from Washery will be transported by road and rail. The ROM coal from MCL mines will be transported by Rail Rake.
- iv. Washed Coal will be transported from Washery to HECB Gatora Railway siding and then to End User by Indian Railways network for long distance and by road to nearby users. Railway siding is at a distance of 200 m from site with capacity of 10 rakes per day.
- v. Reject Coal is being transported from Washery to HECB GATORA Railway siding and then to End User by Indian Railway network for long distance delivery & by road to nearby power plants. All the trucks used for transportation of raw coal, washed coal, rejects is being covered.
- vi. Coal stock yard (Raw coal, washed coal & Washery rejects) will be kept in Storage with pucca

platform above ground level provided with wind shields / wind breaking walls. The same practice will be followed for expansion.

vii. Details of land – use:

S. N o.	Particular	Existing A rea (Ha)	Expansion Area (Ha)	Total	%
1.	Washery Area	1.82	0.29	2.11	14.13
2.	Raw Coal Stockyard	0.80	0.82	1.62	10.85
3.	Clean Coal Storage Area	0.64	0.82	1.46	9.77
4.	Reject Storage Area	0.60	0.81	1.41	9.44
5.	Other Facilities-Office Building, internal roads, weight bridge, water reservoir, canteen, Labourers, Parking area	2.92	0.50	3.42	22.90
6.	Green Belt	3.33	1.59	4.92	32.95
<b>Sub-Total</b>		<b>10.11</b>	<b>4.83</b>	<b>14.93</b>	<b>100</b>
<b>Total area</b>		<b>14.93 Ha</b>			

viii. The additional manpower requirement will be sourced from the local areas to the extent possible. The existing manpower is 100, and after expansion, a total of 130 employees will be needed for the expanded plant. Permanent manpower required is 100 and temporary will be 30.

ix. The project site adjacent to Gatora Main Road towards North direction. Also, Site is well connected to National Highways NH-130A which is at 4 km towards NW direction and NH-49 is at 3 km towards SW from the project site. The nearest village is Gatora, which is located about 2 km ENE direction. The nearest railway station is Gatora Railway Station which is located at about 1 km in WSW direction. The nearest airport is Bilasa Devi Kevat Airport which is at a distance of 13 km in WSW direction from the project site.

**36.2.5: Baseline Data:**

<b>Period</b>	<b>December 2022 – February 2023</b>
AAQ parameters at 8 Locations (min and max)	PM <sub>10</sub> - 50.3mg/m <sup>3</sup> to 87.6mg/m <sup>3</sup> PM <sub>2.5</sub> - 26.5mg/m <sup>3</sup> and 49.5mg/m <sup>3</sup> SO <sub>2</sub> - 6.2mg/m <sup>3</sup> to 11.4mg/m <sup>3</sup> NO <sub>2</sub> - 8.6 mg/m <sup>3</sup> to 29.5 $\mu$ g/m <sup>3</sup> CO - 633 $\mu$ g/m <sup>3</sup> to 1380 $\mu$ g/m <sup>3</sup>
Incremental GLC Level	PM <sub>10</sub> - 0.55mg/m <sup>3</sup> PM <sub>2.5</sub> - 0.37 mg/m <sup>3</sup> SO <sub>2</sub> - 0.1 mg/m <sup>3</sup> NO <sub>2</sub> - 4.69 mg/m <sup>3</sup>

	CO - 4.1 mg/m <sup>3</sup>																												
Ground water quality at 8 Locations	pH: 7.06 to 7.41, Total Hardness: 248 to 356 mg/l, Chlorides: 128 to 138 mg/l, Fluoride: 0.48 to 0.84 mg/l. Heavy metals : Iron 0.21- 0.36 mg/l.																												
Surface water quality at 4 Locations	pH: 7.23 to 7.78.; DO: 5.3 to 6.3 mg/l and BOD: 2.4.mg/l to 4.4 mg/l, COD from 8.8 to 18.3 mg/l.																												
Noise levels Leq (Day and Night)	There is no residential area. There is commercial and silence area 45.8 to 63.6 dB(A) for the day time and 34.6 to 52.3 dB (A) for the Night time Industrial area: 68.7 to 73.8 dB(A) for the day time and 55.1 to 65.7 dB (A) for the Night time.																												
Traffic assessment study findings	<p>Traffic study has been conducted at NH-49 which is approximately 3 km towards SW from the mine site. Existing PCU is 1183 PCU/hr on NH-49 and the existing level of service "B".</p> <table border="1"> <thead> <tr> <th>S. No</th> <th>Category of Road</th> <th>Maximum PCU</th> <th>Carrying Capacity of Road</th> <th>V/C R atio</th> <th>Dispatch Ratio (%)</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NH-49</td> <td>1182.6 say 1183</td> <td>5400</td> <td>0.21</td> <td>100</td> <td>B</td> </tr> </tbody> </table> <p>PCU load after proposed project will be 1183(Existing) + 72 (Additional) PCU/h and level of service (LOS) will be "B":</p> <table border="1"> <thead> <tr> <th>S. N o</th> <th>Road</th> <th>Increas ed PCU s</th> <th>Modified V</th> <th>C</th> <th>Modified V/C Ratio</th> <th>Modified V/C Grade</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>NH-49</td> <td>72</td> <td>1183+72= 1125</td> <td>540 0</td> <td>0.22</td> <td>B</td> </tr> </tbody> </table>	S. No	Category of Road	Maximum PCU	Carrying Capacity of Road	V/C R atio	Dispatch Ratio (%)	LOS	1	NH-49	1182.6 say 1183	5400	0.21	100	B	S. N o	Road	Increas ed PCU s	Modified V	C	Modified V/C Ratio	Modified V/C Grade	1.	NH-49	72	1183+72= 1125	540 0	0.22	B
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1.	NH-49	72	1183+72= 1125	540 0	0.22	B																							
Flora and fauna	<p>Flora: 24 tree species, 9 Shrubs and 6 grasses found in the forests The dominant trees in the study area are Sal (<i>Shorea robusta</i>), Azadirachta indica (Neem), M ohua (<i>Madhuca indica</i>), Aam (<i>Mangifera indica</i>).</p> <p>Fauna: 57 bird species, 11 reptiles and amphibians, 16 mammals were found in the forests. Jackal (<i>Canis aureus</i>), Common Mongoose (<i>Herpestes edwardsii</i>), Jungle cat, Monkey (<i>Macaca mulatta</i>), Sambar, Chital, Wild Boar, Nilgai, Squirrel, Hare, Rat.</p> <p>Schedule I fauna: There is no schedule I species in study area.</p>																												
Water Requirement	<p>Source of Water: Surface water and Ground water</p> <p>Water Requirement: 1070 KLD (surface water 1000 KLD + ground water 70 KLD)</p> <p>CGWA NOC vide CGWA/NOC/IND/ ORIG/2023/17557 has been obtained for 70 KLD, valid from 13th Jan 2023 to 12.01.2026 and permission for Surface water from Department of Water Resources, Government of Chhattisgarh vide letter No 1314/F4-128/S-2/310JP/09 dated 26th February, 2018</p>																												

**36.2.6: Water Requirement:** The water required for the said expansion project is 1070 KLD and the source of water will be both surface water (1000 KLD) and ground water (70 KLD). NoC for groundwater has been obtained from CGWA vide CGWA/NOC/IND/ ORIG/2023/17557 for 70 KLD valid from 13.01 2023 to 12.01.2026 and NoC for surface water has been obtained from Department of Water Resources, Government of Chhattisgarh vide letter No 1314/F4-128/S-2/310JP/09 dated 26.02.2018. No water body is proposed to be diverted for the instant project.

**36.2.7: Details of diversion of High-Tension/ Transmission Line:** Power requirement for the expansion project is 2.75 MW and the same will be sourced from solar power and the state grid. 2 DG set of 750 kVA and 250 kVA are proposed for power backup.

**36.2.8: Solid and hazardous Waste generation:**

S. N o.	Type of Waste	Source	Quantity	Mode of Treatment	Disposal	Remarks
1	Organic Waste	Canteen	5.0 TPA	Collected in separate bins	Used in composting/ Vermiculture	-
1	Used Oil/Waste Oil	DG Set & machines	0.1 kl/year	Collected & stored in separate leak proof bins	Will be sold to authorized recycling vendors	-

**36.6.9: Details of Public Hearing:**

Details of advertisement of given	Public hearing notice was published on 03.02.2024 in newspapers namely Dainik Bhaskar and The Times of India
Date of public Hearing	06.03.2024
Venue	Government Pre-Secondary School premises, Village-Karra, Tehsil-Masturi, District-Bilaspur (Chhattisgarh)
Presiding Officer	Shri R.A. Kuruvanshi, Additional Collector
Number of people who attended the public hearing	200 person (approx.)
Number of written representations received from within and outside the district	68
Major issues raised	<ol style="list-style-type: none"> <li>Employment for the locals and upgradation of education facilities in Schools.</li> <li>Air Pollution Control Measures</li> <li>Water requirement for irrigation &amp; Drinking</li> <li>Road Safety Measures</li> <li>Concern about health of local people</li> <li>Maintenance of village road</li> </ol>

Action plan as per MoEF&CC O.M. dated 30/09/2020: Rs. 108 Lakhs has been earmarked as CER funds, which will be spent to address the concerns raised during the public hearing (Employment, Pollution Control, Health and road & Safety Measures of the nearby villages).

S. N o.	Issue Raised during PH	Physical activity and action plan	Budget	2024-2026	2026-2028	2028-2030
1.	Employment for the locals	Willing and employable youths will be identified	19.5 Lakhs Stipend-9.5 Lakhs	6.5 Lakhs 4.0 Lakhs	6.5 Lakhs 4.0 Lakhs	6.5 Lakhs 4.0 Lakhs

S. N. o.	Issue Raised during PH	Physical activity and action plan	Budget	2024-2026	2026-2028	2028-2030
	and upgradation of education facilities in Schools.	<p>tified in consultation with gram panchayat of Gatora, Karra and Butapara. They will be provided training for trades namely electrician, fitters, welders, painters, and civil construction work, etc. After successful completion of training, the youths will be offered employment in company in suitable grade. Development of smart class, distribution of benches, fans, upgradation of sanitary facility, distribution of it, gadgets, printers, computers in schools present in nearby villages our project site. Details are given below:-</p> <ol style="list-style-type: none"> <li>1. Govt Middle School Domuhani at 1.8 km in SSW Direction.</li> <li>2. Government Primary School Karra at 1.5 km in SW Direction.</li> <li>3. Upper Primary High School Gatora at 3.4 km in E direction.</li> </ol>	<p>kh (Rs. 1500 0/- stipend per year to 25 persons.</p> <p>ITI Fee 10.0 Lakhs (Rs. 25000/- yearly fee for 24 persons.</p> <p><b>12.0 Lakhs</b></p>			
2.	Air Pollution Control Measures	<p>Additional Tree plantation (1800 trees) will be done in nearby villages Gatora, Limtara, Karra and Butapara. Water sprinkling on road for dust control in nearby villages in consultation with the authority.</p>	<p><b>18.0 Lakhs</b> (500 per Tree for 450 trees)</p> <p><b>6.0 Lakhs</b> (Installation of water sprinklers)</p>	<p><b>6.0 Lakhs</b> 2.0 Lakhs</p>	<p><b>6.0 Lakhs</b> 2.0 Lakhs</p>	<p><b>6.0 Lakhs</b> 2.0 Lakhs</p>
3.	Water requirement	Construction of RWH structure in Village Gatora.	<b>6.0 Lakhs</b>	<b>6.0 Lakhs</b>		

S. N o.	Issue Raised during PH	Physical activity and action plan	Budget	2024-202 6	2026-2028	2028-2030
4.	Road Safety Measures	Traffic Awareness programme will be conducted in villages villages Gatora, Karra and Butapara. Helmets and first aid kit will be distributed to villagers.	12.0 Lakhs 6.0 Lakhs (Distribution of helmets and First aid kits to 600 people)	4.0 lakhs 2.0 Lakhs (Distribution of helmets and First aid kits to 200 people)	4.0 Lakhs 2.0 Lakhs (Distribution of helmets and First aid kits to 200 people)	4.0 Lakhs 2.0 Lakhs (Distribution of helmets and First aid kits to 200 people)
5.	Concern about health of local people	Health checkup and distribution of medicines in Villages Gatora, Karra and Butapara.	16.5 Lakhs Conducting Health checkup:- <b>Rs. 6.5 Lakhs</b> Providing Medicines and other health facilities :- <b>Rs. 10.0 Lakhs</b>	5.5 Lakhs Health checkup and distribution of medicines in Villages Gatora, and Karra.	5.5 Lakhs Health checkup and distribution of medicines in Village Gatora, and Karra.	5.5 Lakhs Health checkup and distribution of medicines in Village Gatora, and Karra.
6.	Maintenance of village road	Maintenance of village Road	12.0 Lakhs	4.0 Lakhs	4.0 Lakhs	4.0 Lakhs
<b>Total</b>			<b>108 Lakhs</b>	<b>40 Lakhs</b>	<b>34 Lakhs</b>	<b>34 Lakhs</b>

**36.6.10: EMP Cost:** The capital cost for environmental protection measures is proposed as Rs. 1110.5 lakhs for the expansion project. The annual recurring cost towards the environmental protection measures is proposed as Rs 243 lakhs for the expansion project. The employment generation from the expansion is 130 (Existing 100 and Proposed 30). The details of cost for environmental protection measures is as follows:

S. No	Activity	Capital Cost (Lakh)		Recurring expenses proposed/ annum (Lakh)	
		Existing	After proposed Expansion	Existing	After proposed Expansion
1	Air Pollution Control Measures	370	510	82.5	106.5
	Ø DES and Bag House in crusher house	230	270	47.5	60.5
	Ø Fixed Water sprinklers	40	65	10	12
	Ø Mobile water sprinklers	20	40	5	8.5
	Ø Enclosures to belt conveyors	30	50	7.5	9.5

S. No	Activity	Capital Cost (Lakh)		Recurring expenses proposed/ annum (Lakh)	
		Existing	After proposed Expansion	Existing	After proposed Expansion
	Ø Asphalted internal roads	25	50	6.25	7.5
	Ø Rain gun	25	35	6.25	8.5
2	Water pollution control measures	245	267.5	61.25	68.5
	Ø Closed water Circuit, Thickener	210	220	52.5	56
	Ø Storm water drains	10	15	2.5	3.50
	Ø Sewage Treatment Plant	10	12.5	2.5	3.50
	Ø Piezometer to monitor ground water level	15	20	3.75	5.5
3	Green belt development	20.70	50	5.175	12.5
4	Occupational Health & Safety	57.3	70	14.325	15.5
	Ø Provision of PPE	27.3	30	6.825	7.5
	Ø Medical examination	30	40	7.5	8
5	Environment Management Cell	25	30	6.25	7.5
6	Risk Mitigation Measures	25	30	6.25	7.5
7	Environmental Monitoring	--	--	10	10
8	CER Budget	45	153	11.25	15
Total		788	1,110.5	197	243

**36.2.10: Plantation:** Already, more than 21.63 % of existing plant area has been developed as greenbelt i.e., 3.23 Ha and additional 1.71 Ha area will be developed for expansion project. Hence, total green area after expansion will be 4.94 Ha i.e., more than 33% of total plant area.

**36.2.9: Rehabilitation & Resettlement:** The project does not involve rehabilitation and resettlement.

**36.2.11: Project Cost:** Existing capital cost of project was Rs. 41.0 Crores and that for the expansion project is Rs. 11.55 Crores. The total project cost is Rs. 52.55 Crores.

**36.2.12: Certified Compliance Report:** Certified Compliance Report from RO Office, Raipur was received vide File No. EC-837/RON/2018-NGP/75, dated 26.06.2024. Subsequently, a Show Cause Notice was issued on 27.08.2024 for partially complied and non-complied conditions in EC letter. A detailed reply addressing all points was submitted to the RO Office, Raipur on 16.10.2024 by the PP. Thereafter, MoEF&CC directed the RO to verify the compliance of all partially complied and non-complied conditions. Based on the reply by PP and site inspection was held on 30.03.2025, Regional office issued another Report vide letter No. EC-837/RON/2018-NGP/12 dated 21.04.2025. In accordance with the inspection report requirements, a reply confirming actions taken w.r.t. the partially complied and non-complied points was further submitted to the RO, Raipur on 05.05.2025. Subsequently, a personal hearing was convened in the Ministry. As per the proceedings of the personal hearing, PP was advised to take the amendment in the conditions which are not applicable on the same and comply with the timeline for the conditions which are yet to be complied. Details of the same are as follows:

S. No.	Condition No.	Details of the condition as per the EC	Observations of SO in SCN Review Report based on the PP's submission	Conclusion during the Personal Hearing	Way forward/ Timeline as committed by PP during the EAC
1	Specific Condition No. vii	Thick green belt of adequate width to be provided around the washery to mitigate/ check the dust pollution. A 3-tier avenue plantation should also be developed along vacant areas, storage yards, loading/ transfer points, and also along internal roads/ main approach roads.	During the visit, it has been observed that project authority has developed greenbelt on the periphery of the Unit and along the internal roads. However, 3 tier avenue plantation have not been developed on vacant areas, storage yards, loading/ transfer points and internal roads as stipulated in the EC condition.	During the meeting, PP apprised the chair that they have already developed greenbelt along the entire periphery of the plant premises and along internal roads, as per the EC condition. Further, they have informed that Third Party audit of the greenbelt carried out by SEID R, Raipur and a copy of the same was shown during the meeting. They further made the following submissions during the meeting: <ul style="list-style-type: none"> <li>As per the requirement of 33% greenbelt over the total plant area of 1.011 Ha, a minimum of 3.33 Ha is to be covered. Against the required 8,874 plants, a total of 15,775 plants have been planted within the plant premises, out of which 10,885 plants have survived.</li> <li>In line with this commitment, gap plantation/ replenishment in certain areas such as vacant land, storage yards, loading/ transfer points, and i</li> </ul>	31.03.2026
	General Condition no. b. ii.	Three tier greenbelt comprising of a mix of native species, of minimum 30 m width shall be developed all along the washery area to check fugitive dust emissions and to render aesthetic to neighbouring stakeholders. A 3-tier greenbelt comprising of a mix o	Further, Project boundaries are not clearly demarcated rather part of the Project boundaries and railway siding appears to be shared with other adjoining Coal Washeries.		

S. No.	Condition No.	Details of the condition as per the EC	Observations of SO in SCN Review Report based on the PP's submission	Conclusion during the Personal Hearing	Way forward/ Timeline as committed by PP during the EAC
		for native species or tree species with thick leaves shall be developed along vacant areas, storage yards, loading/ transfer points and also along internal roads/ main approach roads.		<p>internal roads, 2000 plants have already been planted. The geotagged photographs of the same were presented during the meeting.</p> <p>With regard to the observation on project boundary demarcation, PP informed that they have already Demarcated the Plant area. However for separating the railway siding from the Plant area PP initiated the process and procured the steel, and raise PO for procurement of profile sheets. Some of the portion will be separated by constructing boundary wall and some part through Profile Sheets, However, due to continuous rains in the region, this job will be completed by Mid Oct or 1st week of Nov.</p> <p>The Plant layout presented by the PP during the meeting reviewed by the Chairman and it was observed PP has initiated the work of boundary demarcation. The matter was discussed with the R.O. and experts in CMD during the meeting, who showed satisfaction with the action taken by the PP. Chairman agreed with the timeline provided by the PP and directed the PP to submit the updated compliance status in this regard <b>by Dec, 2025</b> and the same shall be submitted along with six-monthly compliance reports to SO Raipur.</p>	
2	General Condition no. b. i.	An Integrated Surface Water Management Plan for the washery area	Neither prepared an Integrated Surface Water Management Plan for t	During the meeting, PP appraised the chair that the initial EC dated 18.06.2018 was granted in the name of	<b>31.12.2025</b>

S. No.	Condition No.	Details of the condition as per the EC	Observations of SO in SCN Review Report based on the PP's submission	Conclusion during the Personal Hearing	Way forward/ Timeline as committed by PP during the EAC
		up to its buffer zone considering the presence of any river/rivulet/ pond / lake etc. with impact of coal washing activities on it, shall be prepared, submitted to MOEFCC and implemented.	he washery area, up to its buffer zone considering the presence of any river/ rivulet/ pond/ lake etc. with impact of coal washing activities on it, nor submitted the same and its implementation status to MoEF&CC as stipulated in the general condition b. (i) and thus the condition has not been complied with.	M/s Hind Multiservices Pvt. Ltd. thereafter the EC was amended vide letter dated 03.04.2023. Subsequently, the EC dated 18.06.2018 was transferred in the name of M/s Clean Coal Enterprises Pvt. Ltd. vide letter dated 30.05.2023. Thus, due to change in management and handing over transition, we could not ascertain whether the study has been carried out earlier management. As observed by the SO during the recent inspection now PP had appointed expert agency for preparation of the Integrated Surface Water Management Plan and the work order has also been issued to M/s. BHARAT ENVIROTEC H, Raipur. PP assured that the final ISWMP along with its implementation will be completed by 31st December 2025 and the same will be communicated to MOEF&CC along with Photographs. The matter was discussed with the R.O. and experts in CMD during the meeting, who showed satisfaction with the action taken by the PP. The Chair agreed with the submission made by the PP and directed to adhere to the timelines and submit the ISWMP report and its implementation status by 31st December, 2025 and the same shall be submitted along with six-monthly compliance reports to SO Raipur.	
3	General Condition no. b. v.	Rainwater harvesting in the washery premises shall	Project Authority claims that the condition is not ap	During the meeting, the PP submitted that as per Ministry of Jal Shakti (MoJS) (Dep	PP shall apply for amendment

S. No.	Condition No.	Details of the condition as per the EC	Observations of SO in SCN Review Report based on the PP's submission	Conclusion during the Personal Hearing	Way forward/ Timeline as committed by PP during the EAC
		be implemented for conservation and augmentation of ground water resources in consultation with Central Ground Water Board.	plicable for the Coal Washery in accordance with the Notification issued by the Ministry of Jal Shakti. However, reportedly PA implemented rain water harvesting measures outside the Unit i.e. in the Gatora Village. Ministry may examine the reply of the Project Authority and appropriate view may be taken for amending the said EC condition based on the factual statutory requirements.	partment of Water Resources, River Development and Ganga Rejuvenation) Central Ground Water Authority vide S.O.3298 (E) dt. 24.09.2020 & dt. 29.03.2023 (amendment) rainwater harvesting structure is not applicable for the coal washeries. However, PP informed that they have developed Rain Water harvesting ponds outside the plant i.e. in the Gatora Village with a storage capacity of 20,211 Cum /annum. Further, they assured that a proposal for amendment to this condition will be applied. The Chair asked the PP to apply for amendment of EC condition and the decision regarding the same to be taken by the sector on the basis of recommendation of EAC.	
4	General Condition no. (c) i)	Transportation of coal by road shall be carried out by covered trucks/ conveyors. The transportation of clean coal and rejects shall be by rail with wagon loading through silo. Effective measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulates such as roads, belt conveyors, loading/ unloading and transfer points. Fugitive	It appears that Project Authority has taken corrective measures and installed water sprinklers and also committed to install additional 15 numbers of water sprinklers. Project Authority in their reply submitted monitored data of AAQ for the period of sampling from 11/6/2024 to 12/6/2024. Monitored data show that the values are within the limit. However, Project Authority shall ensure the frequ	During the meeting, PP informed that 15 nos. of Water sprinklers for dust suppression have been installed. CAAQMS is also connected to the SPCB server on 10-12-2022 & will be connected to CPCB by 1st week of October 2025. Another CAAQMS will be installed by end of November 2025. Accordingly, the Chair agreed with the submissions of the PP and directed to install another CAAQMS by the end of November 2025 and both the CAAQMS shall be connected to SPCB and CPCB server. The compliance of the same shall be submitted to the SO Raipur in the six monthly compliance report.	

S. No.	Condition No.	Details of the condition as per the EC	Observations of SO in SCN Review Report based on the PP's submission	Conclusion during the Personal Hearing	Way forward/ Timeline as committed by PP during the EAC
	General Condition no. (c) vii)	dust emissions from all sources shall be controlled at source, it shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/ State Pollution Control Board	ency of AAQ monitoring conformed to the protocol notified.		January 2026
		Hoppers of the coal crushing unit and other washer units shall be fitted with high efficiency bag filters/mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of closed belt conveyor systems and from transportation roads			
5	General Condition no. c. vi.	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SOx and NOx. Location of the stations shall be decided based on the meteor	Project Authority has installed one CAAQ monitoring station near the railway siding/ near the adjoining other Coal Washer, which has not been connected to the server of the CPCB. Further, PA shall install adequate CAAQM Stations as stipul	During the meeting, PP informed that Ambient Air Quality Monitoring (AAQM) is being carried out regularly by a NABL-accredited laboratory, covering key parameters such as PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , and NOx. Relevant reports were presented during the meeting. PP further informed that One Continuous Ambient Air Quality Monitoring Station (CAAQMS) has already b	January 2026

S. No.	Condition No.	Details of the condition as per the EC	Observations of SO in SCN Review Report based on the PP's submission	Conclusion during the Personal Hearing	Way forward/ Timeline as committed by PP during the EAC
		ological data, topographical features and environment and ecologically sensitive receptors in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr carried out at least once in six months.	ated. Though the AAQ is being monitored through third party laboratory, from the monitored AAQ data it has been observed that Hg has not been monitored	een installed near the railway siding, which is in proximity to another adjoining coal washery. CA AQMS was connected to the SPCB server on 10-12-2022 & will be connected to CPCB by 1st week of October 2025. Another CAAQMS will be installed by end of November 2025. Accordingly, the Chair directed the PP to adhere the timelines provided for installation of new CAAQMS and connectivity to CPCB server. Compliance of the same shall be submitted to SO Rairpur along with six-monthly compliance report.	
	General Condition no. j. l.	Continuous ambient Air quality monitoring Stations as prescribed In the statue be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> . Location of the stations shall be decided based on the meteorological data, topographic features and environment and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement			

S. No.	Condition No.	Details of the condition as per the EC	Observations of SO in SCN Review Report based on the PP's submission	Conclusion during the Personal Hearing	Way forward/ Timeline as committed by PP during the EAC
		and/ or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc to be carried out at least once in six months.			
	General Condition no. j. ii.	The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/ Regional Office and to the CPCB/ SPCB.			
6	General Condition no. j. v.	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The mo	In the EC condition, it has been stipulated that regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells. However, the present Pr	PP informed that they have already installed a Piezometer within the premise. PP appraised the Chair that as the extant Project is a coal washery project and not a Mine project, which appears to be inadvertent editorial error. The condition needs to be amended. The chair agreed to the submission and asked the PP to apply for amendment of the EC condition to t	PP shall apply for amendment

S. No.	Condition No.	Details of the condition as per the EC	Observations of SO in SCN Review Report based on the PP's submission	Conclusion during the Personal Hearing	Way forward/ Timeline as committed by PP during the EAC
		onitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post - monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOE FCC/ RO	object is not a Mine and thus the condition needs to be appropriately amended by the regulatory authority concerned.	he concerned sector.	

**33.2.13: Legal Issues/ Violation:** PP submitted 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.

**33.2.14: Comments of State Pollution Control Board, Chhattisgarh as per Ministry's OM dated 14.01.2025 and SOP dated 08.10.2025:**

**COMMENTS:**

**Environment Safeguards**

**1. Strict adherence to EC conditions:**

- All terms and conditions of the Environmental Clearance shall be followed without deviation.

**2. Effluent Management :**

- Untreated sewage or waste water shall not be discharged outside the premise under any circumstances.
- STP shall be provided for treatment of domestic waste water.
- ETP shall be provided for treatment of industrial waste water.
- Process effluent will be treated and will be recycled and reused in the process. Zero liquid discharge shall be maintained.
- Oil & grease trap will be provided for treatment of waste water from workshop and garages. Treated water will be recycled.
- Practicing good housekeeping to maintain hygienic conditions at work site.
- Rainwater to be collected and used for recharging ground water table and to be used in lean season.

### **3. Air Pollution Control:**

- Height of stack shall be as per CPCB norms. Before applying for Consent to Operate, CEMS should be installed in the chimney for continuous monitoring, CAAQMS for measuring ambient air quality, CEQMS for measuring water quality.
- Particulate matter emission from the process stack should be kept below 30 mg/normal cubic meter and the stack height should be kept as per the guidelines of the Ministry of Environment, Forest and Climate Change/CPCB and the height of all other stacks should be kept at 30 meters.
- Proper management of dust suppression, contaminated water, construction waste etc. should be done during the installation work.
- Regular monitoring of ambient air quality inside plant area and in nearby villages
- Water sprinklers arrangement shall be provided in internal road.
- To comply with standard operating procedure (for properly covering vehicles engaged in transportation work) issued by CECB vide order dated 26.06.2024
- Wheel washing system shall be installed at entry and exit gates.

### **4. Noise Control Measures:**

- Provision of enclosures, silencers, etc shall be provided in boilers, Turbo-Generators and DG sets for control noise level.

### **5. Solid Waste Management:**

- Appropriate solid waste management systems must be established before applying for consent to operate.

### **6. Rain Water Harvesting:**

- The recharge pits are to be constructed for recharging the rain water

### **7. Greenbelt and Soil Conservation:**

- Green belt shall be developed in 33% of total land available. Additional width of green belt towards Village Alda & High School shall be developed.

### **8. Labour Camp Sanitation and Health:**

- Drinking water and sanitation facilities shall be provided to labourers.
- Medical aid and first aid kits shall be made available on-site.

### **9. As per RO Recommendations and inclusion of the following Conditions : -**

- investment slab as given Environmental Clearance increases (if any) by the time of application for obtaining Consent to Operate from CECB, Project proponent pays difference fees as per rules.
- Industry shall obtain CGWA NOC Ground water abstraction or Permission from concerned department for withdrawal of surface water.
- NOC from Gram panchayat shall be obtained before Consent to Operate.
- Industry implements adequate/ suggested air pollution control measure/ water pollution control measures before applying for Consent to Operate.
- Industry shall deploy/ implement solid waste disposal scheme as suggested in Environmental Clearance.
- Industry shall install CEMS in all processing unit stacks for continuous measurement of air emission and CAAQMS for measurement of pollutants in

Ambient Air before Consent to Operate.

- Particulate matter emission shall be restricted below 30 mg/ Nm<sup>3</sup> from all processing stacks. With stacks, Height of processing units shall be as per CPCB guidelines. Height of other shall not be less than 30 meters.
- Industry shall implement all effective measures to control dust emission, waste water and construction wastes disposal.
- Industry shall produce/ submit the compliance statement to the conditions stipulated in Environmental Clearance letter.

**33.2.15: Undertaking and Affidavit:** PP vide an affidavit submitted that, the project of Expansion of Coal Washery Project Based on Heavy Media Cyclone from 2.5 MTPA to 5.0 MTPA" Located at Village-Gatora, Tehsil-Masturi, District-Bilaspur, Chhattisgarh by M/s Clean Coal Enterprises Pvt. Ltd. (CCEPL)". Vide affidavit, it submitted the following:

- That the construction done without any deviation as per previous EC obtained for the existing plant from MoEF&CC, New Delhi vide letter No. J. 11015/410/2013-1A.II(M) dated 18.06.2018.
- That, there is no litigation on the project either at NGT or any other court of Law.
- That the land has been purchased by M/s Clean Coal Enterprises Pvt. Ltd. (CCEPL).
- The land is in possession of PP and there is no R&R issue.
- That, there is no difference in the documents submitted Le, Final EIA & its Annexures and presentation being made to the EAC.
- That, our project falls under Activity 2 (a) and Category A Project as per EIA notification, 2006& will be appraised by MoEFCC, New Delhi.

Further, vide an undertaking, it submitted the following:

- This is to certify that the information provided in Form- CAF, Part A, Part B and Part C on PARIVESH, to the Ministry/EAC members and PPT presentation during the EAC meeting to be held on 08th December 2025 have no deviation in respect of the proposal no. IA/CG/CMIN/541337/2025 for EC for coal washery having 14.93 ha of Project area and capacity of 5 MTPA for Coal Washery located at Village-Gatora, Tehsil-Masturi, District-Bilaspur, Chhattisgarh by M/s Clean Coal Enterprises Pvt. Ltd. (CCEPL).
- It is 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 amendment in EC.

**36.2.16: Written Submissions:** During the meeting, PP submitted the following information and documents:

S. No.	Observations	Reply
	PP should submit the revised EMP Budget.	Revised EMP budget is submitted.
	PP should submit the revised budgetary action plan for public hearing.	Revised PH action plan is submitted.
	PP should submit details of land acquired and breakup of existing and expansion land area.	Land area break up with existing and proposed expansion is submitted.
	PP should submit the HFL of Arpa river.	Highest Flood Level of Arpa river is 260.15 m.
	PP should submit a mitigation plan to control PM <sub>10</sub> and PM <sub>2.5</sub> .	<p>Mitigation measures proposed for the same are as follows:</p> <ol style="list-style-type: none"> <li>1. Installation of fixed and mobile water sprinklers, fine-mist fogging systems, and permanent rain-gun sprinklers at coal handling areas.</li> <li>2. Enclosure of conveyors, crushers, screens, and all transfer points to minimize fugitive dust emissions.</li> <li>3. Provision of dust extraction systems/bag filters at crushers, screens, and transfer points.</li> <li>4. Use of covered/closed conveyor systems for internal transport of coal.</li> <li>5. Maintaining adequate moisture content in coal during handling and processing.</li> <li>6. Maximizing the use of existing railway siding for loading/unloading to reduce road transport emissions.</li> <li>7. Where rail transport is unavailable, ensuring all coal-carrying trucks are fully covered with tarpaulin.</li> <li>8. Use of low-emission, well-maintained vehicles and machinery with valid PUC certificates.</li> <li>9. Strict speed limits (<math>\leq 15-20</math> kmph) for all vehicles operating inside the plant.</li> <li>10. Internal roads are blacktopped/concrete d to reduce dust resuspension.</li> <li>11. Regular mechanical sweeping and cleaning of internal roads.</li> <li>12. Use of anti-smog guns during dry, dusty, or windy conditions.</li> <li>13. Minimizing drop height during loading/unloading operations.</li> <li>14. Creating buffer zones and intensifying greenbelt development around the plant boundary.</li> <li>15. Providing dust masks and PPE to all workers in dust-prone areas.</li> <li>16. Conducting regular maintenance of poll</li> </ol>

S. No.	Observations	Reply
		<p>ution control equipment, conveyors, and water sprinkling systems.</p> <p>17. Optimizing material handling to reduce unnecessary movement and dust generation.</p> <p>18. Regular environmental training for workers on dust-control protocols.</p> <p>19. Installation of continuous ambient air quality monitoring stations (CAAQMS) to track PM<sub>10</sub> and PM<sub>2.5</sub> levels.</p> <p>20. Conducting regular environmental and pollution control audits for performance monitoring.</p>
	PP should submit the greenbelt plantation plan along the transportation route.	Approximately 5,000 trees will be planted along the transportation route by March-2026.
	PP should submit the mode of transportation method of ROM coal, rejects and washed coal.	Transportation of ROM coal, washed coal and reject will be through road/rail (60% by rail using own private railway siding and 40% by road with covered trucks).
	PP should submit the Plan for improvement of housekeeping facilities.	<p>Plan for the same is as follows:</p> <ol style="list-style-type: none"> <li>1. Establish a dedicated Housekeeping &amp; Safety Team with defined responsibilities.</li> <li>2. Identify and map critical housekeeping zones such as coal conveyors, screening area, crushers, and stockyards.</li> <li>3. Implement daily cleaning schedules using mechanical/industrial sweepers and water sprinkling.</li> <li>4. Provide color-coded waste bins for segregation of metal scrap, oily waste, and general waste.</li> <li>5. Construct impervious flooring in high spillage and washery operation areas to prevent soil and groundwater contamination.</li> <li>6. Conduct regular cleaning and desilting of drains, siltation traps, and collection pits to control slurry runoff.</li> <li>7. Install dust suppression systems such as dry fog or mist sprinklers at dust-prone units.</li> <li>8. Enclose conveyor belts and transfer points to prevent material spillage and dust escape.</li> <li>9. Develop a dedicated scrap yard with proper tagging, storage, and periodic authorized disposal.</li> </ol>

S. No.	Observations	Reply
		<p>10. Ensure segregation, proper handling &amp; lined storage for hazardous and oily wastes.</p> <p>11. Conduct training programs for employees on hygiene, spill prevention, PPE usage, and safe practices.</p> <p>12. Improve internal roads and pedestrian pathways with concrete/ paving to minimize dust accumulation.</p> <p>13. Promote greenbelt development around coal storage and washery operations for dust filtration.</p> <p>14. Install sludge skimmers or equivalent mechanized systems in slurry tanks for odor and overflow control.</p> <p>15. Conduct monthly internal housekeeping audits and assessments to ensure continual improvement.</p> <p>16. Integrate a worker reward/recognition system to encourage ownership of cleanliness and safety.</p> <p>17. Maintain compliance documentation in Environmental Statement and EC Compliance Reports.</p>
	PP should submit details of Industries and hospitals/ medical facilities within 10 km.	Details of the same is submitted.
	PP should submit the time bound action plan for installation of CAAQMS.	The purchase order for the second CAAQMS was placed on 13.08.2025. The installation was initially planned for completion by November 2025; however, the vendor has reported delays in manufacturing and dispatch. As per the revised schedule, the equipment is expected to be delivered by the end of December 2025, and installation including commissioning will be completed within two weeks thereafter. Accordingly, full compliance will be ensured by mid-January 2026.
	PP should submit the time bound action for 3-tier plantation along the project boundary.	A 33% greenbelt has already been developed and maintained across the project area. After expansion, the total earmarked greenbelt area is 4.92 hectares, for which the guideline requirement is approximately 12,300 trees (at 2,500 trees per hectare). Against this requirement, 15,775 trees have already been planted, out of which 10,885 trees have survived, and an additional 4,000 trees were recently planted to strengthen overall density. While the total greenbelt area and plantation cou

S. No.	Observations	Reply
		<p>nt exceed the prescribed requirement, a few stretches along the boundary appear thinner due to natural plant mortality. To address this, we have initiated a time-bound programme of gap-filling and additional plantation. A further 2,000 native and fast-growing trees will be planted by January 2026, ensuring uniform 3-tier plantation thickness across the boundary.</p> <p>The strengthening work is in progress and will be fully completed by the end of January 2026. Thereafter, plantation maintenance, mortality replacement, and replenishment will continue as a regular and continuous activity to sustain the required greenbelt density.</p>
	PP should submit an Integrated Surface Water Management Plan for the washery	Integrated Surface Water Management Study along with the plan prepared by NIT, Raipur is submitted.

### 3.2.3. Deliberations by the committee in previous meetings

N/A

### 3.2.4. Deliberations by the EAC in current meetings

#### Deliberations and Observation of the Committee:

#### 36.2.17: The Committee noted the following:

#### Recommendations of the Committee:

36.2.17: In view of the foregoing and after the detailed deliberation, the Committee **recommended** the instant proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the stipulation of following specific conditions and general conditions based on project specific requirements and uploading of written submissions:

### 3.2.5. Recommendation of EAC

Recommended (Subject to submission of requisite information/ documents)

### 3.2.6. Details of Environment Conditions

#### 3.2.6.1. Specific

##### Specific Conditions:

1. Project proponent shall comply with all the conditions prescribed by the SPCB in its comments received vide letter dated 04.12.2025.
2. The Plant shall operate on closed water circuit with a concept of 'Zero Liquid Discharge' (ZLD). 100%

	water will be recycled and no treated & untreated wastewater shall be discharged outside the boundaries of project area.
3.	Water spraying shall be done on regular basis inside and around the project area (within 2 km of the plant site) on a regular interval and a log book should be maintained for the same. The fog cannon must be installed at periphery of the Coal washery in order to suppress the dust.
4.	The trucks to be used for transportation of raw coal, washed coal and rejects should be tarpaulin covered. Vehicles proposed to be used for coal transportation shall not be older than 5 years and all should have valid PUC certificates. PP shall also explore the possibility to deploy atleast 20% of the total fleet of e - vehicle/ e - dumpers. Regular water spraying shall be done on transportation route through Water tankers.
5.	PP 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.
6.	Plantation with the native and fast growing species (with saplings of height not less than 4 feet) shall be carried out on both the sides of the coal transportation road by March 2026 with atleast 5000 number of saplings, as committed.
7.	The budget proposed for PH is Rs. 108 Lakhs. The budget proposed shall be kept in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 6 years from the date of grant of EC. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six-monthly compliance report. Apart from this, PP shall also carryout community plantation and shall distribute 10,000 plant saplings mostly fruit bearing species to the villagers to plant and nurture the same with incentive till the life of coal washery.
8.	PP shall implement the protective measure proposed in Environment Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs 1110.5 Lakhs and Rs 243 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.
9.	As committed, CAAQMS shall be installed and commissioned in the core zone by January 2026, as committed. The real time data so generated shall be uploaded on company's website and it will be linked with CPCB &SPCB web portal. In addition, data should also be displayed digitally at entry and exit gate of Plant for public display.
10.	<p>The following mitigation measures, as committed, shall be undertaken to reduce the levels of PM10 and PM2.5:</p> <ul style="list-style-type: none"> <li>i. Installation of fixed and mobile water sprinklers, fine-mist fogging systems, and permanent rain-gun sprinklers at coal handling areas.</li> <li>ii. Enclosure of conveyors, crushers, screens, and all transfer points to minimize fugitive dust emissions.</li> <li>iii. Provision of dust extraction systems/bag filters at crushers, screens, and transfer points.</li> <li>iv. Use of covered/closed conveyor systems for internal transport of coal.</li> <li>v. Maintaining adequate moisture content in coal during handling and processing.</li> <li>vi. Maximizing the use of existing railway siding for loading/unloading to reduce road transport emissions.</li> <li>vii. Where rail transport is unavailable, ensuring all coal-carrying trucks are fully</li> </ul>

covered with tarpaulin.

- viii. Use of low-emission, well-maintained vehicles and machinery with valid PUC certificates.
- ix. Strict speed limits ( $\leq 15-20$  kmph) for all vehicles operating inside the plant.
- x. Internal roads are blacktopped/concreted to reduce dust resuspension.
- xi. Regular mechanical sweeping and cleaning of internal roads.
- xii. Use of anti-smog guns during dry, dusty, or windy conditions.
- xiii. Minimizing drop height during loading/ unloading operations.
- xiv. Creating buffer zones and intensifying greenbelt development around the plant boundary.
- xv. Providing dust masks and PPE to all workers in dust-prone areas.
- xvi. Conducting regular maintenance of pollution control equipment, conveyors, and water sprinkling systems.
- xvii. Optimizing material handling to reduce unnecessary movement and dust generation.
- xviii. Regular environmental training for workers on dust-control protocols.
- xix. Installation of continuous ambient air quality monitoring stations (CAAQMS) to track  $PM_{10}$  and  $PM_{2.5}$  levels.
- xx. Conducting regular environmental and pollution control audits for performance monitoring.

1.1.

- i. Establish a dedicated Housekeeping & Safety Team with defined responsibilities.
- ii. Identify and map critical housekeeping zones such as coal conveyors, screening area, crushers, and stockyards.
- iii. Implement daily cleaning schedules using mechanical/industrial sweepers and water sprinkling.
- iv. Provide color-coded waste bins for segregation of metal scrap, oily waste, and general waste.
- v. Construct impervious flooring in high spillage and washery operation areas to prevent soil and groundwater contamination.
- vi. Conduct regular cleaning and desilting of drains, siltation traps, and collection pits to control slurry runoff.
- vii. Install dust suppression systems such as dry fog or mist sprinklers at dust-prone units.
- viii. Enclose conveyor belts and transfer points to prevent material spillage and dust escape.
- ix. Develop a dedicated scrap yard with proper tagging, storage, and periodic authorized disposal.
- x. Ensure segregation, proper handling & lined storage for hazardous and oily wastes.
- xi. Conduct training programs for employees on hygiene, spill prevention, PPE usage, and safe practices.

	<p>xii. Improve internal roads and pedestrian pathways with concrete/ paving to minimize dust accumulation.</p> <p>xiii. Promote greenbelt development around coal storage and washery operations for dust filtration.</p> <p>xiv. Install sludge skimmers or equivalent mechanized systems in slurry tanks for odor and overflow control.</p> <p>xv. Conduct monthly internal housekeeping audits and assessments to ensure continual improvement.</p> <p>xvi. Integrate a worker reward/recognition system to encourage ownership of cleanliness and safety.</p> <p>xvii. Maintain compliance documentation in Environmental Statement and EC Compliance Reports.</p>
1 2.	
1 3.	Total greenbelt shall be developed in at least 4.94 Ha of the project area. Strengthening of the existing greenbelt shall be done by January 2026. Thereafter, plantation maintenance, mortality replacement, and replenishment shall continue as a regular and continuous activity to sustain the required greenbelt density.
1 4.	Raw coal, washed coal and rejects shall be stored in covered storage facility. Fixed-type high-pressure sprinkler shall be installed in this storage yards.
1 5.	Project proponent shall construct a 20 ft height wind barrier with galvanized/metal sheet all around the boundary of the washery and install fixed-type water sprinkler all along the boundary wall.
1 6.	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.
1 7.	Project proponent shall apply for amendment with valid reasons in the conditions of the previous EC, which are not applicable on the same within 6 months from the date of grant of EC.

### 3.2.6.2. Standard

2(a)	<b>Coal washeries</b>
<b>Statutory compliance</b>	
1.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
2.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
3.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific

	Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area).
4.	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
5.	The project proponent shall obtain the necessary permission from the Central Ground Water Authority
6.	Solid/hazardous waste generated in the mines needs to be addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.
7.	Coal beneficiation practices shall be carried out under strict adherence to provisions of the Factories Act, 1957 and subordinate legislations made there under.
8.	Permission of power supply to be taken from the concerned authority for meeting power demand of the project site.
9.	The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.

#### **Air quality monitoring and mitigation measure**

1.	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO <sub>2</sub> and NO <sub>x</sub> . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. carried out at least once in six months.
2.	Continuous ambient air quality monitoring stations as prescribed in the statute be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc to be carried out at least once in six months.
3.	Transportation of coal by road shall be carried out by covered trucks/conveyors. The transportation of clean coal and rejects shall be by rail with wagon loading through silo. Effective measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulates such as roads, belt conveyors, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled at source. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
4.	Road inside and at periphery of the washery plant shall be constructed of concrete only. All approach roads shall be black topped and internal roads shall be concreted. The roads shall be regularly cleaned. Coal transportation shall be carried out by covered trucks.
5.	Covered trucks shall be engaged for mineral transportation outside the washery upto the railway siding, shall be optimally loaded to avoid spillage en-route. Trucks shall be adequately maintained and emissions shall be below notified limits.
6.	Facilities for parking of trucks carrying raw material from linked mine shall be created within the unit.

7.	Vehicular emissions shall be kept under control and regularly monitored. The vehicles having 'PUC' certificate from authorized pollution testing centres shall be deployed for washery operations.
8.	Hoppers of the coal crushing unit and other washery units shall be fitted with high efficiency bag filters/mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of closed belt conveyor systems and from transportation roads
9.	The raw coal, washed coal and coal wastes (rejects) shall be stacked properly at earmarked site (s) within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored mineral does not catch fire.
10.	The temporary storage site of reject should be appropriately planned and designed to avoid air and water pollution from such sites.
11.	Adequate no. of Fog canon system (mist spraying) shall be installed to reduce the impact of air pollution on transportation route and Railway siding with time bound management plan

#### **Water quality monitoring and mitigation measures**

1.	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
2.	The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-IA.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
3.	Industrial waste water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time.
4.	The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the washery. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side stabilised with plantation so as to withstand the peak water pressure preventing any chance of inundation.
5.	Heavy metal content in raw coal and washed coal shall be analysed once in a year and records maintained thereof.
6.	The rejects should preferably be utilized in FBC power plant and Thermal Power Plant . If the coal washery rejects are to be disposed off, it should be done in a safe and sustainable manner with adequate compaction and post closure arrangement to avoid water pollution due to leachate from rejects and surface run off from reject dumping sites.
7.	An Integrated Surface Water Management Plan for the washery area up to its buffer zone considering the presence of any river/rivulet/pond/lake etc. with impact of coal washing activities on it, shall be prepared, submitted to MoEFCC and implemented.
8.	Waste Water shall be effectively treated and recycled completely either for washery operations or maintenance of green belt around the plant. The washing technology so chosen should conform to 'Zero Liquid Discharge

9.	Rainwater harvesting in the washery premises shall be implemented for conservation and augmentation of ground water resources in consultation with Central Ground Water Board.
10.	No ground water shall be used for coal washing unless otherwise permitted in writing by competent authority (CGWA) or MoEFCC. The make-up water requirement of washery should not exceed 1.5 m3/tonne of raw coal.
11.	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.
12.	Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.
13.	The project proponent shall take all precautionary measures to ensure riverine/ riparian ecosystem in and around the coal mine up to a distance of 5 km. A riverine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government
14.	Adequate number of Rain Water Harvesting system shall be developed within the washery plant and in nearby hospitals or school located within 5 km radius of project area.
15.	PP should install High efficiency centrifuge, belt press filter, high frequency screening, thickener to separate coal fines and maximize water recovery.
16.	If the washery is located near the mine site or withinin mine lease area, then the total industrial water demand (peak) in operation phase shall be met by utilizing mine water to minimize the usage of ground water and surface water.

#### **Noise and Vibration monitoring and prevention**

1.	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.
2.	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.

#### **Coal benefic和平**

1.	Coal stacking plan shall be prepared separately for raw coal, clean coal, middling and rejects.
2.	Efforts should be made to reduce energy consumption by conservation, efficiency improvements and use of renewable energy

#### **Green belt**

1.	The project proponent shall make necessary alternative arrangements, if grazing land is involved in core
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	zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.
2.	PP shall comply with least 33 % of the total land aquired for the washery project for green belt plantation i.e. with trees within the plant boundary. Three tier greenbelt comprising of a mix of native species, of minimum 30 m width shall be developed all along the washery area to check fugitive dust emissions and to render aesthetic to neighbouring stakeholders. A 3-tier green belt comprising of a mix of native species or tree species with thick leaves shall be developed along vacant areas, storage yards, loading/transfer points and also along internal roads/main approach roads.

#### **Public hearing and Human health issues**

1.	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry & its RO on six-monthly basis.
2.	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.
3.	Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
4.	Implementation of the time bound action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.
5.	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.I1 (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.
6.	PP to conduct need based assessment survey of the area to for in order to decide the activities to be carried under the CSR and to provide detail of the activity carried out with adequate budgetary provision and time bound action plan.
7.	PP should conduct epidemiology study to (analysis of the distribution, patterns and determinants of health and disease conditions in defined populations).
8.	Permanent Health care facilities of Hospital should be established within 5 km of project boundary for the local people.
9.	PP to install solar lights along the road used for transportation of coal to avoid the accidents at night and also seek its maintenance.

#### **Corporate Environment Responsibility**

1.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the
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	environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
2.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
3.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
4.	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
5.	PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis. Any non- compliance or infringement should be reported to the concerned authority

#### **Miscellaneous**

1.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
2.	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 has to display the same for 30 days from the date of receipt.
3.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4.	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
5.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
6.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
7.	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.

8.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
9.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
10.	No change in coal beneficiation process and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC) with such conditions mentioned therein. No change in the maximum quantum of raw material feed per annum against the approved washery capacity shall be made.
11.	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.
12.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
13.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
14.	The Regional Office of this Ministry 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.
15.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
16.	Compensation of the land acquired for the project shall be settled as per the R&R Policy Adequate facility of drinking water, plantation and other social amenities should be provided to established R&R villages.
17.	Persons of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records.
18.	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours

### 3.3. Agenda Item No 3:

#### 3.3.1. Details of the proposal

**Proposed Underground Datima Coal Mine (Targeted Capacity: 0.360 MTPA, Peak Capacity: 0.54 MTPA, M L area : 807.91 ha) by Shree Cement Limited located at SURAJPUR,CHHATTISGARH**

Proposal For		Fresh EC	
Proposal No	File No	Submission Date	Activity Sub-Activity (Schedule Item)
<a href="#">IA/CG/CMIN/549387/2025</a>	IA-J-11015/44/2023-IA-I(M)	16/10/2025	Mining of minerals Coal Mining - Under ground (1(a))

### 3.3.2. Project Salient Features

#### Agenda No. 36.3:

**36.3:** Datima Underground Coal Mine (area: 807.91 Ha having production capacity 0.36 MTPA) by M/s Shree Cement Limited, located at villages: Rai, Datima, Kharsura, Kumda and Laxmanpur; District: Surajpur; State: Chhattisgarh – Environment Clearance – reg. [Online Proposal no. IA/CG/CMIN/549387/2025; Consultant: Min Mec Consultancy Private Limited: NABET/EIA/25-28/RA 0399 – valid up to 30.03.2028]

**36.3.1:** M/s. Shree Cement Limited has made an online application vide proposal no. IA/CG/CMIN/549387/2025 dated 30.08.2025 along with the copy of EIA/ EMP report, CAF & Form seeking Environment Clearance (EC) under the provisions of 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 appraised at Central Level. The project does not attract General Conditions as specified in Schedule of the EIA Notification, 2006.

Datima Underground Coal Mine (area: 807.91 Ha having production capacity 0.36 MTPA) by M/s Shree Cement Limited, located at villages: Rai, Datima, Kharsura, Kumda and Laxmanpur; District: Surajpur; State: Chhattisgarh.

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

#### **36.3.2: Environmental Site Settings:**

The ML area is covered under Survey of India Topo Sheet No 64I/15 and 64I/16 and is bounded by the geographical coordinates ranging from 23° 13' 48.083" N to 23° 15' 59.498" N latitude & 82° 57' 41.843" E to 82° 59' 14.152" E longitude.

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 245.83 Ha of forestland. Application for obtaining Stage - I forest clearance has been submitted on the Parivesh portal vide application no. FP/CG/MIN/QRY/456133/2023 dated 20.12.2023. There is no broken forestland and the said project does not involves 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 reserve/ elephant corridor etc. As per the certification issued by the Principal Chief Conservator of Forests (Wildlife and Biodiversity Conservation) vide letter no. 3583 dated 13.08.2024, the distance from the proposed mine lease boundary to Tamor Pingla Wildlife Sanctuary is 28.352 km.

There is presence of wildlife species in the said area (namely: Jackal, Sloth bear, Bengal Monitor, Asiatic Elephant, Striped Hyaena, Indian pangolin, Leopard, Python, Bengal Monitor, Indian Peafowl). The Wildlife Conservation Plan for Schedule-I species in the core and buffer zones has

been approved vide order dated 18.07.2025 by the Chief Conservator of Forest (Wildlife and Biodiversity Conservation) cum Chief Wildlife Protector, Chhattisgarh. A separate budget of Rs. 173.008 lakh has been provisioned for implementation over a period of 10 years.

**Mine Lease Details:** PP has submitted the following details of the mine lease area:

S. No.	Govt. Order/ Notification as the case may be	Area (Ha)
1	Proposed ML area as per approved mining plan - Ministry of Coal's vesting order no.: NA-104/12/2023-NA dated 08.06.2023	807.91
	<b>Total</b>	807.91
2	Details of LOI (for area outside lease area)	0
	<b>Grand Total</b>	807.91

**Other Sensitive Receptors:**

S. No.	Name of Villages	Distance (KM)	Direction
1	Kumda		Within
2	Rai		Within
3	Datima		Within
4	Laxmanpur		Within
5	Gangikot	0.7	S
6	Kamalpur	0.9	E
7	Nawapara	2.1	NW
8	Kharsura	2.1	WNW
9	Mongramorha	2.3	SW
10	Kataipara	2.5	E
11	Batra	2.5	NE
12	Ramnagar	2.5	WSW
13	Bishrampur	2.7	SSE
14	Govindpur	2.8	SE
15	Jhumarpara	2.9	NW
16	Piprapara	3	W
17	Bishrampur	3.1	S
18	Batra	3.2	NNW
19	Ramnagar	3.2	W
20	Cheurdori	3.3	ENE
21	Balrampur	3.4	ESE
22	Sudamanagar	3.4	NE
23	Kaskela	3.5	E
24	Dobripara	3.6	W
25	Khursiya	3.7	N
26	Ghoghra	3.7	NE
27	Karonji	3.7	NW
28	Karsu	4.3	E
29	Kenapara	4.3	NW
30	Nainpur	4.3	SW
31	Sohagpur	4.5	WNW
32	Rampur	4.6	W

S. No.	Name of Villages	Distance (KM)	Direction
33	Karampur	4.7	SE
34	Kasalgiri	4.9	ESE
35	Karampur	5	SE

S. No.	Name of schools, college, educational institute	Distance (km)	Direction
1	Anganwadi Centre Kamlapur	Within	
2	Government School Kumda Basti	Within	
3	Govt Primary School linepara Kumdabasti	Within	
4	Government High School D atima	Within	
5	Primary School Salehapara, Rai Bhaiyathan	0.13	E
6	Govt. Primary School, Gagikort Khas	0.66	S
7	Govt. Primary School Rai	0.67	N
8	Government Higher Secondary School Batra	2.8	NNW
9	Sarvamangala Vidyapeeth Misirpara Batra	2.84	NW
10	Middle School Batara	2.96	NNW
11	Government Higher Secondary School Karanji	3.09	NW
12	Aanganbadi (Jhumarpara)	3.43	NW
13	Sasakiye Middle School	3.53	NE
14	Primary School Mishir Para	3.55	NW
15	Middle School Sonpur	3.61	ENE
16	Government Primary School, Pre-Secondary School Sohagpur	3.61	NNW
17	Swami Vivekanand School, Bishrampur	3.75	S
18	Higher Secondary School	3.76	ENE
19	Govt. High School Ramnagar	4.24	W
20	Veena Kanya Mahavidyalaya	4.36	S
21	Bhartiya Vidya Peeth Higher Secondary School	4.37	SE
22	Dayanand Anglo Vedic Public School	4.62	S
23	Global Public School	4.7	ENE
24	Rajkumar Public Higher Secondary School Bishrampur	4.85	S
25	Primary School Kaskela	4.86	E
26	Govt. Girls Higher Secondary School Bishrampur	4.9	S
27	Swami Aatmanand Govt Hin	4.96	S

		S. No.	Name of schools, college, educational institute	Distance (km)	Direction
			di Medium School, Bishram pur		
		S. No.	Name of River/ nala	Distance (km)	Direction
		1.	Batara Dam	1.1	N
		2.	Pasang Nala	1.5	S
		3.	Gobri Nala	1.6	NE
		4.	Rehar River	3.1	SW
		5.	Pathariya Nala	4	N
		6.	Jhanpi Nala	4.2	NE
		7.	Reservoir near Kaskhela	4.8	E
		S. No.	Particulars	Distance (Km)	Direction
		1.	Kumda R.F.	Within	
		2.	Pasang R.F.	Within	
		3.	P.F. near Ramnagar	0.5	SW
		4.	P.F. near Batra	1.9	NNE
		5.	Kaskela P.F.	3.3	ESE
		6.	Sangara P.F.	4.1	NE
		7.	P.F. near Nainpur	4.5	SW
		Nil			

No diversions are proposed for the said project.

Mitigation measures proposed for the sensitive receptors: 13.53 Ha greenbelt in 150 m around facility area towards habitation and forest area has been provided to act a buffer.

### 36.3.3: Details of ToR:

Date of application	ToR letter Details	Date of Accord	ToR Validity
06/12/2023	IA-J-11015/44/2023-IA-II(M)	29.01.2024	28.01.2028
01/12/2023	TOR amendment- IA-J-11015/44/2023-IA-II(M)	09.09.2024	

**36.3.4: Details of Mining Plan:** The Mining Plan and Mine Closure Plan approved by Ministry of Coal vide letter no. Datima Coal Mine CT/APP00267/2023, dated 08.04.2024.

- Method of mining to be adopted shall be fully mechanized underground mining using bord and pillar method with deployment of continuous miners.
- Total geological reserve reported in the mine lease area are 13.3 MT and the total mineable reserves are 8.435 MT out of which the extractable reserves are 4.208 MT. Percentage of extraction is 31.64%.
- There are 3 nos of seams out of which only 1 seam is workable with the thickness ranging between 0.05-3.64 m. The average grade of coal is G7.

4. Life of mine is 15 years.

5. Topsoil removed from UG facility area will be simultaneously reutilized in plantation & greenbelt development area of 13.53 ha (150 m around facility towards habitation and forest area).

6. There is one number of external waste dump proposed in the in an area of 0.20 Ha, with the height of 8 m. Waste in dump will be of stony nature and will be reused for various purposes such as raising plinth, construction of a structures, stone pitching of settling pond, etc. to the extent possible. At the end of the life of mine, the stone will be reutilized for sealing off of the entries and levelling of the area.

7. Details of Land use:

a) Pre-mining land use pattern:

Land use pattern	Within ML Area (ha)	Outside ML area (ha)	Total
Agricultural Land	477.87	0	477.87
Forest land	245.83	0	245.83
Waste Land	-	-	-
Grazing Land	-	-	-
Surface water Body	9.710	-	9.710
Settlements	30.18	0	30.18
Roads & Railway land	26.595	-	26.595
Others	17.725	0	17.725
<b>Total</b>	<b>807.91</b>		<b>807.91</b>

S. No.	Type	Total Area (ha.)	Reclaimed Area (ha.)	Un- reclaimed area (ha.)
1.	Excavation/Quarry Area:	-	-	-
	(a) Backfilled areas	-	-	-
	(b) Excavated Void	-	-	-
4.	External Dump	0.20	0.20	-
5.	Safety zone	-	-	-
6.	Road, Infrastructure, UG entry	0.99	0.99	-
7.	Garland Drains	-	-	-

8.	Embankment	-	-	-
9.	Undisturbed Area/ Under UG Mining*	791.87	-	791.87
10	Green belt	13.53	13.53	-
11	Others			
	Open area in facility	1.05	1.05	
	Coal stock yard	0.24	0.24	
	Settling tank	0.03	0.03	
	<b>Total</b>	<b>807.91</b>	<b>16.04</b>	<b>791.87</b>

\* Out of 791.87 ha, underground mining will take place under 407.6 ha

**8. Details of transportation:** Coal from the Datima coal mine shall be utilized either at the company's cement plant at Shree Raipur Cement Plant (SRCP), village Khaparadih, Tehsil Simga, District Baloda Bazar- Bhatapara, Chhattisgarh (approximately 310 km) or sold to open market. Transportation of Coal will be done by road or Road-cum-rail.

- a) **In pit:** Coal extracted from the underground working face will be loaded into the Gate Belt Conveyor using shuttle cars. The Gate Belt will transfer the coal to the Trunk Belt system, which will transport it to the surface bunkers. From the bunkers, coal will be dispatched further via trucks for onward transportation.
- b) **Surface to siding:** Coal will be loaded from the bunkers of the Coal Handling Plant (CHP) into consumers' trucks for onward transportation either directly to their destinations or to the nearest railway siding by road.
- c) **Siding to loading:** Front-end loaders will be used to load coal into the wagons of the rake for rail transportation.
- d) **Proposed change in transportation:** No change is proposed.

**9. Reclamation:** Afforestation shall be progressively carried out in 16.04 Ha (including plantation and agriculture). This will include greenbelt of 13.53 Ha (density of plantation will be 2500 trees per Ha) and the agriculture will be developed in 0.20 ha External Dump, 0.55 ha Road, 0.09 ha Infrastructure, 0.35 ha UG entry, 1.05 ha Open area in facility, 0.24 ha Coal stock yard, 0.03 ha Settling tank.

### 36.3.5: Baseline Data:

Period	01.10.2023 to 31.12.2023
AAQ parameters at 12 Locations (min and max)	Core zone $PM_{2.5} = 26.2$ to $32.2 \mu\text{g}/\text{m}^3$ $PM_{10} = 45.2$ to $54.0 \mu\text{g}/\text{m}^3$ $SO_2 = 6.1 \mu\text{g}/\text{m}^3$ to $8.7 \mu\text{g}/\text{m}^3$ $NO_x = 6.6 \mu\text{g}/\text{m}^3$ to $9.1 \mu\text{g}/\text{m}^3$ Buffer zone $PM_{2.5} = 21.3$ to $42.2 \mu\text{g}/\text{m}^3$ $PM_{10} = 38.2$ to $72.39 \mu\text{g}/\text{m}^3$

Period	01.10.2023 to 31.12.2023																														
	$SO_2 = BDL(<6.0 \mu g/m^3)$ to $19.9 \mu g/m^3$ $NO_x = BDL (<6.0 \mu g/m^3)$ to $27.8 \mu g/m^3$																														
Incremental GLC Level	<p><b>Core zone</b>  <math>PM_{10} = 0.34 \mu g/m^3</math> (at Kumda Village within ML)  <math>PM_{2.5} = 0.07 \mu g/m^3</math> (at Kumda Village within ML)  <math>SO_2 = 0.0018 \mu g/m^3</math> (at Kumda Village within ML)  <math>NO_x = 0.35 \mu g/m^3</math> (at Kumda Village within ML)</p> <p><b>Buffer zone</b>  <math>PM_{10} = 0.46 \mu g/m^3</math> (at Karonji Village 4.1 km in NW Direction )  <math>PM_{2.5} = 0.16 \mu g/m^3</math> (at Karonji village 4.1 km in NW Direction)  <math>SO_2 = 0.005 \mu g/m^3</math> (At Patrapara village 2.2 km in SW Direction)  <math>NO_x = 0.97 \mu g/m^3</math> (at Karonji village, 4.1 km in NW Direction)</p>																														
Ground water quality at 08	pH: 5.7 to 7.6, Total Hardness: 40 to 252 mg/l, Chlorides: 12 to 87 mg/l, Fluoride: $BDL(<0.1 \mu g/l)$ to $1.87 \mu g/l$ . Heavy metals: Copper $BDL (<0.01)$ to $0.017 \mu g/l$ , Iron $BDL(<0.1)$ to $0.92 \mu g/l$ besides others																														
Surface water quality at 04 Locations	pH: 6.7 to 7.2 ; DO: 7.2 to 7.8 mg/l and BOD: 1.2 to 9 mg/l, COD: $BDL$ to 20 mg/l																														
Noise levels Leq (Day and Night)	43.86 to 54.06 dBA for the daytime and 37.01 to 48.48 dBA for the Night time.																														
Traffic assessment Study findings	<p>Traffic study has been conducted at (1) Bisrampur road, Nitin petrol pump near Kumda village (2) Bisrampur road near Bisrampur town , (3) NH-43 near Keshav nagar village which is approximately 0 (within ML), 2.7, 5.7 km from the mine site.</p> <p>Transportation of mineral will be done 100% by road direct to end user or to siding.</p> <p>Existing PCU is 2245, 2611, 8507 PCU/day on (1) Bisrampur road, Nitin petrol pump near Kumda village (2) Bisrampur road near Bisrampur town , (3) NH-43 near Keshavnagar village and existing level of service (LOS) is:</p> <table border="1"> <thead> <tr> <th>Road</th> <th>V (Volume in PCU/day (avg.))</th> <th>C Capacity in PCU/day</th> <th>Existing V/C Ratio</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>Bishrampur road, Nitin petrol pump near Kumda village</td> <td>2245</td> <td>30000</td> <td>0.0748</td> <td>A</td> </tr> <tr> <td>Bishrampur road near Bisrampur town</td> <td>2611</td> <td>30000</td> <td>0.087</td> <td>A</td> </tr> <tr> <td>NH-43 near Keshavnagar village</td> <td>8507</td> <td>30000</td> <td>0.283</td> <td>A</td> </tr> </tbody> </table> <p>PCU load after proposed project will be (1) 2245 (Existing) + 240 (Additional) PCU/day, (2) 2611 (Existing) + 240 (Additional) PCU/day, (3) 8507 (Existing) + 240 (Additional) PCU/day and level of service (LOS) will be:</p> <table border="1"> <thead> <tr> <th>Road</th> <th>V (Volume in PCU/ day)</th> <th>C Capacity in PCU/ day</th> <th>Proposed V/C Ratio</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>Bishrampur road, Nitin petrol</td> <td>2485</td> <td>30000</td> <td>0.084</td> <td>A</td> </tr> </tbody> </table>	Road	V (Volume in PCU/day (avg.))	C Capacity in PCU/day	Existing V/C Ratio	LOS	Bishrampur road, Nitin petrol pump near Kumda village	2245	30000	0.0748	A	Bishrampur road near Bisrampur town	2611	30000	0.087	A	NH-43 near Keshavnagar village	8507	30000	0.283	A	Road	V (Volume in PCU/ day)	C Capacity in PCU/ day	Proposed V/C Ratio	LOS	Bishrampur road, Nitin petrol	2485	30000	0.084	A
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Bishrampur road, Nitin petrol	2485	30000	0.084	A																											

Period	01.10.2023 to 31.12.2023				
	pump near Kumaon village				
	Bishrampur road near Bisrampur town	6451	30000	0.095	A
	NH-43 near Keshavnagar village	8747	30000	0.292	A
<p>Note: As per IRC-64-1990. Guidelines for capacity of roads in rural area.</p> <p>Conclusion: The level of service will be "A" after including additional traffic due to proposed project.</p>					
Flora and fauna	<p>There are 3 nos. Schedule I species in core zone, namely, Jackal (<i>Canis aureus</i>), Sloth bear (<i>Melursus ursinus</i>), Bengal Monitor (<i>Varanus bengalensis</i>). There are 9 nos. Schedule I species in buffer zone, namely, Jackal (<i>Canis aureus</i>), Sloth bear (<i>Melursus ursinus</i>), Asiatic Elephant (<i>Elephas maximus</i>), Striped Hyaena (<i>Hyaena hyaena</i>), Indian pangolin (<i>Manis crassicaudata</i>), Leopard (<i>Panthera pardus</i>), Python (<i>Python molurus</i>), Bengal Monitor (<i>Varanus bengalensis</i>), Indian Peafowl (<i>Pavo cristatus</i>). The Wildlife conservation Plan for Schedule I species in the core and buffer zone had been approved vide order dated 18.07.2025 through Shri Sudhir Kumar Agarwal, Chief Conservator of Forest (Wildlife and Biodiversity Conservation) cum Chief Wildlife Protector, Chhattisgarh. A separate budget of Rs. 173.008 Lakhs has been provisioned for 10 years.</p>				
Water Requirement	<p>Source of Water: Potable Water - Ground Water (through borewells) and Industrial Water - Mine water (seepage) / surface reservoir (rainwater)</p> <p>Ground Water Interception: Yes, will take place</p> <p>Water Requirement: 362 KLD (Industrial 326 KLD &amp; potable 36 KLD)</p> <p>NOC (For surface water): NA</p> <p>NOC (Ground Water): No. NOC/MIN/CG/2025/8187 dated 20.11.2025</p>				

**36.3.6: Details of Water Requirement:** Water requirement for the said project is 362 KLD and the same will be sourced from ground water (350 KLD) and recycled water (12 KLD). NoC for the same has been obtained from CGWA vide letter no. NOC/MIN/CG/2025/8187 dated 20.11.2025. PP submitted that no water body is proposed to be diverted for the said project.

**36.3.7: Public Consultation/ Hearing:**

Details of advertisement given	e-Payment	Dainik Bhaskar, The Indian Express
Date of public consultation		17.06.2025
Venue		Jambori Ground, Village Datima, District Surajpur, Chhattisgarh
Presiding Officer		Additional Collector, Surajpur
Number of Person Attended Hearing		300 nos (approx.)
Number of representation received in writing from the district and outside of district, please give details:		163 Nos

Major issues raised	<ul style="list-style-type: none"> <li>Control of pollution (air, water, noise)</li> <li>Protection of Wildlife and Forests</li> <li>Educational facilities improvement</li> <li>Plantation</li> <li>Road development</li> <li>Medical &amp; health facilities provisioning</li> <li>Water related issues (supply, infrastructure, impact on water table, natural water bodies' protection, etc.)</li> <li>Land compensation</li> <li>Subsidence</li> <li>CSR &amp; Peripheral development</li> </ul>
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Datima Underground Coal Mine (Rated Capacity: 0.360 MTPA, ML area: 807.91 ha) at Village Rai in Taluka Bhatgaon, Villages Datima

S. No.	Point Raised During Public Hearing	Action Plan with physical target	Year 1	
			Year 1	Year 2
A	ENVIRONMENT			
1	Control of pollution (air, water, noise)	<p>Company will carry out within the mine in line with the details given in Environment Management Plan (detailed in Chapter 4 &amp; 10 of EIA), implementation starting from commencement of mine till the end of life.</p> <p>*air pollution control - water sprinkling, green belt, maintenance of trucks, etc.</p> <p>* water pollution - STP, ETP, garland drains leading to settling tank, reuse of mine seepage water, no effluent discharged outside facility area, etc.</p> <p>*Noise- green belt, maintenance of trucks &amp; machines, etc.</p> <p>The capital investment on environmental management pla</p>	95.05	

Datima Underground Coal Mine (Rated Capacity: 0.360 MTPA, ML area: 807.91 ha) at Village Rai in Taluka Bhatgaon, Villages Datima			
S. No.	Point Raised During Public Hearing	Action Plan with physical target	Year 1
		n is envisaged as Rs.190.91 lakhs and recurring expenditure will be Rs. 225.11 lakhs/year as detailed in Table 10.2 & 10.3	
2	Protection of Wildlife and Forests	Wildlife Conservation and Management Plan has been prepared and approved by PCCF(WL) & CWLW	64.46
B	EDUCATION		
3	ITI Training	Support and Contribution to Government ITI, Ambikapur will be done	5
4	Higher education facility	Support for Scholarship to students and youth for higher education in 8 villages around project (8 villages- Rai, Datima, Kunda, Laxmanpur, Ghoghra, Kharsura, Kamalpur, Ganigikot), 10 students (with preference to land sellers)	4
5	Educational facilities	Monetary support to Schools, Government College & underprivileged students-Markers, stationary, books, etc. will be provided to underprivileged students in the schools of 8 vil	8

Datima Underground Coal Mine (Rated Capacity: 0.360 MTPA, ML area: 807.91 ha) at Village Rai in Taluka Bhatgaon, Villages Datima				
S. No.	Point Raised During Public Hearing	Action Plan with physical target		
			Year 1	Year 2
		lages (8 villages - Rai, Datima, Kumda, Laxmanpur, Ghoghra, Kharsura, Kamalpur, Gangikot)		
		Supporting meritorious students- Laptops to top three rankers in Chhattisgarh Board of Secondary Education of Class 10 of Govt. High School (8 villages - Rai, Datima, Kumda, Laxmanpur, Ghoghra, Kharsura, Kamalpur, Gangikot)	5	
		Support for Computer & English education in government school of Datima and Rai village	2	
C	PLANTATION			
6	Greenbelt & plantation in villages	Support to gram panchayat for plantation of 5000 trees in 5 years in nearby 5 villages (Rai, Datima, Kumda, Laxmanpur, Kharsura, Kamalpur) in and around the project area, at schools and medical centres, which will also help in cooling the atmosphere, act as carbon sink.	5	
7	Plantation along roads	Plantation along roads, 1000	8	

Datima Underground Coal Mine (Rated Capacity: 0.360 MTPA, ML area: 807.91 ha) at Village Rai in Taluka Bhatgaon, Villages Datima				
S. No.	Point Raised During Public Hearing	Action Plan with physical target	Year 1	
		saplings/ year ( Ramnagar, Khu rsura, Karonji)		
D	ROAD DEVELOPMENT			
8	Internal village road repairing	Support to gra m panchayat fo r village road s trengthening on need basis in 5 villages (Rai, D atima, Kumda, Laxmanpur, Kh arsura)	10	
9	Streetlight installation	Support to gra m panchayat fo r solar streetlig ht in 5 villages (Rai, Datima, K umda, Laxman pur, Khar sura) on need basis @20 nos./year	5	
E	MEDICAL & HEALTH			
10	Health/ medical centre and Health Camps and Mobile Ambulance	Support to Go vt. Hospitals a nd PHC's for reg ular & systematic health che ck-up progra m/ Camps for General, Eye & Dental Camp etc for villagers to monitor thei r overall healt h, identify any emerging healt h issues and pr ovide necessar y treatments o r preventive m easures, Support for me dical equipmen t & essential s upplies in sub centres and PH C's for distribut ion and Support for M	20	

Datima Underground Coal Mine (Rated Capacity: 0.360 MTPA, ML area: 807.91 ha) at Village Rai in Taluka Bhatgaon, Villages Datima				
S. No.	Point Raised During Public Hearing	Action Plan with physical target	Year 1	
		obile Ambulance (for facilitating primary health treatment) in nearby villages Target- 5 villages (Rai, Datima, Kumda, Laxmanpur, Kharsura)		
11	Hospital (super speciality) facility	Support and Contribution to District Administration, existing government hospital/ PHC/ Sub Centre's for installation of Sanitary Napkin Vending Machine in nearby School, Anganwadi & Gram Panchayat in consultation with local authorities Target- 5 villages (Rai, Datima, Kumda, Laxmanpur, Kharsura)	5	
F	LIVELIHOOD			
12	Local employment based on the qualification and experience.	Employment will be given to the locals as per their qualifications and experience. Local persons will be given preference, taking into consideration their experience, eligibility		Wages will be paid as per
13	Support to Women, Self Help Groups	Support to gram panchayat for setup of Self-help groups (SHGs), Livelihood support to women etc. and	4	

Datima Underground Coal Mine (Rated Capacity: 0.360 MTPA, ML area: 807.91 ha) at Village Rai in Taluka Bhatgaon, Villages Datima			
S. No.	Point Raised During Public Hearing	Action Plan with physical target	
		Year 1	
		er company's entrepreneurship development programs in Datima, Rai, Kumda & Laxmanpur village	
14	Skill development programmes	Support to gram panchayat for setting up of skill development training centre for income generating activity through mobile repair, Cycle/ 2-W/4-W repair, Sewing machines (10 nos./ year) for tailoring classes, Beauty Parlour training, computer training, vocational training 25 nos/ year for unemployed youth & women to promote self-employment	5
15	Support for improvement in agricultural practices	Support to gram panchayat to farmers for provision of sprayer pump (20 nos. / year) for local farmers through Local Panchayat	1.2
		Support to gram panchayat for agriculture training in every village of the core zone (Rai, Datima, Kumda and Laxmanpur) every year on different topics related to agriculture, soil health, crop yie	2

Datima Underground Coal Mine (Rated Capacity: 0.360 MTPA, ML area: 807.91 ha) at Village Rai in Taluka Bhatgaon, Villages Datima			
S. No.	Point Raised During Public Hearing	Action Plan with physical target	Year 1
		ld, etc	
16	Income after mine closure	Facilitation of employees to find employment in other mines/ projects/ businesses, develop skills as per the above listed programs and become self employed	
G	WATER		
17	Strengthening of the existing bathing ghat & cleaning of bathing pond, Reclamation and cleaning of village ponds	Support to gram panchayat for strengthening of the existing bathing ghat & cleaning of bathing pond, Reclamation and cleaning of village ponds will be done in villages Rai, Datima, Kuma, Laxmanpur, Ghoghra, Karsura, Kamalpur, Gangikot in consultation of local gram panchayat	8
	Water supply	Support to gram panchayat for Installation (& maintenance) of community RO at village Datima & Rai	4
18	Protection of natural drains and maintaining water quality	Grassing & plantation on slopes of natural drain under consultation of Gram Panchayat for 4 villages Rai, Datima, Kuma, Laxmanpur	4
19	Strengthening of Drainage	Support to gra	8.0

Datima Underground Coal Mine (Rated Capacity: 0.360 MTPA, ML area: 807.91 ha) at Village Rai in Taluka Bhatgaon, Villages Datima			
S. No.	Point Raised During Public Hearing	Action Plan with physical target	Year 1
		gram panchayat for strengthening of draining in nearby villages of Rai, Datima, Kumda, Laxmanpur, Ghoghra, Kharsura, Kamalpur, Gangikot	
		Regular monitoring of ground water level through piezometers at 2 locations	1.5
		Support to gram panchayat for supply of water through tanker during dry season and festivals in villages of mine lease area (Rai, Datima, Kumda, Laxmanpur, Ghoghra, Kharsura, Kamalpur, Gangikot)	2.0
		Support to gram panchayat for borewell/ handpumps in nearby Villages, Schools, community centre & cremation area etc.	10
		Water shed development activities in catchment and rain water harvesting in villages ( Rai, Datima, Kumda, Laxmanpur, Ghoghra, Kharsura, Kamalpur, Gangikot)	10
H	LAND		

Datima Underground Coal Mine (Rated Capacity: 0.360 MTPA, ML area: 807.91 ha) at Village Rai in Taluka Bhatgaon, Villages Datima			
S. No.	Point Raised During Public Hearing	Action Plan with physical target	Year 1
21	Land compensation & employment to land losers	Land is being purchased through direct negotiation at mutually agreed rates, terms and conditions. Preference will be given to land losers for employment as per eligibility and qualification	
22	Subsidence	Regular inspection of the land surface through drone over the area where UG working is taking place; filling, levelling and reclamation of any unforeseen incident of subsidence	1
I	SPORTS		
23	Development of sports activities	Supply through gram panchayat of sports material (football, bat, balls, wickets, etc.) in the school- 4 villages (Rai, Datima, Kumda, Laxmanpur)	1
		Support to gram panchayat of development of playground in 4 villages (Rai, Datima, Kumda, Laxmanpur)	4
J	COMMUNITY FACILITIES & FESTIVALS		
24	Construction of Rest shelter	Support to gram panchayat for renovation/ strengthening of rest shelter a	4

Datima Underground Coal Mine (Rated Capacity: 0.360 MTPA, ML area: 807.91 ha) at Village Rai in Taluka Bhatgaon, Villages Datima, Rai, Karsura, Laxmanpur, Ghoghra, Karsura, Kamalpur, Gangikot			
S. No.	Point Raised During Public Hearing	Action Plan with physical target	
		Year 1	
		t Bus Stand, Crematorium, Gram Panchayat Offices in near by 8 villages (Rai, Datima, Karsura, Laxmanpur, Ghoghra, Karsura, Kamalpur, Gangikot)	
25	Contribution towards local festivals of different religions	Support to gram panchayat for social development in 5 villages of Villages Rai, Datima, Karsura and Laxmanpur for festivals & cultural programmes	10
26	Strengthening of community hall with library	Support to gram panchayat for renovation/ strengthening of community hall with library- 1 no. each in Datima & Rai village	20
TOTAL INCLUDING EMP & WLCP (A+B+C+D+E+F+G+H+I+J)			336.21
TOTAL EXCLUDING EMP & WLCP			168.7
<p><b>Note: In addition</b> - Support for CSR activities, in a phase wise manner, as per the needs of the villagers after consultation with the Sarpanch of Karsura, Kamalpur, Gangikot; 2 to 5 km- Ramnagar, Dobripara, Katapara, Piprapara, Nawapara, Khursiya, Batara, Kanakpura, Chaurdari, Karsura, 2% of average profit of previous 3 years as per T</p>			
<p><b>36.3.8: Project Cost and EMP Cost:</b> The capital cost of the project is Rs. 250 crores. Capital cost for environmental protection measures is proposed as Rs. 201.91 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 94.11 Lakhs. The employment generation from the proposed project is 358 persons.</p>			

S. No.	Description of item	Existing (In Lakhs)		Proposed (In Lakhs)	
		Capital Cost	Recurring Cost	Capital Cost	Recurring Cost
(i)	Air pollution control	-	-	30.00	41.75
(ii)	Water pollution control	-	-	21.70	2.87
(iii)	Noise pollution Management	-	-	1.0	1.0
(iv)	Environment monitoring and Management	-	-	60.75	15.43
(v)	Reclamation	-	-	0.00	0.20
(vi)	Occupational Health	-	-	30.74	8.63
(vii)	Green Belt (Ha) & Plantation Development	-	-	54.12	12.18
(viii)	Others (Expert advice, other studies, interest, overheads, depreciation, energy, R&M, etc.)	-	-	3.60	12.05
<b>Total</b>				<b>201.91</b>	<b>94.11</b>

### 36.3.9: Details of Solid and Hazardous Waste:

S. No.	Type of Waste	Source	Quantity (TP A)	Mode of Treatment	Disposal
1	Sludge	from STP	1.6	Use as manure in greenbelt & plantation	Truck
2	Domestic Solid Waste	Canteen	11.8	<ul style="list-style-type: none"> <li>Waste will be segregated,</li> <li>dry recyclable waste will be sold to recycling vendors</li> <li>wet organic waste shall be composted and used as manure.</li> </ul>	Truck
3	Plastic waste	Packaging waste	1.2	Given to recycler	Truck
4	E-waste	Administration building	0.01	Given to e-waste dealer	Truck
5	Lead acid Batteries	Vehicles, UPS, machines & others	0.5	Buy back by supplier	Truck
6	Bio-medical waste	First aid centre	0.05	To authorised BMW management agency	Truck

S. No.	Type of Waste	Source	Quantity (TP A)	Mode of Treatment	Disposal
7	Hazardous wastes: Used oil/ spent oil	Machines, engines, transformers, DG maintenance, etc.	2.5	Will be handed over to authorized CPCB/ SPCB authorized recycling vendors.	Truck
8	Other wastes: Redundant machinery & equipment	Mines	40	will be sold to recycler	Truck
9	Settled Silt and sludge	Settling pond	Variable	Will be periodically removed and disposed in the designated dump area within the UG facility area.	Truck
10	Stony waste	Driving of inclines	13,392	Stored in 0.2 ha dump area. Reused, to the extent possible, for levelling, construction of roads, raising plinths and constructing platforms around incline mouth, shaft, etc.	Truck
11	Topsoil	Disturbed area in surface Facility Area	7300	100% of the topsoil will be simultaneously reused in the proposed greenbelt/ plantation area of 13.53 hectare, hence, no topsoil storage area is proposed.	Truck

**36.3.10: Power Requirement and details of diversion of Hi-tension/ Transmission line:** The power requirement for the said project is 5 MVA and the same will be sourced from the nearest sub-station of CGPCL at Bisrampur sub-station connected to the local sub-station. Back up DG set 2X500 KVA is also proposed. PP submitted that no electricity line is proposed to be diverted.

**36.3.11: Plantation:** Proposed greenbelt will be developed in 13.53 ha which is about 84.35% of facility area and 1.67 % of the total ML area. A 150 m wide greenbelt around facility towards habitation and forest area, consisting of at least 3 tiers around underground facility area 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. Total no. of 33,825 saplings will be planted and nurtured in 13.53 hectares in 2 years. In addition to this plantation/ grassing shall be carried out on slope of waste dump.

**36.3.12: Rehabilitation & Resettlement issues:** The mining block falls within the revenue land of 5 villages: Rai, Kumda, Laxmanpur, Datima, and Khursura. Habitations of the first four villages are located within the proposed Mining Lease (ML) area, while Khursura has no habitation within the ML. No displacement of houses is proposed, therefore, no resettlement will be involved in the said project.

**36.3.13: 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 Evar Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

**36.3.14: Undertaking/ Affidavit:** PP vide an affidavit submitted the following:

The Datima Underground Coal Mine project with production capacity of 0.36 million tonnes per annum (MTPA) at villages Rai in Taluka Bhatgaon, villages Datima & Kharsura in Taluka Surajpur, villages Kumda & Laxmanpur in Taluka Latori, District Surajpur, Chhattisgarh is allotted to Shree Cement Ltd. by Ministry of Coal vide vesting order no.: NA-104/12/2023-NA dated 08.06.2023. There is no construction/mining done at the site, as it is proposed Greenfield mining project applied for approval of EC.

There is no litigation is pending on the project or land either at Hon'ble NGT or any other court of Law.

The total mining lease area of Datima Underground Coal Mine project is 807.91 ha, which includes 245.83 Ha of forest land and 562.08 Ha of Govt. and Private Land. No Govt. land proposed to be acquired for the operation of the aforesaid mine project. Although 245.83 hectares forest land is falling within the lease area, but there will not be any disturbance to forest land for project operations. However, a forest diversion proposal has been submitted via the Parivesh portal under application number FP/CG/MIN/QRY/456133/2023, which is at final stage of stage 1 FC approval.

Since this is a proposed Greenfield underground mining project, and only 16.04 ha land shall be required for development & construction of surface Infrastructure facilities. Out of this, 9.67 ha of land has been purchased and is in possession of the company. Remaining 6.37 ha is under the process of acquisition. The land acquisition has been carried out through direct negotiations with landowners on a willing buyer-willing seller basis, at mutually agreed terms and conditions. There is no R & R issue in the acquired land and proposed to be acquired land.

There is no difference in the documents submitted i.e., Common Application Form, Form-1(Form-1 Part A, B & C on Parivesh 2.0), EIA/EMP report and presentation being made to the EAC.

The reason for submitting the project at MoEF&CC is that the proposed project falls under "Category A" as per EIA notification 2006 as amended thereof. The proposal is being submitted for the Grant of Environment Clearance from MoEF&CC.

Further PP submitted a declaration, undertaking that the information contained in this undertaking is true and correct to the best of my knowledge and belief. Any misrepresentation or suppression of facts shall make me liable for legal consequences under applicable laws.

Further, PP also submitted an undertaking wherein it is mentioned that,

1. The Shree Cement Limited is proposing "Datima Underground Coal Mining" for production capacity of 0.36 million TPA (Normative) in the Mining Lease Area of 807.91 ha. at villages Rai in Taluka Bhatgaon, villages Datima & Kharsura in Taluka Surajpur, villages Kumda & Laxmanpur in Taluka Latori, District Surajpur, Chhattisgarh.
2. That there is no construction done at the site till date.
3. There is no litigation pending against the project and/or any direction/ order passed by any Court of Law against the project and/or land in which the project is proposed and the unit has not received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts and that for any such litigation whatsoever, the sole responsibilities will be borne by the company.
4. There is no violation with respect to Environment (Protection) Act 1986 and rules thereunder.

**36.3.15: Written submission:** PP submitted the revised public hearing action plan, as per the suggestion of the committee and the CGWA NoC obtained for the said project vide letter no. NOC/MIN/CG/2025/8187 dated 20.11.2025.

### 3.3.3. Deliberations by the committee in previous meetings

N/A

### 3.3.4. Deliberations by the EAC in current meetings

#### Deliberations and Observation of the Committee:

##### 36.3.16: The Committee noted the following:

1. The instant proposal is for grant of environment clearance to M/s. Shree Cement Limited for Datima Underground Coal Mine (area: 807.91 Ha having production capacity 0.36 MTPA) located at villages: Rai, Datima, Kharsura, Kumda and Laxmanpur; District: Surajpur; State: Chhattisgarh.

#### Recommendations of the Committee:

36.3.17: In view of the foregoing and after the detailed deliberation, the Committee **recommended** the instant proposal for grant of Environment Clearance subject to uploading of written submission on PARIVESH Portal under the provisions of EIA Notification, 2006 subject to the stipulation of following specific conditions and general conditions based on project specific requirements:

### 3.3.5. Recommendation of EAC

Recommended (Subject to submission of requisite information/ documents)

### 3.3.6. Details of Environment Conditions

#### 3.3.6.1. Specific

Specific Conditions	
1.	Project proponent shall submit the Stage – I Forest Clearance for diversion of forestland of 245.83 Ha involved in the project prior to grant of Environment Clearance as per MoEF&CC O.M. dated 09/09/2011 and its subsequent amendment.
2.	Project proponent shall obtain the comments from the concerned State Pollution Control Board, Chhattisgarh, within 30 days from the date of grant of EC in accordance to the provisions of Ministry's OM dated 14.01.2025, 08.10.2025 and 25.11.2025.
3.	As committed, no depillaring under the UG mining area shall be done.
4.	Project proponent shall provide facilities such as solar lights, RO plants, provision for sanitary water in the schools present within the ML area. Thick plantation shall be carried out around these schools with the native species within 2 years from the date of grant of EC by planting saplings of not less than 4 feet height.
5.	The coal transportation shall be done by tarpaulin covered trucks and plantation with the native species (of height not less than 4 feet) shall be done on both the side of the entire transportation road. Further PP shall also explore the feasibility to deploy EV dumpers for transportation of coal. PP 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.

6.	Project proponent shall fully compensate for the damage to property, infrastructure, or community assets which may arise due to subsidence, as committed.
7.	The budget proposed for PH is Rs. 1142.257 Lakhs. The budget proposed shall be kept in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 5 years from the date of grant of EC. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six-monthly compliance report.
8.	PP shall implement the protective measure proposed in Environment Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs 209.91 Lakhs (capital cost) and Rs 94.11 Lakhs/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.
9.	Project proponent shall deposit the Rs. 173.008 lakh as provisioned for the implementation of wildlife conservation plan with the concerned authority within 1 year from the date of grant of EC and shall ensure the implementation of the WLCP. Compliance of the same shall be submitted along with the six-monthly compliance report.
10.	PP shall pay to farmers of agricultural land if there is any loss due to pollution found by concerned District Commissioner as per extent rules or norms. Suitable measures for enrichment of nitrogen in the soil will be taken up for improving soil fertility and effective steps will be taken to support the farming community in enhancing the production.
11.	No waste shall be dumped on the forestland. PP shall use the waste generated during the installation of mine shaft and mine incline in infrastructure development.

### 3.3.6.2. Standard

1(a)	<b>Mining of minerals</b>
<b>Statutory Conditions</b>	
1.	The Environmental Clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project.
2.	Mining shall be carried out as per the approved Mining Plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant provisions under CMR, 2017 and circulars issued by Directorate General of Mines Safety (DGMS) from time to time.
3.	
4.	The project proponent shall obtain prior approval / clearance from the National Board for Wildlife, if applicable.
5.	In case of the presence of Schedule-I species in the study area, the project proponent shall prepare a Conservation Plan & Wildlife Management Plan which shall be approved by the Chief Wildlife Warden. The recommendations of the approved Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of Schedule-I species in the study area).

6.	The project proponent shall obtain Consent to Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Pollution Control Committee.
7.	The project proponent shall obtain the necessary permission from the Central Ground Water Authority for groundwater abstraction & usage prior to commencement of mining. The proponent shall also obtain necessary permissions for drawl / usage of surface water, if applicable, prior to commencement of mining.
8.	Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016 and subsequent amendments.
9.	In case of diversion of water body / road / railway lines / transmission line, approval for the same from competent authority shall be submitted, as applicable.
10.	Permission of power supply to be taken from the concerned authority for meeting power demand of the project site.
11.	The annual peak production at any given time shall not exceed the limit as prescribed in the EC.
12.	Validity of EC shall be as per life of the mine as mentioned in EC letter or 30 years, whichever is earlier, as per EIA Notification, 2006 and its amendments therein.
13.	In case of change in mining method from UG to OC, prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC) shall be obtained.

#### **Air Quality Mitigation Measures and Monitoring**

1.	Coal handling points like stockyards / sidings shall be equipped with effective control measures like water sprinkling, fog cannons, wind barriers, vertical greenery systems.
2.	Transportation of coal, to the extent if permitted by road, shall be carried out by covered trucks. Effective control measures such as regular water sprinkling/rain gun/ fog cannons /mist sprinkling, etc., shall be installed in critical areas like coal transport roads, loading/unloading and transfer points.
3.	Transportation of the coal through the existing road passing through any village shall be avoided. In such cases, it is proposed to construct a 'bypass' road, such that the impact of sound, dust and accidents could be appropriately mitigated. Major approach roads shall be black topped / made with concrete and properly maintained.
4.	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in coal transportation shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres. The proponent must strive to use electric vehicles / eco-friendly fuel based vehicles as far as possible.
5.	In order to prevent particulates getting airborne and in order to mitigate dust concentrations, proper housekeeping shall be maintained by the project.
6.	
7.	It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.

8.	For ambient air quality monitoring, at least 4 sampling sites shall be established (of which 1 shall be situated in the upwind direction, 1 in core zone and balance 2 shall be located in the buffer zone - in downwind direction and near receptors) for monitoring of pollutants. The frequency of monitoring for core zone shall be as per Coal Mine Standards GSR 742 (E) dated 25.09.2000 and for buffer zone shall be as per NAAQS, 2009. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. The monitoring reports shall be submitted to Regional Office of MoEF&CC and SPCB/CPCB as a part of the six monthly compliance report.
9.	The project shall install an automatic weather monitoring station in the core zone. At least 2 online ambient air quality monitoring stations (CAAQMS) for monitoring of PM10, PM2.5, SO <sub>2</sub> , NO <sub>x</sub> shall be installed - one in core zone and one in buffer zone, in consultation with the SPCB. The data from the CAAQMS shall be connected to CPCB server as well as SPCB server. The calibration of CAAQMS installed shall be carried out as per the calibration protocol for CAAQMS system specified by CPCB and records shall be maintained.

#### **Water Quality Mitigation Measures and Monitoring**

1.	The water pumped out from the mine (seepage water / mine effluent), after treatment, shall be utilized for industrial purpose viz. dust suppression on roads, plantation, and for domestic uses, etc. Balance water after treatment, if any, shall be discharged into surrounding water bodies with prior permission from concerned SPCBs/PCCs.
2.	Industrial wastewater from workshop and/or coal handling plant, if any, shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time.
3.	Sewage treatment plant of adequate capacity shall be installed for treatment of domestic wastewater. The treated water, after conforming to the prescribed norms shall be reused.
4.	Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low-lying areas including coal stockyards, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump capacity shall also provide adequate retention period to allow proper settling of silt material of the surface runoff. The garland drains shall be regularly desilted, particularly after monsoon and maintained properly.
5.	Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side, stabilized with plantation so as to withstand the peak water pressure preventing any chance of mine inundation.
6.	In case of diversion / straightening of any river / nallah, the same shall be done only after approval is granted by Water Resources Department / Irrigation Department / approved regulatory agency of the concerned state. Mitigation measures or management plan proposed under EIA/EMP as well as regulatory agencies as a part of the diversion plan shall be duly complied with.
7.	Project proponent shall provide a rain water-harvesting pond in ML area in the core zone.
8.	The effluent discharge (mine water, workshop effluent, CHP wastewater (if applicable), STP if applicable) - shall be monitored in terms of the parameters and frequency notified under the Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. The effluent samples must include raw effluent (i.e. upstream of treatment facility) as well as treated water (i.e. outlet stream from treatment facility). The monitoring reports shall be submitted to Regional Office of MoEF&CC and SPCB/CPCB as a part of the six monthly

	compliance report.
9.	Project proponent shall install ground water monitoring piezometers prior to commencement of production in line with NOC issued by CGWA. The water level will be monitored for all piezometers and the record will be shared with the Regional Office (CGWB).
<b>Noise Prevention and Monitoring</b>	
1.	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work zone environment. Operational safety norms for worker safety as prescribed by DGMS for UG coal mines must be adhered to.
2.	In case of installation of conveyors, DG sets, etc., adequate noise attenuation measures including acoustic barriers must be installed to control noise pollution.
3.	The noise level monitoring shall be carried out as per the prescribed DGMS guidelines in the core zone to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the RO of MoEF&CC on six-monthly basis.
4.	Ambient noise levels shall be monitored at strategic locations (at least 4 locations of which 2 to be located within the core zone at coal loading point and workshop respectively and remaining 2 to be located in buffer zones near receptors and along coal transportation route). The monitoring reports shall be submitted to Regional Office of MoEF&CC and SPCB/CPCB as a part of the six monthly compliance report.
<b>Risk and subsidence</b>	
1.	Project proponent shall include adequate provisions w.r.t risk management to ensure safety of personnel engaged in mining operations and work zone environment must be maintained in conformity of relevant DGMS norms.
2.	Regular monitoring of subsidence movement on the surface over and around the working areas and its impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings shall be continued beyond post closure period as specified in the Mine Plan/Mine Closure Plan Guidelines issued by MoC from time to time. In case of observation of any high rate of subsidence beyond the limit prescribed, appropriate effective mitigation measures shall be taken to avoid loss of life and materials. Cracks should be effectively plugged in with ballast and clay soil/suitable material.
3.	A separate team for subsidence monitoring and surface mitigation measures shall be created at project level and continuous monitoring & implementation of mitigation measures be carried out.
4.	Thorough inspection of the mine lease area for any cracks developed at the surface due to mining activities below ground shall be carried out to prevent inrush of water in the mine. Native tree species shall be selected and planted over areas affected by subsidence.
<b>Land Reclamation</b>	
1.	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change (MoEF&CC) and shall be submitted to MoEF&CC/Regional Office (RO).
2.	Post-mining land be rendered usable as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 31st January, 2025 and subsequent amendments. The post closure

	land form must be safe & stable and should incorporate repurposing activities like renewables, energy efficiency etc. as feasible.
3.	The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.
4.	Project proponent shall implementation 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.
5.	
6.	

#### Public Hearing and Human Health Issues

1.	Implementation of the time bound action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the time bound action plan submitted with budgetary provisions during the public hearing.
2.	Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable. Adequate facility of drinking water, plantation and other social amenities should be provided to established R&R villages.
3.	The work zone environment shall be maintained as prescribed under Coal Mines Regulations, 2017 & DGMS (complying with provisions regarding illumination, temperature, humidity, dust, noise, etc.)
4.	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of The Mines Act, 1952 and rules made thereunder and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as per Clause No. 123, 124 & 125 of Coal Mines Regulations, 2017.
5.	Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
6.	Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.
7.	Effective arrangement shall be made to provide and maintain sufficient supply of drinking water at suitable points, for all the persons employed.
8.	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z11013/5712014-IA.I1 (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.

#### Others

1. The project shall comply with the recommendations of the additional studies like Traffic Study,

	Biodiversity Management Plan, Carbon Footprint Assessment, as applicable.
2.	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 Ministry's Notification published by the Ministry on 12/08/2021.
3.	The project shall align its activities towards some SDGs and submit the details in its six-monthly compliance report on routine basis.
4.	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.
5.	Post closure monitoring of air quality, water, land & soil etc. shall be carried out by NABL accredited laboratories and analysed with EMP measures at regular interval. A suitable recommendation in this regard, shall be furnished to RO, MoEF&CC for compliance. The data used for analysis shall be obtained from routine environmental monitoring, continuous air / water QMS, etc.
6.	Third Party Environmental Audit shall be undertaken once in every three years through reputed institutes or scientific agencies.

#### **Corporate Environment Policy**

1.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for 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. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions to shareholders/stake-holders
2.	A separate Environmental Cell both at the project and company head quarter level, with adequate qualified personnel shall be set up under the control of senior executive, who will directly report to the Head of the organization.
3.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

#### **Miscellaneous**

1.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days of receipt of EC and in addition, this shall also be displayed in the project proponent's website permanently.
2.	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 has to display the same for 30 days from the date of receipt.
3.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.

4.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at Parivesh portal.
5.	The monitoring data w.r.t environmental parameters shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-IA.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
6.	The project proponent shall submit the Environmental Statement for each financial year in Form-V to the concerned State Pollution Control Board, as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
7.	The project authorities shall inform to the Regional Office of the MoEFCC regarding commencement of mining operations.
8.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
9.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
10.	No further expansion or modifications in the mine shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
11.	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.
12.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
13.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company, in a time bound manner, shall implement these conditions.
14.	The Regional Office of this Ministry 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
15.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

### 3.4. Agenda Item No 4:

#### 3.4.1. Details of the proposal

**Rampur Batura Opencast project by South Eastern Coalfields Limited located at SHAHDOL,MADHYA PRADESH**

Proposal For		Fresh ToR	
Proposal No	File No	Submission Date	Activity Sub-Activity (Schedule Item)
<a href="#">IA/MP/CMIN/553294/2025</a>	J-11015/65/2016-IA.II(M)	21/11/2025	Mining of minerals Coal Mining - Opencast (1(a))

### 3.4.2. Project Salient Features

#### Agenda Item No. 36.4:

**36.4:** Rampur Batura Opencast Project (increase in production capacity from 2.0 MTPA to 6.0 MTPA with increase in mine lease area from 942.873 ha to 1806.053 ha), by **M/s South Eastern Coalfields Limited**, located in Villages: Rampur, Beliya, Antariya, Bichhiya, Khairbana of Shahdol district and Khand, Kodaili of **Anuppur district, Madhya Pradesh** – Prescribing of Terms of Reference (ToR) – reg.

[Online Proposal No. IA/MP/CMIN/553294/2025; Consultant: CMPDI – NABET/EIA/25-28/RA 0412 valid up to 08.04.2028]

**36.4.1:** M/s South Eastern Coalfields Limited has made an online application vide proposal no. IA/MP/CMIN/553294/2025; dated 09.10.2025 along with the application in prescribed format (Form-I), copy of pre-feasibility report, Mine Plan and Mine Closure Plan 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. The project does not attract general conditions of EIA Notification, 2006.

Rampur Batura Opencast Project is an expansion of the Batura Opencast coal mining project (EC vide F. No. J-11015/65/2016-IA.II(M) dated 01.02.2021) proposed for increase in ML area from 942.873 ha to 1806.053 ha with increase in production capacity from 2.0 MTPA to 6.0 MTPA, and is located in villages: Rampur, Beliya, Antariya, Bichhiya, Khairbana of Shahdol district and Khand, Kodaili of Anuppur district, Madhya Pradesh.

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

#### **36.4.2: Previous approvals in chronological order:**

				Date of Issuance	Status of
Year	EC/ CTO sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC/CTO sanctioned capacity	Remarks	
2022-23	2	0.051	0	Mines started its coal production since 17.03.2023	
2023-24	2	1.216	0		
2024-25	2	1.701	0		

Year	EC/ CTO sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC/CTO sanctioned capacity	Remarks
2025-26 (till 31.10.2025)	2.0	1.020	0	

**36.4.3: Environmental Site Settings:** The mine lease area is covered under Survey of India Topo sheet no F44D12/64E12 and is bounded by the geographical coordinates ranging from latitude  $23^{\circ}12'40''$  to  $23^{\circ}14'10''$  N and Longitude  $81^{\circ}40'20''$  to  $81^{\circ}43'20''$  E.

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 81.494 ha of forest land, out of which Stage-II forest clearance has been obtained for 76.84 ha forest land vide F.No. 8-33/2015-FC dated 16.07.2019 and for 4.654 Ha of forestland application for Stage - I forest clearance vide proposal no. FP/MP/MIN/18959/2016 on 25.08.2022 has been submitted. PP submitted that the only 1.1 Ha forest land out of 76.84 Ha FL involved in existing EC has been broken during mining activities, after stage 2 FC and other necessary approvals. PP submitted that there is no violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

**Nature of land involved:**

Nature of land involved	Existing area (Ha)	Additional area proposed (Ha)	Total area after expansion (Ha)
Non-Forest Land	866.033	858.526	1724.559
Forest Land	76.84	4.654	81.494
<b>Total</b>	<b>942.873</b>	<b>863.18</b>	<b>1806.053</b>

**Protected Area:** The ML area 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.

Further PP submitted that there is presences of Schedule - I species (namely: Python, Rat snake, Sloth Bear, Jackal etc). A Wildlife Conservation Plan (WCP) is yet to be prepared.

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

e-Payments	

**Other Sensitive Receptors:**

	Particulars		
	Particulars	Distance	Direction
	Rampur Village	Within the mine boundary	-----
	Beliya Village	Within the mine boundary	-----
	Antariya Village	Within the mine boundary	-----

	<table border="1"> <thead> <tr> <th>Particulars</th><th>Distance</th><th>Direction</th></tr> </thead> <tbody> <tr> <td>Bichhiya Village</td><td>Within the mine boundary</td><td>-----</td></tr> <tr> <td>Khairbana Village</td><td>Within the mine boundary</td><td>-----</td></tr> <tr> <td>Khanda Village</td><td>Within the mine boundary</td><td>-----</td></tr> <tr> <td>Kodaili Village</td><td>0.5</td><td>SW</td></tr> </tbody> </table> <p><b>Note:</b> There are 91 nos. villages in buffer zone of study area.</p>				Particulars	Distance	Direction	Bichhiya Village	Within the mine boundary	-----	Khairbana Village	Within the mine boundary	-----	Khanda Village	Within the mine boundary	-----	Kodaili Village	0.5	SW
Particulars	Distance	Direction																	
Bichhiya Village	Within the mine boundary	-----																	
Khairbana Village	Within the mine boundary	-----																	
Khanda Village	Within the mine boundary	-----																	
Kodaili Village	0.5	SW																	
Particulars	Distance	Direction																	
Govt. primary school (Beliya Village)	Within the mine boundary	-----																	
Govt. primary school (Kudara tola Village)	Within the mine boundary	-----																	
Govt. primary school Girls (Bazar tola Village)	Within the mine boundary	-----																	
	Govt. primary school (Ambedkar Nagar Village)	Within the mine boundary	-----																
	Govt. primary school (Rampur Village)	Within the mine boundary	-----																
	Middle school (Rampur Village)	Within the mine boundary	-----																
	Higher Secondary School (Rampur Village)	Within the mine boundary	-----																
	UEGS (Geedha Tola)	Within the mine boundary	-----																
	Primary school (Bhulan Tola)	Within the mine boundary	-----																
	Primary School (Khairwana)	Within the mine boundary	-----																
	Primary school (Tagra tola Village)	2 km	East																
	Higher Secondary School (Rampur Village)	1 km	South																
	Govt Primary School (Padariya Village)	3 km	East																
	Govt primary School (Harridih Village)	2 km	North																
	Govt primary School (Bairiha Village)	1 km	East																
	Govt primary School (Majhouli Village)	3.5 km	East																
	Govt primary School (Jogibandh Village)	2.5 km	North																
	Govt primary School (Khamroundh Village)	3.5 km	Northwest																
	Govt primary School (Tilmaniha tola, Batura Village)	3 km	West																
	Govt primary School (Jhiriya Village)	4 km	East																
	Govt primary School (Batura Village)	3.5 km	West																
	Govt Middle school (Padariya Village)	3.7 km	East																
	Govt Middle school (Khamroundh Village)	3.0 km	Northwest																
	Govt High school (Khamroundh Village)	4.0 km	Northwest																
	Govt High school (Majhouli Village)	3.0 km	East																
	Govt. HS Khamroundh	2.06 km	Northwest																
	Govt Primary School Tilmaniha TOLA, Batura	2.89 km	East																
	Middle School Chaka	5.14 km	Northwest																
	UEGS Chachang Tola	3.81 km	Southwest																
	Primary school (Tagra tola Village)	2 km	East																
	Higher Secondary School (Rampur Village)	1 km	South																
	Govt Primary School (Padariya Village)	3 km	East																
	Govt primary School (Harridih Village)	2 km	North																
	Govt primary School (Bairiha Village)	1 km	East																
	Govt primary School (Majhouli Village)	3.5 km	East																
	Govt primary School (Jogibandh Village)	2.5 km	North																
	Govt primary School (Khamroundh Village)	3.5 km	Northwest																
	Govt primary School (Tilmaniha tola, Batura Village)	3 km	West																

Particulars	Distance	Direction
Govt. primary school (Beliya Village)	Within the mine boundary	-----
Govt. primary school (Kudara tola Village)	Within the mine boundary	-----
Govt primary School (Jhiriya Village)	4 km	East
Govt primary School (Batura Village)	3.5 km	West
Govt Middle school (Padariya Village)	3.7 km	East
Govt Middle school (Khamroundh Village)	3.0 km	Northwest
Govt High school (Khamroundh Village)	4.0 km	Northwest
Govt High school (Majhouli Village)	3.0 km	East
Govt. HS Khamroundh	2.06 km	Northwest
Middle School Bargava	6.92 km	East
Govt Primary School Tilmaniha TOLA, Batu ra	2.89 km	East
Middle School Chaka	5.14 km	Northwest
UEGS Chachang Tola	3.81 km	Southwest
Middle School Khada	1.4 km	South
Primary School Barbashpur	4.96 km	Southeast
Middle School Girwa	2.59 km	North
Govt. HSS Chachai	4.72 km	Southwest
Middle School Padariya	4.58 km	East
Govt. HS Majhouli	3.75 km	Northeast
Middle School Bholgarh	4.99 km	Southeast
Primary School Mahdevara Tola	1.75 km	Northeast
Middle School Batura	3.78 km	Southwest
Primary School Bakeli	2.75 km	Northwest
UEGS Karahiwah	7.51 km	Southwest
Primary School Jarwahana Tola	0.16 km	Northwest
Primary School Dogariya Tola	4.92 km	Northeast
Govt. HSS Khanda	1.4 km	South
Middle School Batura	3.78 km	Southwest
Primary School Bakeli	2.75 km	Northwest
Primary School Jarwahana Tola	0.16 km	Northwest
Primary School Dogariya Tola	4.92 km	Northeast
Govt. HSS Khanda	1.4 km	South
Primary School Dogariya Tola	4.92 km	Northeast
Govt. HSS Khanda	1.4 km	South

There are 154 nos. of school within mine lease area and 10 km buffer zone.

Particulars	Distance	Direction
Katna nallah	Within the mine boundary	South
Jamuniya Nallah.	Within the mine boundary	West
Son River (HFL-472.06 m)	2 km- 3 km	Southwest

	<table border="1"> <thead> <tr> <th>Particulars</th><th>Distance</th><th>Direction</th></tr> </thead> <tbody> <tr> <td>Bairih- PF</td><td>Within and adjacent to mine boundary</td><td>East</td></tr> <tr> <td>Rampur PF</td><td>02-05 km</td><td>Southeast</td></tr> <tr> <td>Haridini-PF</td><td>03 km</td><td>North</td></tr> <tr> <td>Mauhari-RF</td><td>05 km</td><td>Southeast</td></tr> <tr> <td>Majhauli PF</td><td>05 km</td><td>East</td></tr> </tbody> </table>	Particulars	Distance	Direction	Bairih- PF	Within and adjacent to mine boundary	East	Rampur PF	02-05 km	Southeast	Haridini-PF	03 km	North	Mauhari-RF	05 km	Southeast	Majhauli PF	05 km	East												
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- i. Method of mining proposed to be carried out is opencast mining using combined mining system deploying shovel dumper combination and Surface Miner.
- ii. Total geological reserve reported in the mine lease/block area is 73.534 MT with balance mineable reserve as on 01.04.2025 is 62.53 MT. Extracted so far 2.967 MT. Percent of extraction is 89 %.
- iii. There are 5 nos. seams workable (III, L1, II, L2, and I). Gradient of the seam varies from 1° to 5°. Average Grade of coal is G 6. Stripping ratio 9.66 cum/tonne.
- iv. Life of mine is 11 years as on 01.04.2025.
- v. The existing and proposed final dump configuration are as follows

Dump No.	Area (Ha)	Height	Quantity (Mcum)	Type (Internal/ External)
1.	31.07	60 m	7.89	External
2.	1269.672	60 m	613.569	Internal

- vi. Details of topsoil dump: Quantity of topsoil to be generated is 4.611 Mcum, which will be stored separately over an area of 2.61 Ha. Top soil will be utilized for reclamation of external & internal dump & greenbelt development and other land for vegetation. No. of topsoil dump is 01, which is temporary dump.

- vii. Details of land use pattern:

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

S. No.	Land Use	Within MLArea (Ha)	Outside MLArea (Ha)	Total (Ha)
1	Agricultural land	1380.331	0	1380.331
2	Forest Land	81.494	0	81.494
3	Waste Land	61.68	0	61.68
4	Grazing Land	3.03	0	3.03
5	Surface water bodies	39.52	0	39.52
6	Settlements	50	0	50
7	Other (govt. land)	189.998		189.998
<b>Total</b>		<b>1806.053</b>	<b>0</b>	<b>1806.053</b>

**b. Post-mining land use pattern:**

S. N o.	Particulars	Area in ha	Reclaimed	Un-Reclaimed
			Area (Ha)	Area (Ha)
1	Excavation/ quarry area			
	(a) Backfilled Areas	1269.672	1269.672	0
	(b) Excavated Void	267.31	0	267.31
2	External Dump	31.07	31.07	0
3	Green Belt and Safety Zone	149.429	0	149.429*
4	Mine infrastructures including road, magazine, CHP/ Silo, colony and land for Nala diversion	88.572	41.972	46.6
<b>Total (in Ha.)</b>		<b>1806.053</b>	<b>1342.714</b>	<b>463.339</b>

\*26.6 ha will be developed as green belt of 7.5m width and undisturbed land will be used for gap plantation/ diverted nallah/ HT line and other gainful utilization.

**viii. Details of transportation:**

**a) In-Pit:**

Description	Mode	Lead
<b>Existing</b>		
From coal face to coal sto	Through rear dumpers and trucks -Road	2 km within ML area

Description	Mode	Lead
Stockyard		
<b>Proposed</b>		
From coal face to coal yard	Through rear dumpers and trucks -Road	0.5 km -2.9 km within ML area
From coal face to in pit belt coal receiving station	Through rear dumpers and trucks -Road	0 km -3.0 km within ML area
Description	Mode	Lead
<b>Existing</b>		
From coal stock yard to Burhar Railway siding	Through tippers- Road	27 km outside ML area
<b>Proposed</b>		
From TRS to Silo	Through Belt conveyor	6 km within ML area
Description	Mode	Capacity
<b>Existing</b>		
Siding to Wagon	Pay loader	
<b>Proposed</b>		
From coal stockyard to consumers	Tarpaulin covered trucks	2 MT
By Rapid loading system to railway wagons	Through silo (FMC)	4 MT

d) Quantity being transported by rail/ road: in FY 2024-25 – By Rail 0.483 MT and Road – 1.292 MT. Proposed dispatch by rail 4 MTPA and Road 2 MTPA

e) Changes proposed in future in the method of mining: Proposed mode of coal transportation after commissioning of CHP silo is as follows. The CHP silo will be commissioned by 31.10.2027 and 31.12.2028 respectively.

Mode	Proposed quantity dispatched (MT)	Maximum distance to consumers (km)
Rail	4.0	1200
Road	2.0	500*

**36.4.5: Baseline Data:** Baseline Data collected for period pre monsoon season (April 2025 to

June 2025).

	<p><b>Industrial zone:</b> 52.7 to 64.1 dB(A) for the daytime and 43.1 to 57 dB(A) for the Night time.</p> <p><b>Residential zone:</b></p>
	<p><b>Ground water quality at 08 locations</b></p> <p><b>Core zone</b> pH: 7.12 to 7.24, Total Hardness:308 to 350 mg/l, Chlorides: 117.46 to 127.96 mg/l, TDS: 558 to 617 mg/l, Heavy metals (As) &lt; 0.005 mg/l, Heavy metals (Se) &lt; 0.005 mg/l</p> <p><b>Buffer zone</b> pH: 7.15 to 7.55, Total Hardness:54 to 298 mg/l, Chlorides: 24.99 to 88.97 mg/l, TDS: 97 to 468 mg/l, Heavy metals (As) &lt; 0.005 mg/l, Heavy metals (Se) &lt; 0.005 mg/l</p>
	<p><b>Surface Water monitoring was done at 08 locations:</b></p> <p><b>Core zone</b> pH: 6.82 to 7.81, DO: 6.2 to 7.8 mg/l, BOD :2.5 to 3.73 mg/l, Heavy metals (As) &lt; 0.005 mg/l</p> <p><b>Buffer zone</b> pH: 6.85 to 7.54, DO: 6.1 to 7.5 mg/l, BOD :2.1 to 3.1, mg/l, Heavy metals (As) &lt; 0.005 mg/l</p>
	Traffic study will be conducted and submitted during the submission of Final EIA/EMP.
	Flora & Fauna Study was conducted. There are Schedule-I species in the study area like Python, Rat snake, Sloth Bear, Jackal etc. are found in study area. The Wildlife Conservation Plan (WLCP) is proposed to be prepared through reputed institute.

**36.4.6: Details of Water Requirement:** PP submitted that the total water requirement for the said project is 1970 KLD (1270 KLD for industrial water requirement and 700 KLD for proposed residential colony). Source of water shall be Mine sump water for which Ground water NoC for the same has been obtained by the PP for Batura Opencast coal mine project vide letter no. CGWA/NOC/MIN/REN/1/2025/11632 dated 16.05.2025 by CGWA, New Delhi, with validity up to 27.04.2026.

PP submitted that, Katna nallah and Jamuniya nallah are flowing through the mine lease area from Southeast direction and Northwest of proposed boundary respectively, which are proposed to be diverted. The expected length of diversion is proposed to be 3.3 km and 5.275 km, respectively.

**36.4.7: Details of Power Requirement and diversion of High-Tension/ Transmission Line:** The power requirement for the said project has been estimated to be 5 MW. The electricity requirement will be met from MPPKBBCL. Further, a transmission line of 132 KVA is proposed to be diverted and the approximate length of diversion is 2.895 km.

**36.4.8: Details of Solid and Hazardous Waste Generation:** The details of solid and hazardous waste estimated to be generated along with its mode of treatment/disposal is furnished as

below:

	Type of Waste		Quantity (For FY 2024-25)	Mode of	

**36.4.9: Plantation:** In addition to reclamation area, afforestation shall be done covering an area of 1492.143 ha at the end of mining. This will include reclaimed external OB dump of 31.07 Ha, internal dumps of 1269.672 Ha and greenbelt including safety zone of 26.6 Ha. Density of plantation shall be 2500 nos. of trees per ha.

**36.4.10: Rehabilitation & Resettlement Plan:** The rehabilitation and resettlement of the project affected families/ persons is being governed as per the Right to Fair compensation and Transparency in Land Acquisition and Rehabilitation and resettlement Act, 2013. Rehabilitation and resettlement of project affected families have to be carried out as per this Act.

Seven villages viz. Rampur, Belia, Khanda, Ataria, Khairbana, Bichhia & Kodaili are falling under Rampur Batura Opencast project. About 1500 nos. of total house are falling under EC boundary and about 3000 PAPs are to be rehabilitated or compensated in lieu of housing plot. Out of which 51 PAPs are already paid in lieu of housing plots. Out of rest PAPs, about 2800 PAPs are also opting for monetary compensation in lieu of housing plot. Rest about 149 PAPs opting for housing plots. At present, 18.137 Ha land for R&R site finalised by State authority, out of which 10 Ha of land of village Amlai, Tehsil- Jaitpur already been handed over to SECL for development of R&R site. For architectural design and approval of estimate is under process. Remaining 8.137 Ha of land for R&R site identified at village- Girwa, Tehsil- Jaitpur is yet to be handed over by State Authority to SECL. Total fund allocated for R&R is Rs. 473.94 Crs.

**36.4.11: Project Cost:** The total cost of the project is Rs. 2020.61 Crs.

**36.4.12: Legal Issues/ Violation:** There is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Eevam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act.

About 97 nos. of Civil cases related to dispute between parties regarding land compensation, land entitlement etc. in acquired land are pending. These cases are distributed across various courts, including 8 cases in the Madhya Pradesh High Court Jabalpur, 2 cases in Chhattisgarh High Court, Bilaspur, 82 Cases in Civil Court Burhar and 5 cases in Collector and SDM Court Shahdol.

**36.4.13: Written Submissions:** During the meeting PP submitted the following information/documents:

Maps showing baseline data stations over topo sheet are submitted.

Proposed mode of coal transportation after commissioning of CHP silo:

Mode	Proposed quantity dispatched (M T)	Maximum distance to consumers (km)
Rail	4.0	1200*
Road	2.0	500*

\*Maximum expected distance of consumers purchasing coal through E Auction/ DO and transporting through public road.

S.N.	Land Use	Land under physical possession in ha	Plantation carried out till date in ha
1	Quarry Area	88.95 (59.06 ha backfilled)	9
2	External Dump Area	26.816	9
3	Safety Zone	12	6
<b>Total Area</b>		<b>127.766</b>	<b>24</b>

### 3.4.3. Deliberations by the committee in previous meetings

N/A

### 3.4.4. Deliberations by the EAC in current meetings

#### Deliberations and Observation of the Committee:

##### 36.4.14: The Committee noted the following:

#### Recommendations of the Committee:

36.4.15: 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:

### 3.4.5. Recommendation of EAC

Recommended (Subject to submission of requisite information/ documents)

### 3.4.6. Details of Terms of Reference

#### 3.4.6.1. Specific

Specific Terms of Reference	
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 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.
3.	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.
4.	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.
5.	Project proponent to prepare Environmental Cost Benefit Analysis for the project in EIA/EMP Report.
6.	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.
7.	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.
8.	Project proponent should submit a wildlife conservation plan for the Schedule – I species present within the study area, approved by the PCCF Wildlife.
9.	Project proponent should submit a plan for strengthening the schools (by introducing smart classes, RO facility, Sanitation water, plantation on periphery, etc) and medical facilities (by introducing day care facilities, improved infrastructure, etc) within 2 km of the ML area.
10.	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.
11.	Project proponent shall obtain letter from the concerned authority to carve out the PWD road passing through the ML area.
12.	Project proponent shall prepare the EIA-EMP report and thereafter conduct the Public Consultation, including public hearing, through concerned SPCB in the Anuppur District as per the provisions/procedure contained in the EIA Notification, 2006.
13.	Project proponent shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.
14.	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.
15.	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.
16.	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 saplings of height not less than 4 feet 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.
1 7.	PP should also submit a plan for community plantation along with the budgetary provisions for planting fruit bearing species in the nearby villages.
1 8.	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.
1 9.	PP shall also submit an action plan for the mitigation measures to be adopted to protect the water bodies in close vicinity of the ML area.
2 0.	Project proponent shall carryout the aquatic biodiversity study of the Katna nallah flowing through the mine lease area, which is proposed to be diverted as part of the expansion, through a NABET accredited consultant and accordingly a fresh permission for diversion of the same shall be obtained from the State Irrigation department/ Water resource department and shall be submitted along with the application for EC.
2 1.	Project Proponent shall obtain permission from the competent authority for diversion of 132 KVA power line and the same shall be submitted along with the application for EC.
2 2.	No OB dumping shall be proposed on the forestland.
2 3.	Project proponent shall explore the various sustainable usages of the void to be created such as introducing carbon sequestration techniques, solar and hydro electricity generation, installation of pipelines for water supply to the ponds in the nearby villages, etc from the said void proposed to be created.
2 4.	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.
2 5.	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.
2 6.	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.
2 7.	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.
2 8.	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.
2 9.	Details on waste water generation (Industrial and domestic), their treatment (technology, methodology and capacity) and disposal to be submitted.
3 0.	Details on renewable energy proposed to be installed as energy conservation measures shall be submitted.
3 1.	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.
3 2.	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.
3 3.	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 date, 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.
3 4.	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.
3 5.	Project proponent shall submit a plan for installation of solar panels within the ML area in order to reduce its dependency on the thermal generated electricity.
3 6.	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.
3 7.	Necessary coordination shall be made with concerned SPCB (who is responsible for Compliance of OM dated 14.01.2025 & 08.10.2025) 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.

### 3.4.6.2. Standard

1( a)	<b>Mining of minerals</b>
<b>null</b>	
1.	An EIA-EMP Report shall be prepared for..... MTPA peak capacity in an ML/project area of.....ha based on the generic
2.	An EIA-EMP Report would be prepared for..... MTPA peak capacity to cover the impacts and environment management prediction modeling for MTPA of coal production based on approved project/Mining Plan for.....MTPA. Baseline data
3.	If the washery is located within the mine lease or near to the mine lease its location should be cited seperately also
4.	Plan of mechanized transportation of coal to coal washery also for rejects and washed coal to be drawn
5.	Proper KML file with pin drop and coordinate of mine at 500-1000 m interval be provided

6.	A toposheet specifying locations of the State, District and Project site should be provided.																																			
7.	A Study area map of the core zone (project area) and 10 km area of the buffer zone (1: 50,000 scale) clearly delineating other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries, the same should be furnished in tabular form also.																																			
8.	Land use map (1: 50,000 scale) based on a recent satellite imagery of the study area may also be provided with explanation.																																			
9.	Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined by the State Government).																																			
10.	A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses cross the boundaries of the lease/project area).																																			
11.	A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarries, areas undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of the lease/project area.																																			
12.	In case of any proposed diversion of nallah/canal/river, the proposed route of diversion/modification of drainage and the area affected.																																			
13.	Catchment area with its drainage map of 25 km area within and outside the mine shall be provided with names, details of areas diverted.																																			
14.	Prior in principle approval from the respective state govt shall be required in cases where PP proposes diversion of any road/railway line passing through the ML/project area.																																			
15.	Similarly if the project involves diversion of any road/railway line passing through the ML/project area, the proposed route of diversion and the area affected.																																			
16.	Break up of lease/project area as per different land uses and their stage of acquisition should be provided. LANDUSE																																			
	<table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Landuse</th> <th>Within ML area/project area (ha)</th> <th>Outside ML area/project area (ha)</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Agricultural land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Forest land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Wasteland</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Grazing land</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>Surface water bodies</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td>Settlements</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Sl. No.	Landuse	Within ML area/project area (ha)	Outside ML area/project area (ha)	Total	1	Agricultural land				2	Forest land				3	Wasteland				4	Grazing land				5	Surface water bodies				6	Settlements			
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5	Surface water bodies																																			
6	Settlements																																			

7	Others (specify)			
	Total			

17.	Break-up of lease/project area as per mining plan.
18.	Impact of changes in the land use due to the project.
19.	Study on the existing flora and fauna in the study area. A corridor of any endangered fauna should be given priority. A detailed Comprehensive Conservation Plan along with the project plan.
20.	One-season (other than monsoon) primary baseline air quality assessment should be provided. The detail of NABL/ MoEF&CC should be provided.
21.	Map (1: 50, 000 scale) of the study area (core area and buffer zone). The buffer zone should be selected on the basis of size of lease area and should be as per CPCB guidelines and parameters for various activities.
22.	For proper baseline air quality assessment, Wind rose diagram should be provided. The diagram should cover overall the 10 km buffer zone i.e. dispersion of pollutants.
23.	A detailed traffic study along with presence of major roads and traffic density should be provided. The study should also contribute to carbon emission so what will be the impact of the project.
24.	The socio-economic study to be conducted with a detailed description of the local population should be clearly mention. The study should also include the impact of the project on the local population.
25.	The Ecology and biodiversity study should also include the impact of the project on the local flora and fauna and forest diversion.
26.	Impact of proposed project/activity on hydrology, modification of water bodies, and water balance.
27.	Details of mineral reserves, geological status of the area, and the impact of the project on the approved Mining Plan. Geological maps and section of the project area and the impact of the project on the approved Mining Plan.
28.	Details of mining methods, technology, equipment, and the impact of the project on the environment.
29.	Impact of mining on hydrology, modification of water bodies, and water balance.
30.	Forest diversion shall be only proposed for coal mining.
31.	Detail of OB recovery for reutilization of mineral.
32.	OB dump management from its extraction, transportation, and disposal.
33.	Detailed water balance should be provided. The impact of the project on the water bodies and water balance.

34.	Flow chart of water balance should be provided
35.	PP shall submit design details of all Air Pollution
36.	PP shall propose and explore to use LNG/CNG
37.	PP to evaluate the green house emission gases
38.	Site specific impact assessment with its respect
39.	Impact of mining and water abstraction from the reflected in case there is a declining trend of gr
40.	Impact of blasting, noise and vibrations should
41.	Impacts of mining on the AAQ and predictions b
42.	Impacts of mineral transportation within the mining workshop etc, management plan for maintenance
43.	Effort be made to reduce/eliminate road transpor
44.	Details of waste OB and topsoil generated as per use should be given. OB dump heights and terrai
45.	Efforts be made for maximising progressive inter
46.	Impact of change in land use due to mining opera
47.	Progressive Green belt and ecological restoration and transportaion area of coal shall be provided

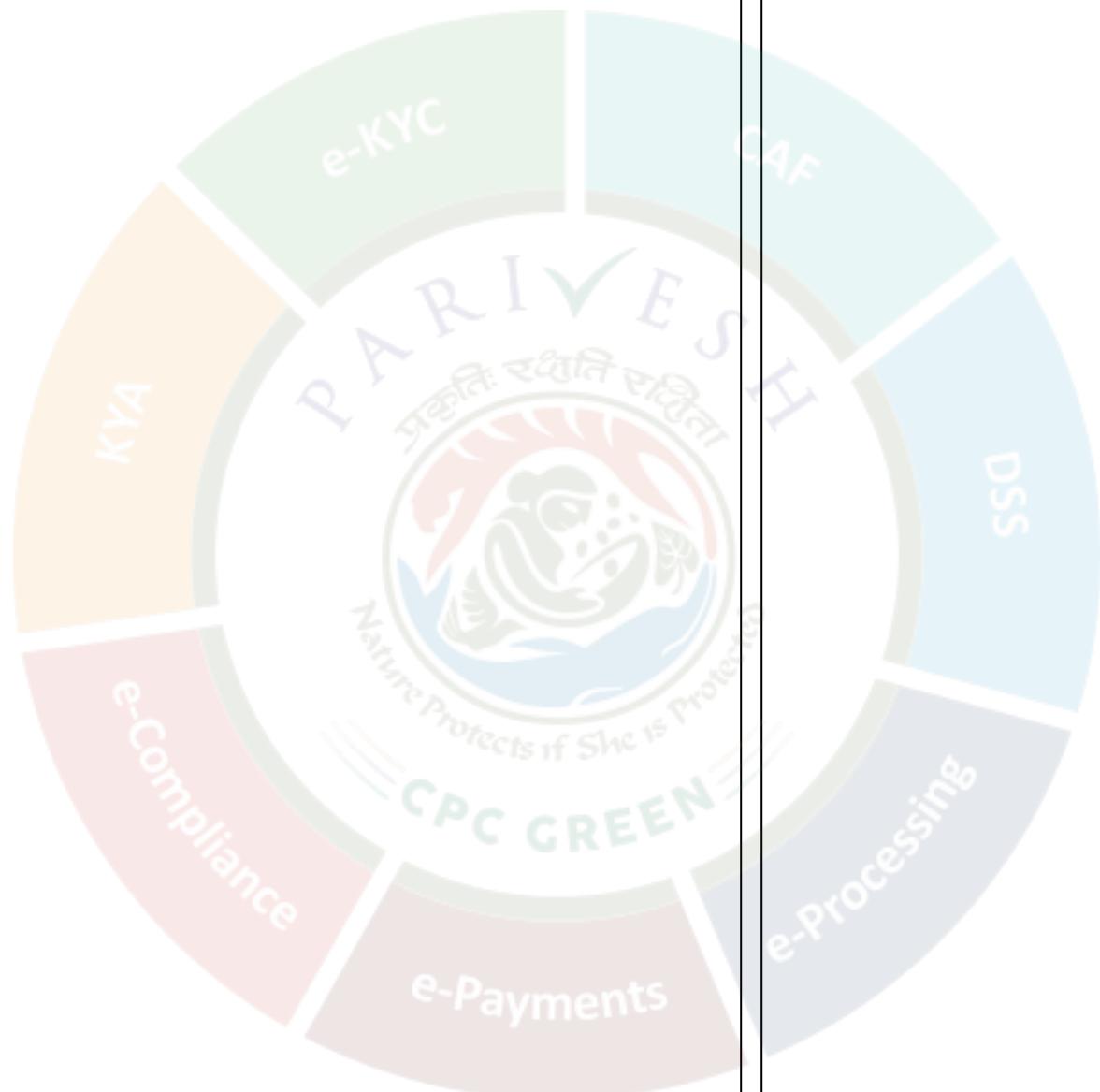
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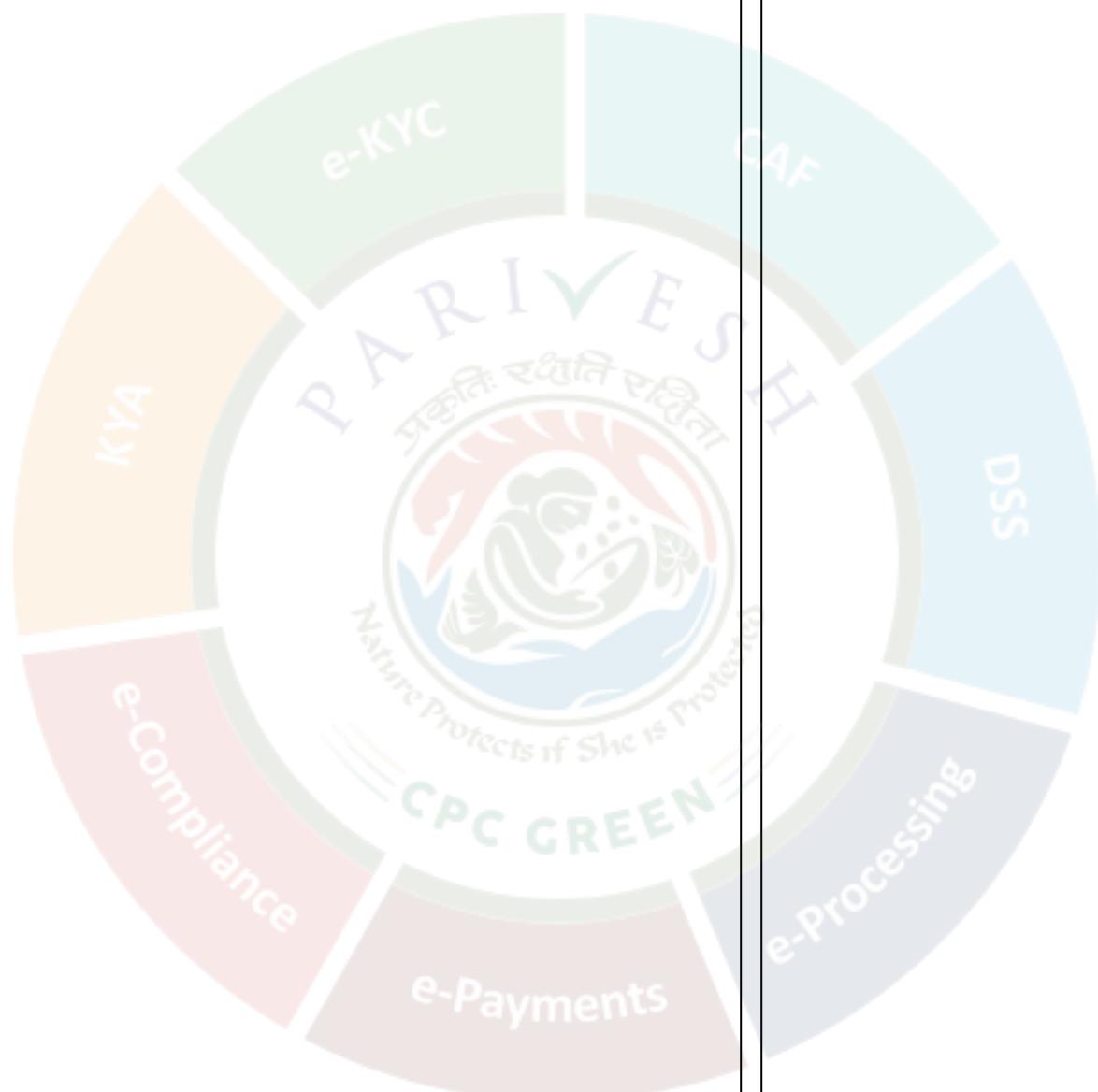
S.N.	Land use Category
1	Backfilled Area(Reclaimed with plant)
2	Excavated Area (not reclaimed)/void
3	External OB dump Reclaimed with plant
4	Reclaimed Top soil dump
5	Green Built Area
6	Undisturbed area (brought under plan)
7	Roads (avenue plantation)

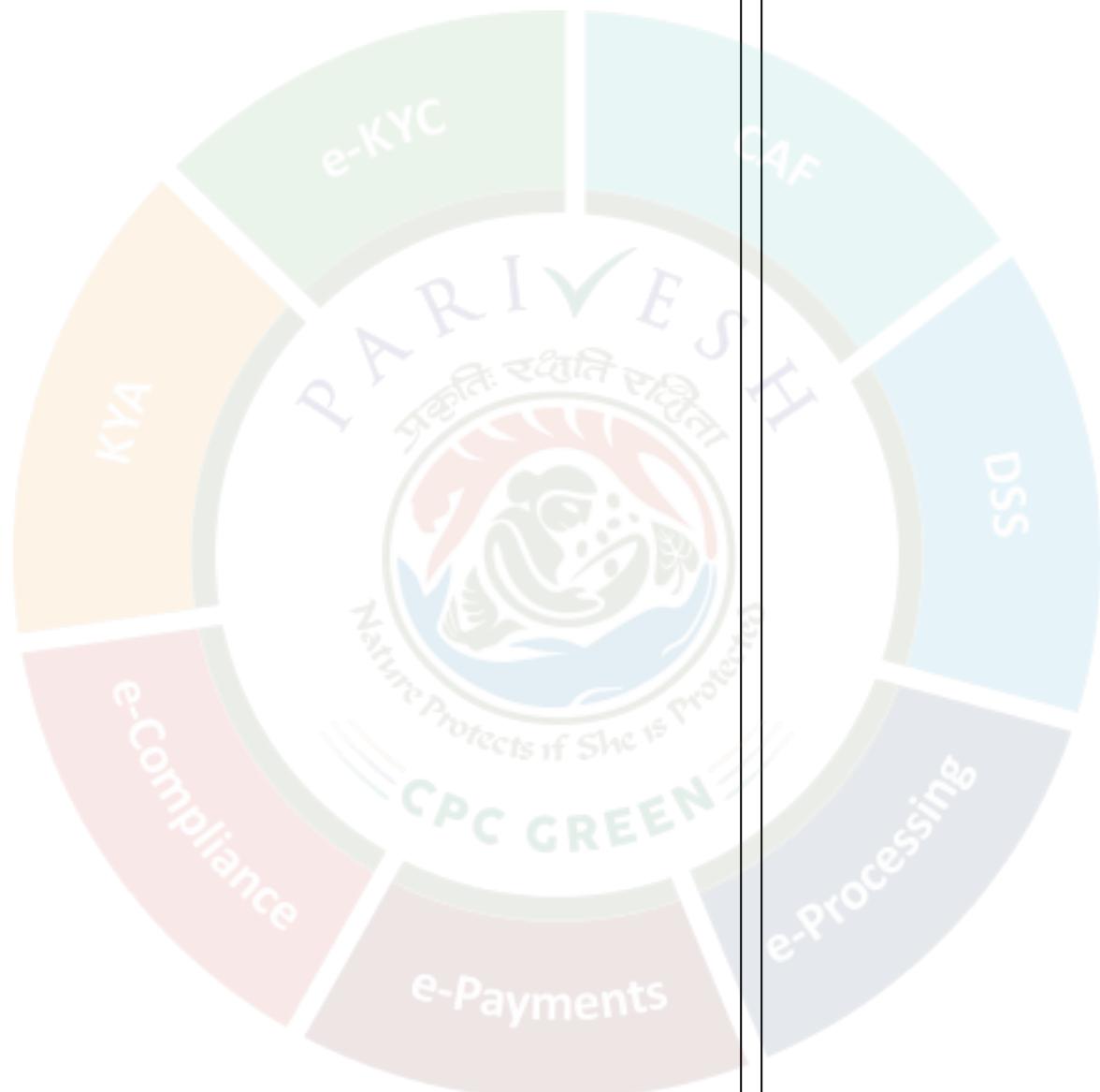


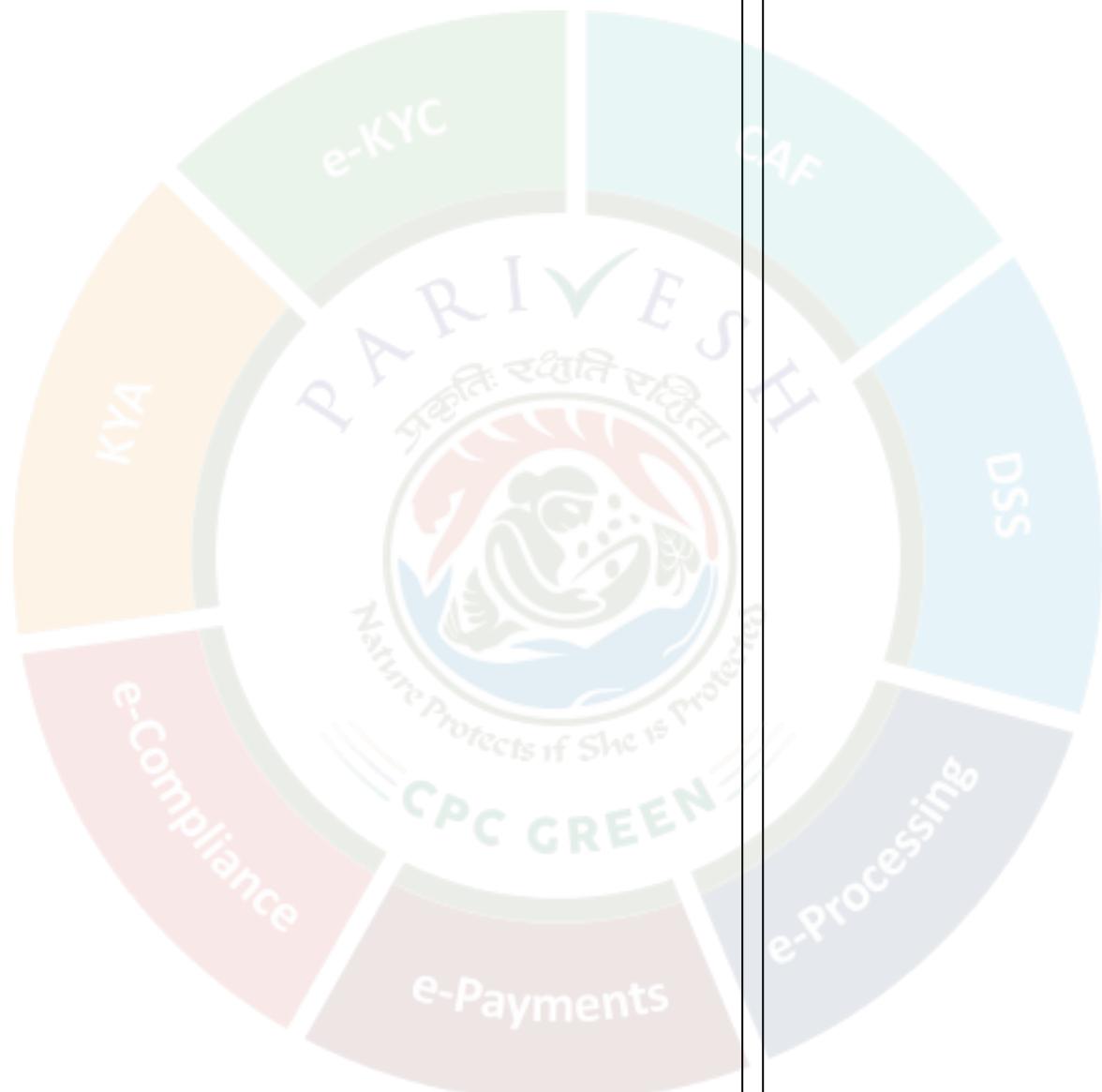
8	Area around buildings and Infrastructure			
	Total			

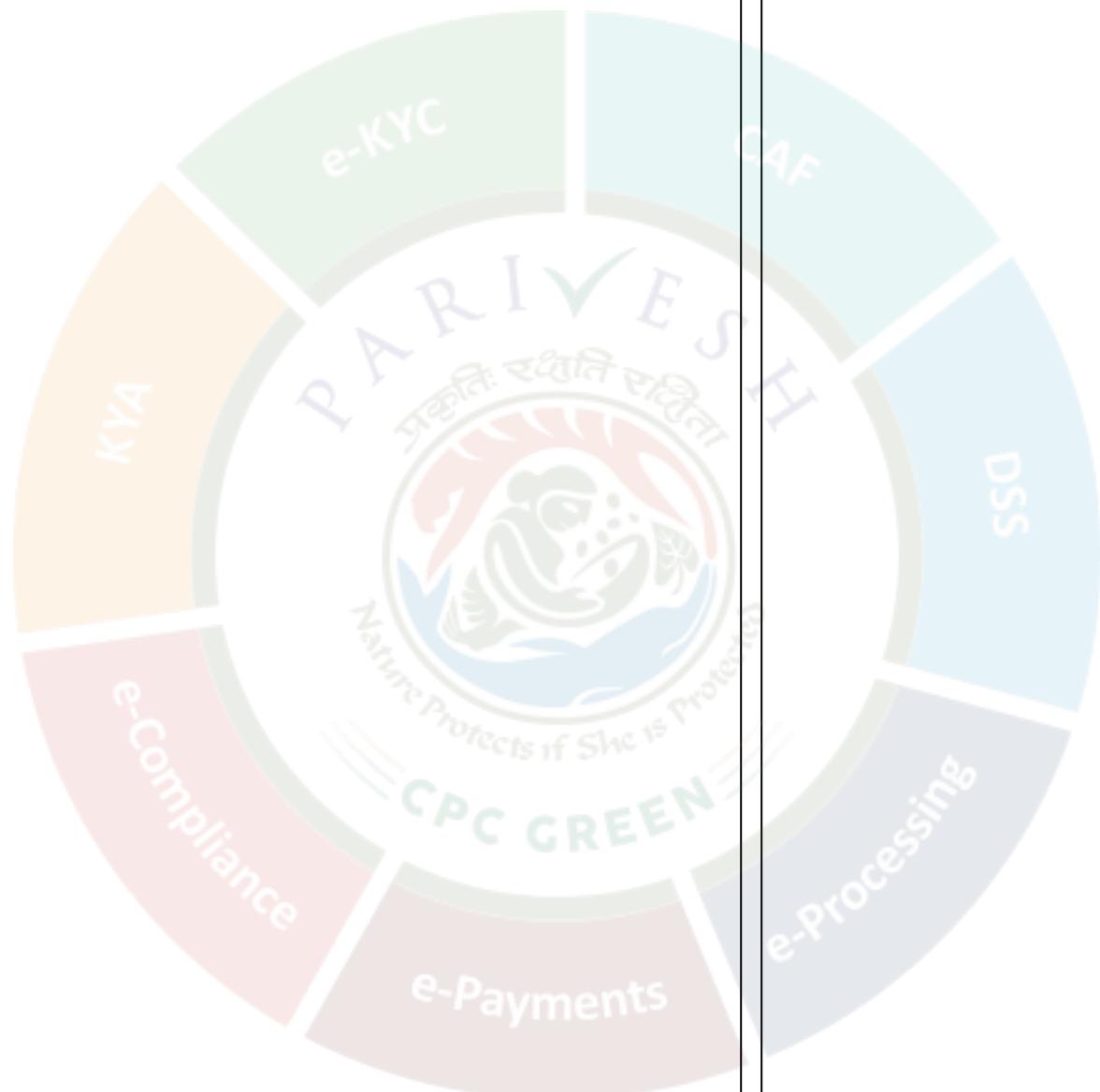
S. No.	YEAR*	Green		External		Ba
		Belt	Dump			
1	1st year					
2	3rd year					
3	5th year					
4	10th year					
5	15th year					
20th year						
7	25th year					
8	30th year					
9	34th year(end of mine life)					
10	34-37th Year (Post-mining)					

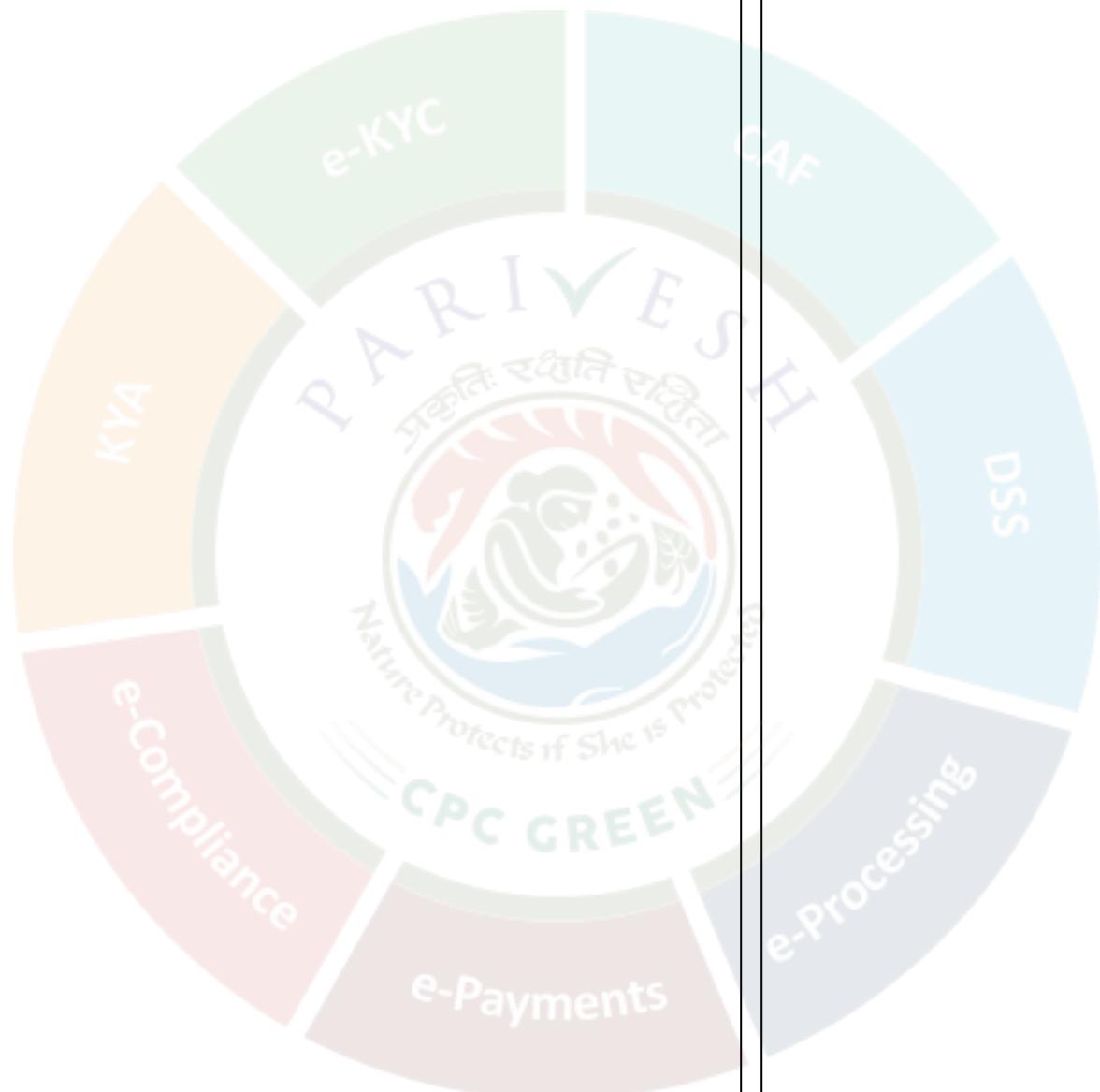


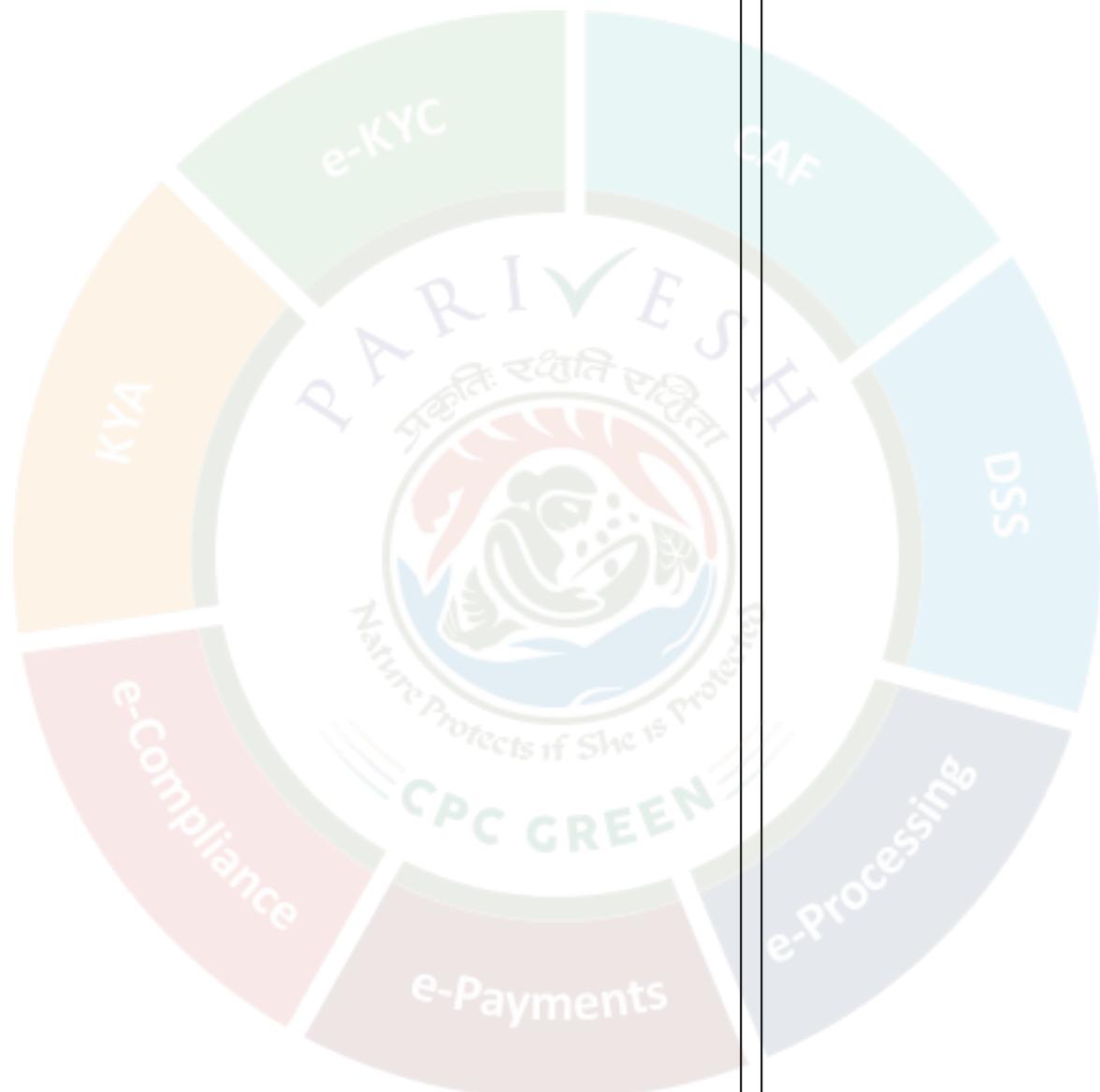


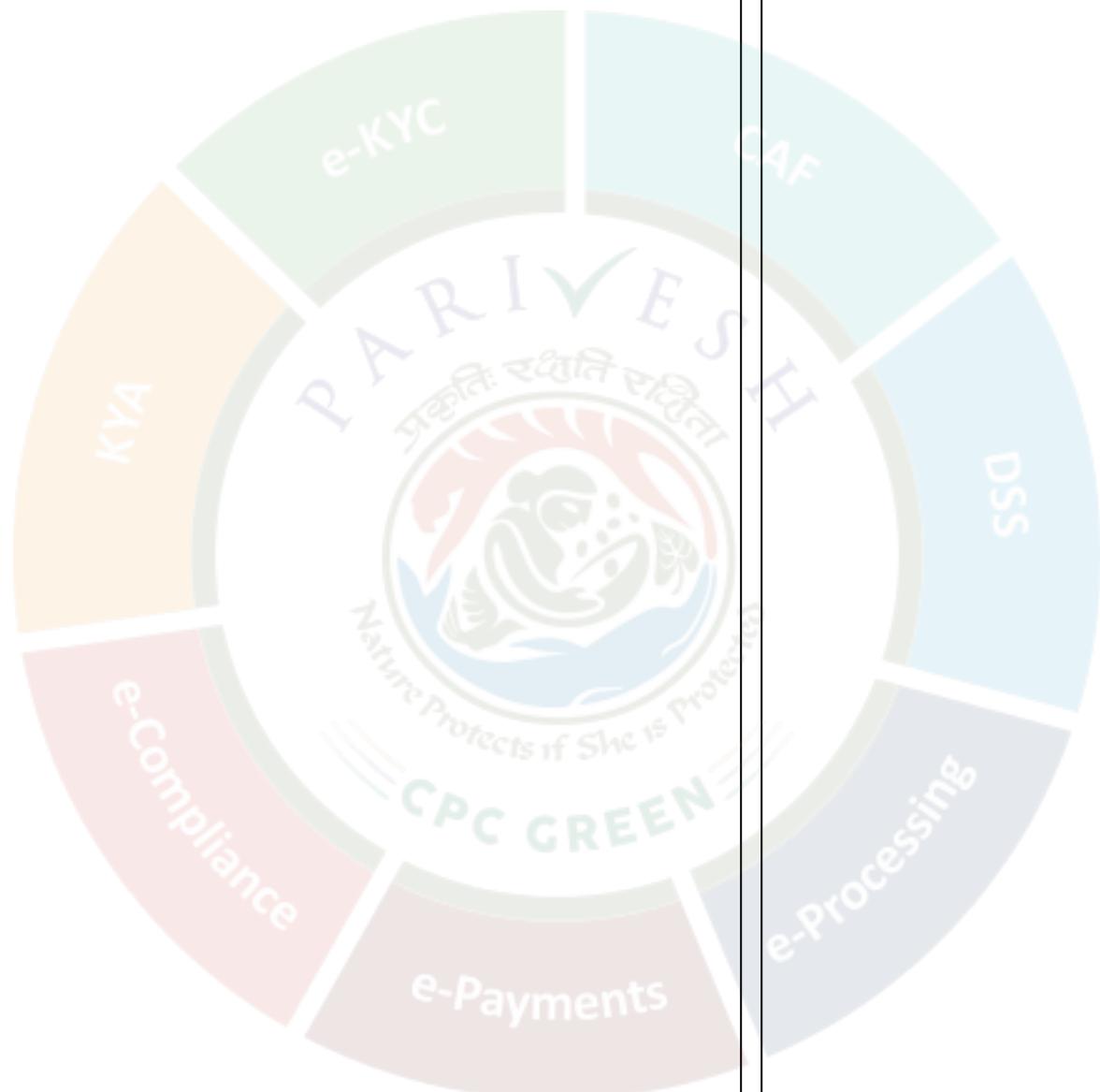


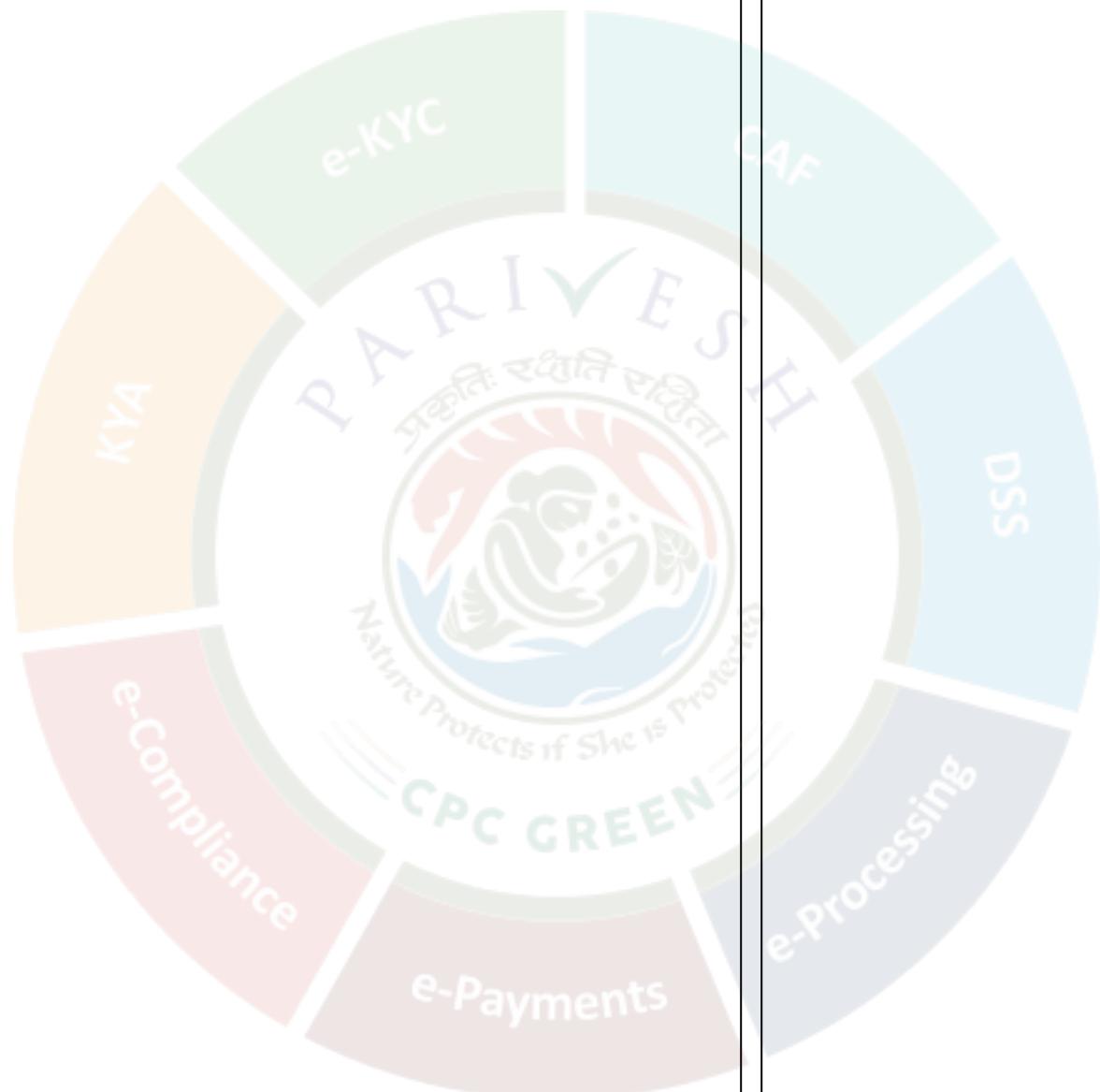


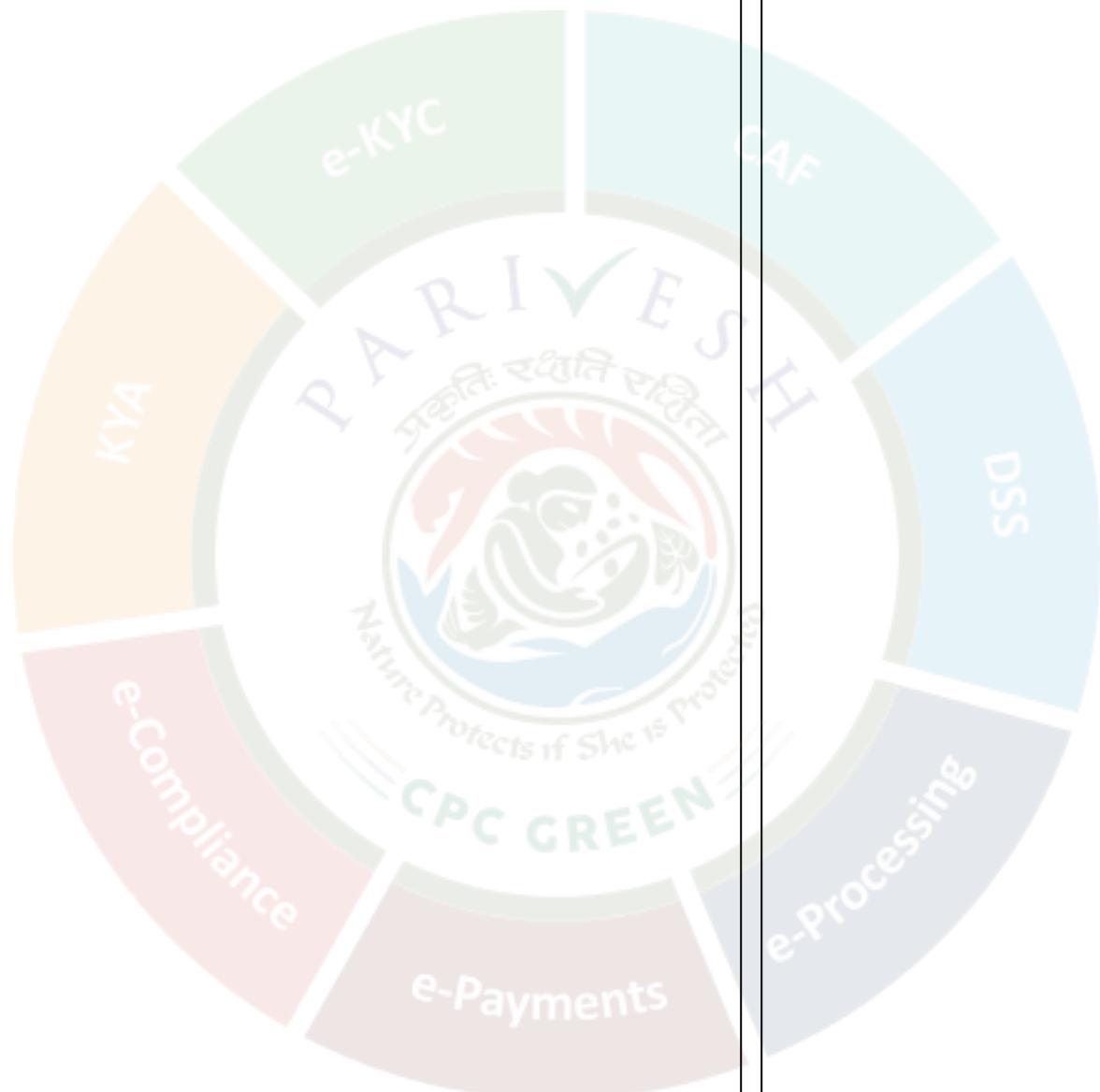


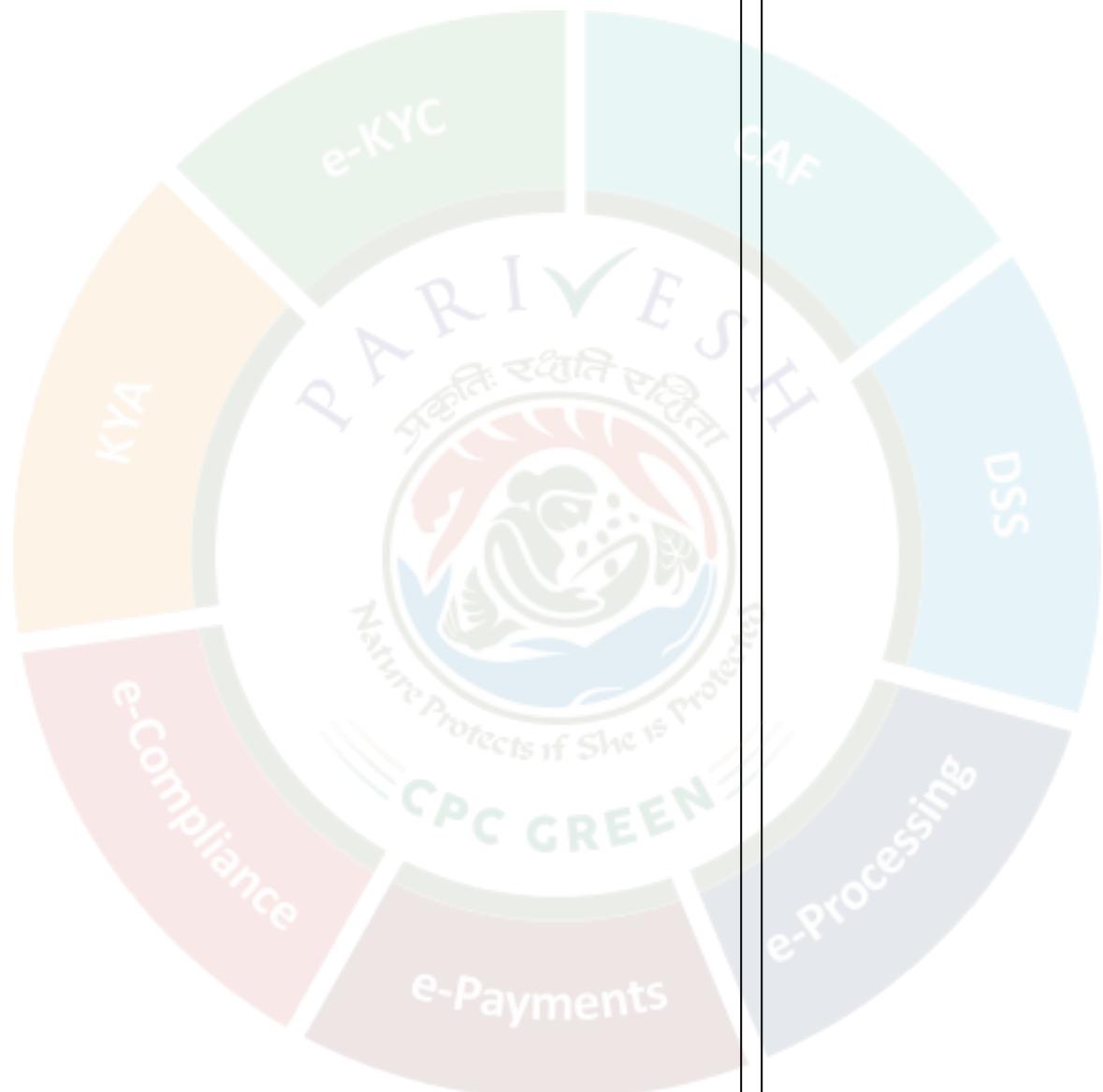


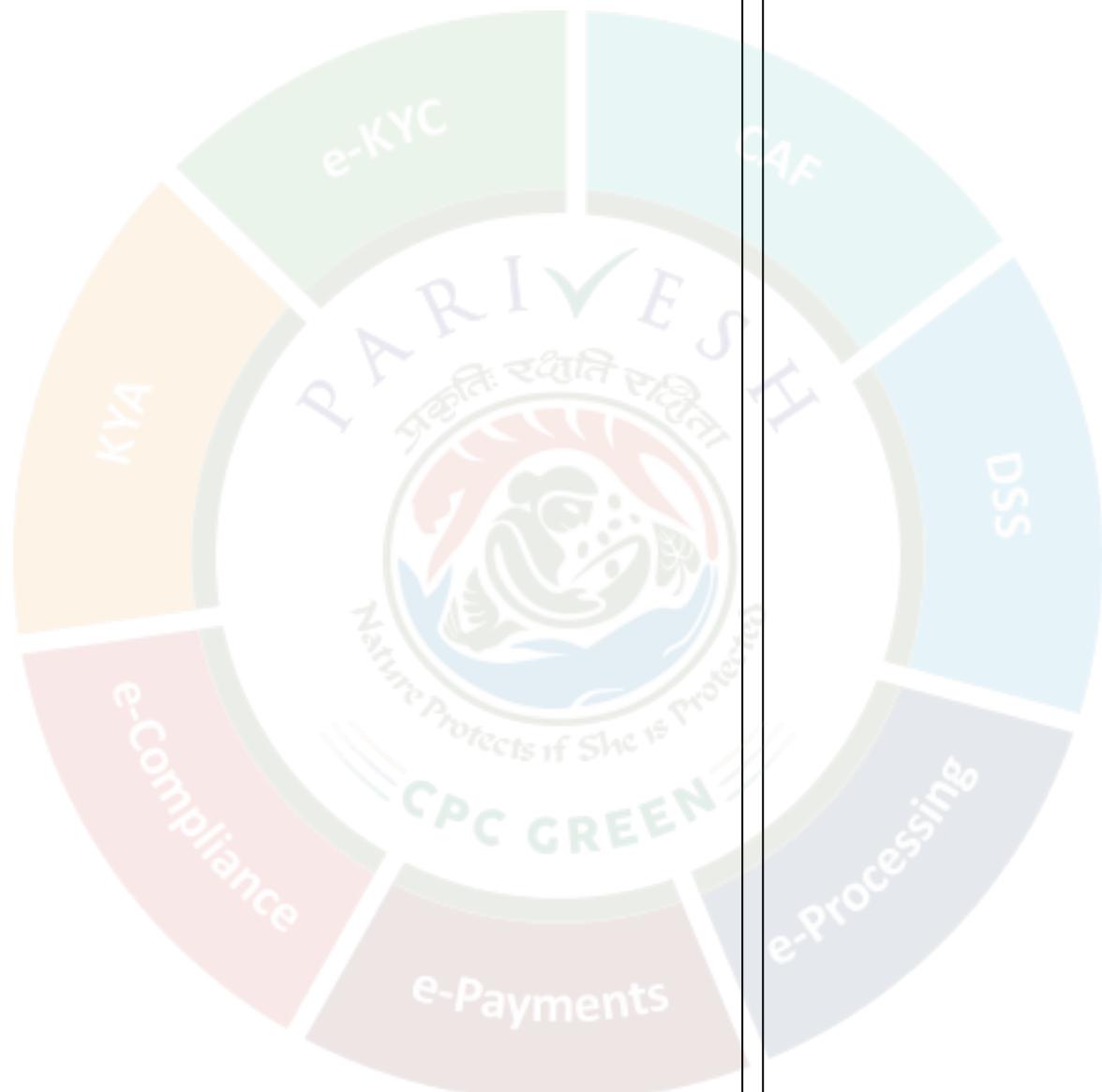


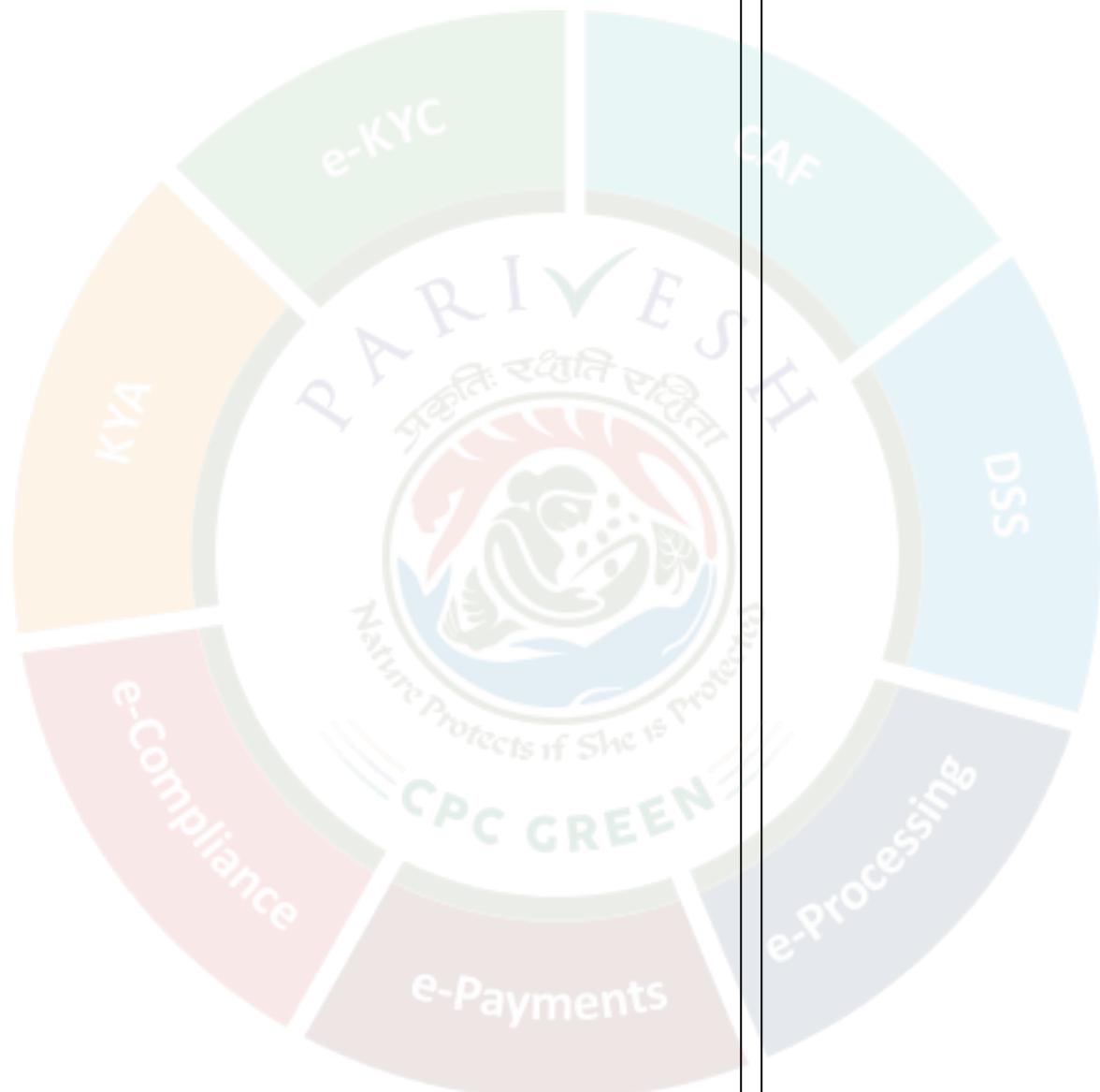


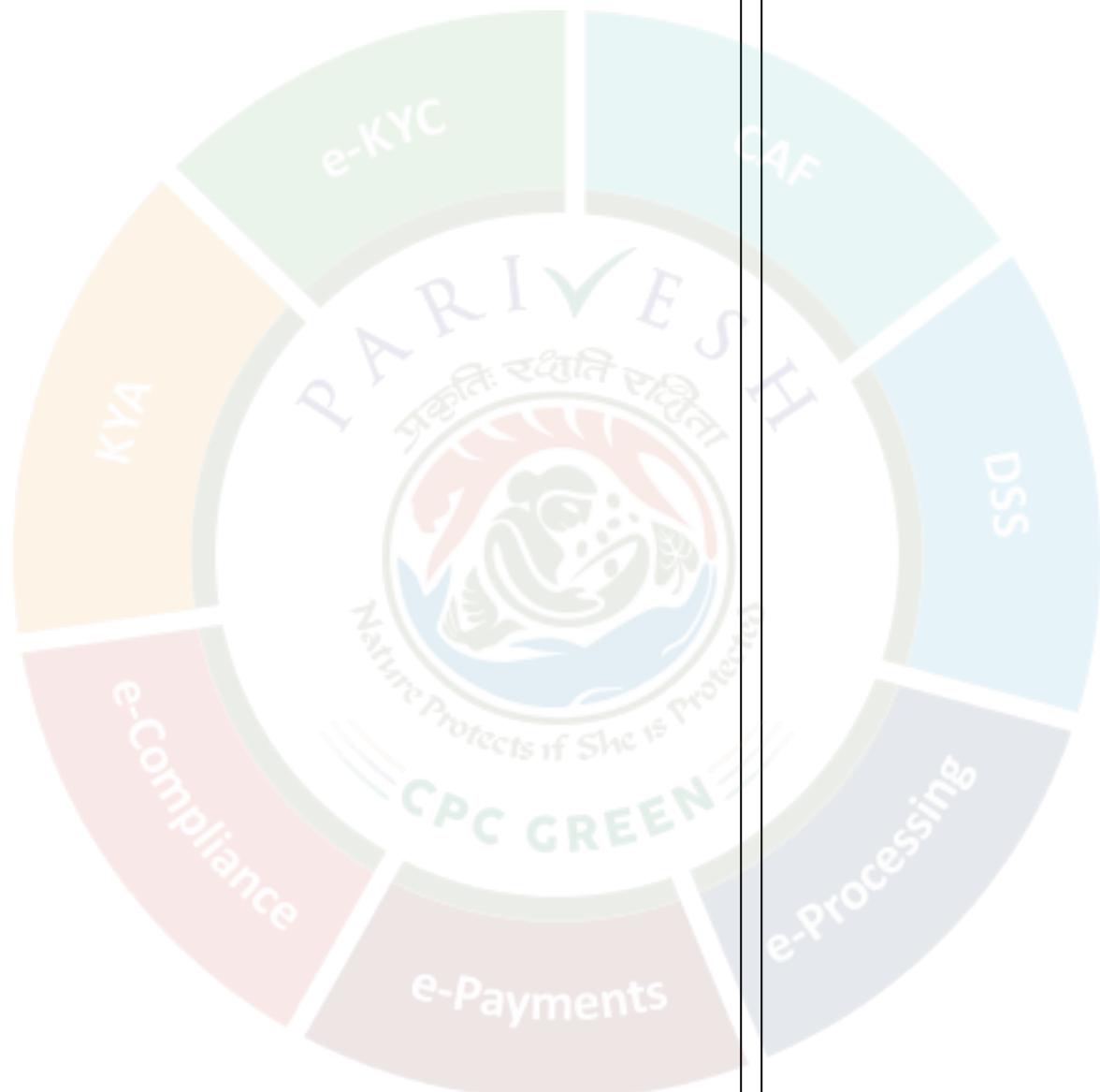


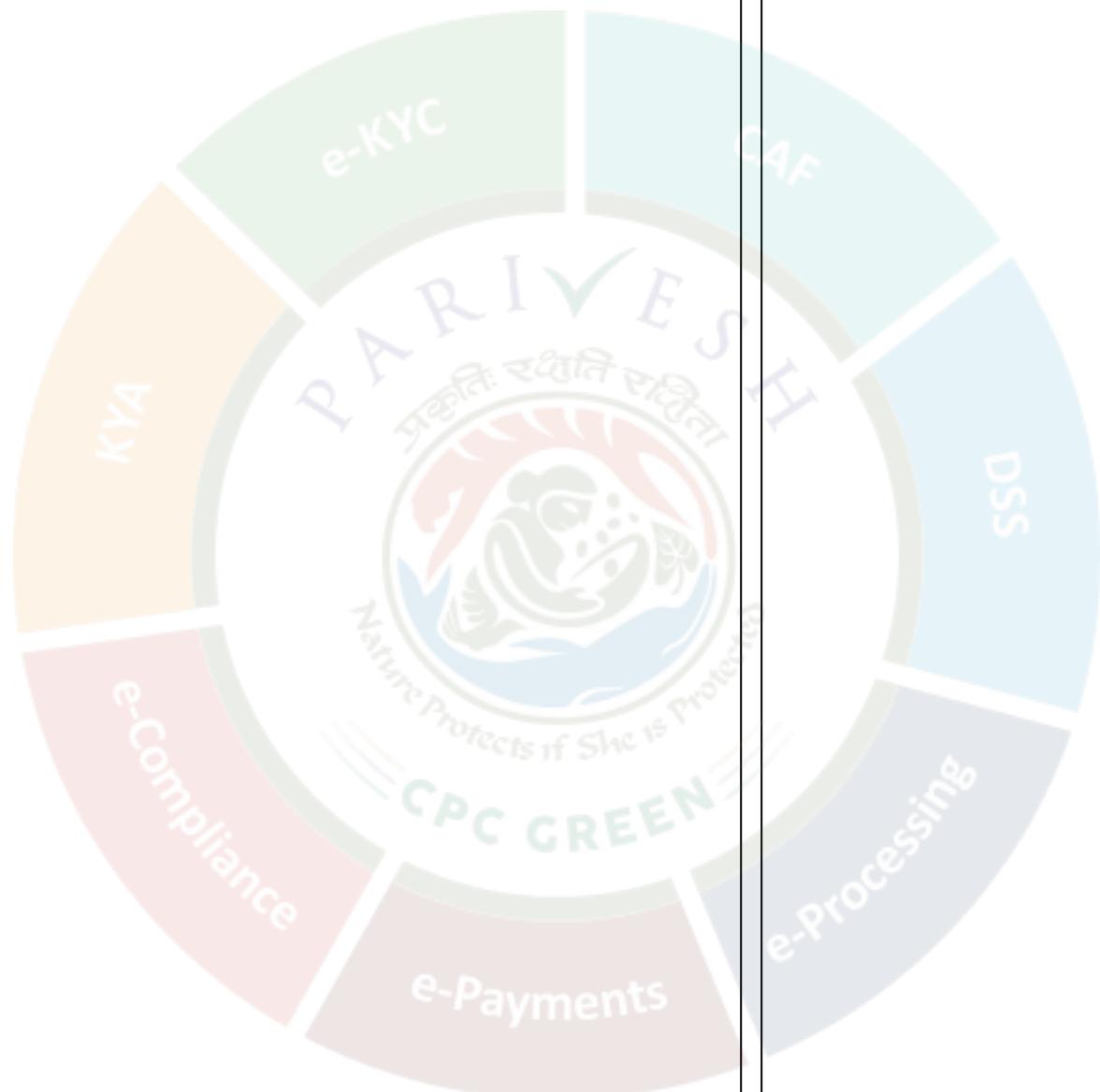


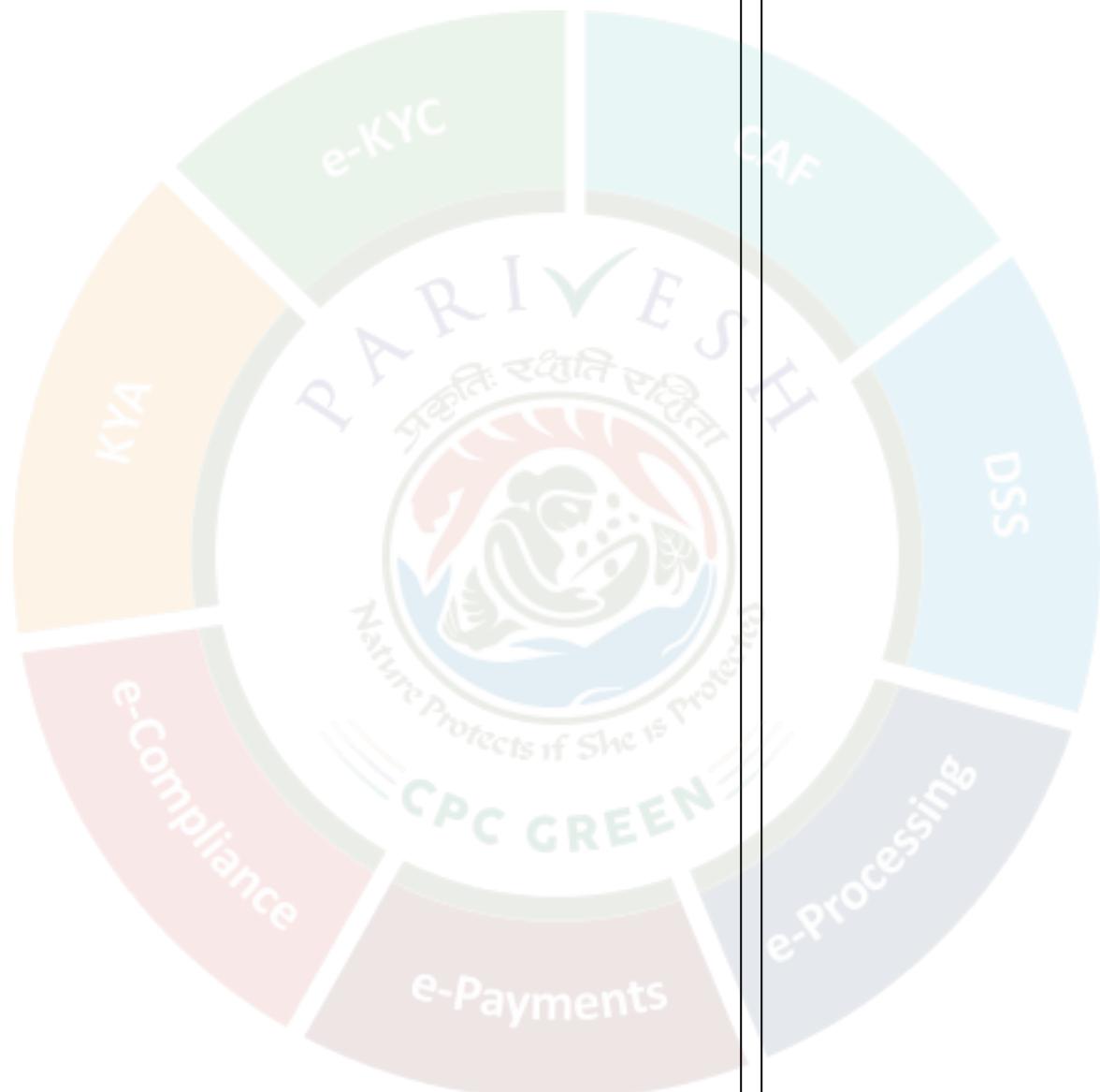


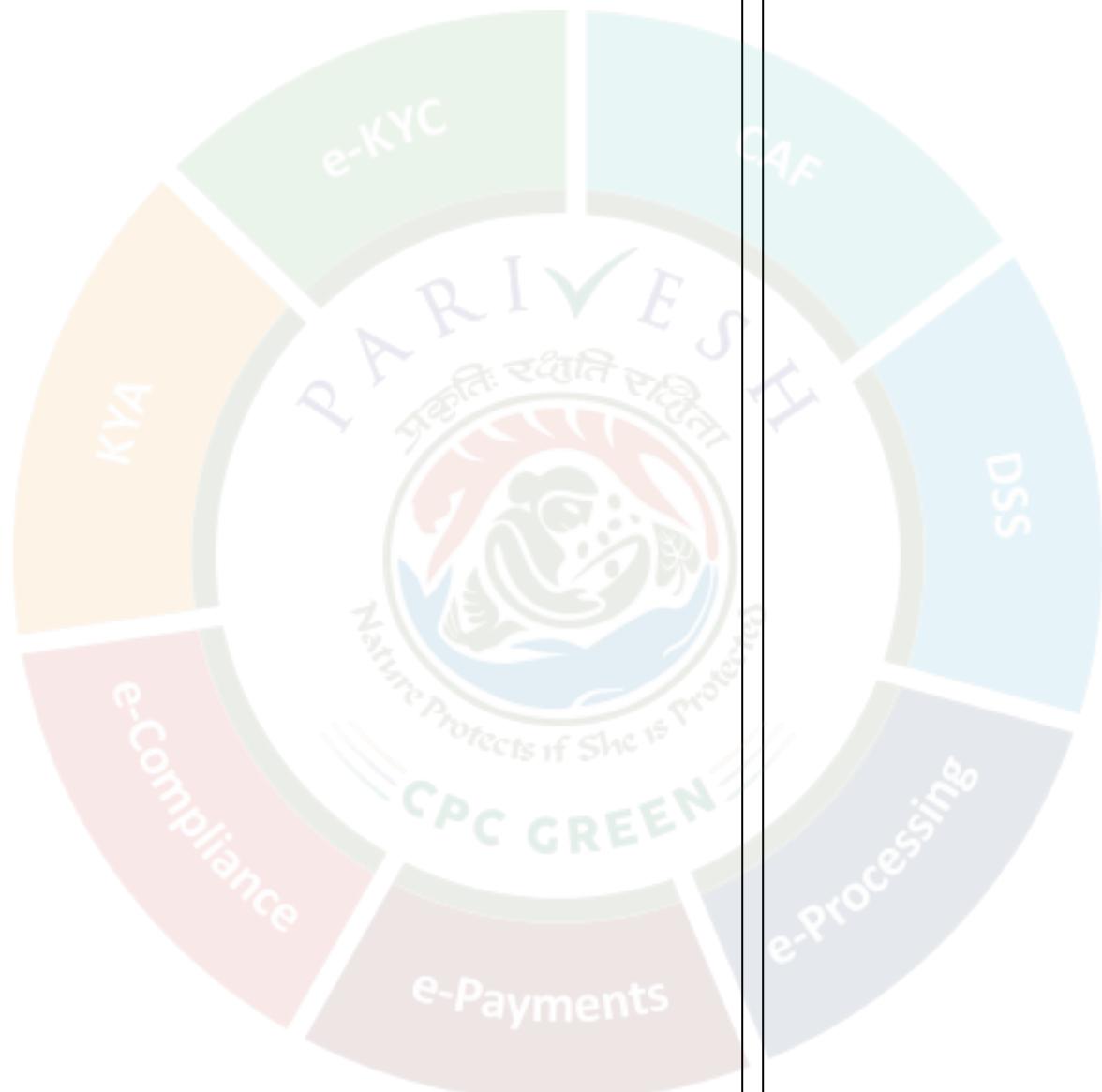












**Ministry of Environment, Forest and Climate Change**  
**Impact Assessment Division**  
**(Coal Mining Sector)**

**Date of zero draft MoM sent to Chairman: 18/12/2025**

**Approval by Chairman: 21/12/2025**

**Uploading on PARIVESH: 22/12/2025**

**SUMMARY RECORD OF THE THIRTY SIXTH (36<sup>TH</sup>) MEETING OF EXPERT APPRAISAL COMMITTEE (EAC) HELD ON 8<sup>TH</sup> DECEMBER 2025 FOR ENVIRONMENT APPRAISAL OF COAL MINING SECTOR PROJECTS THROUGH VIRTUAL MODE.**

**8<sup>TH</sup> DECEMBER, 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 – II**.

Confirmation of the minutes of the 35<sup>th</sup> meeting of the EAC (Coal): The minutes of the 35<sup>th</sup> meeting of the EAC (Coal) held on 8<sup>th</sup> December 2025 through virtual mode have been confirmed by the EAC, along with the following corrections:

**A. Agenda Item No. 35.1:**

Minutes uploaded on PARIVESH	To be read as
<p><b>Para 35.1.4:</b></p> <p><b>Mitigation measures being undertaken and further proposed:</b></p> <p><b>Details of existing control measures:</b></p> <ol style="list-style-type: none"><li>1. At Banadag Railway Siding 30 nos. Permanent/fixed type high-capacity rain guns have been installed on both side of railway siding (north and south side) to minimize the dust generation.</li><li>2. Dust suppression along the coal transport route is being controlled by 17 nos. of mobile water tankers of different capacity ranging from 10 KL to 18 KL.</li><li>3. Boundary wall has been constructed on both side (i.e., North &amp; South Side) of Banadag Railway Siding along with permanent wind screen of height 20 ft.</li><li>4. To avoid accidents at night, streetlamp posts have been installed through Department of Energy, Govt of Jharkhand along the transportation road.</li><li>5. 100 nos. of solar lights have been installed along the coal transport route.</li><li>6. Regular monitoring for Ambient Air and Noise quality is being done along the coal transport route.</li><li>7. Continuous Ambient Air Quality Monitoring</li></ol>	<p><b>Para 35.1.4:</b></p> <p><b>Mitigation measures being undertaken and further proposed:</b></p> <p><b>Details of existing control measures:</b></p> <ol style="list-style-type: none"><li>1. Road sweeping machine will be deployed on coal transportation route which is already in use at Talaipalli Project.</li><li>2. Around 7000 numbers of trees have been planted on both side of roads constructed by NTPC and is being maintained through state government PSU.</li><li>3. Water Tankers will be deployed along transportation route for dust suppression.</li><li>4. Permanent water sprinklers available at goods shed which shall be put in use.</li><li>5. Wheel washing facility will be developed at railway siding.</li><li>6. Regular monitoring for Ambient Air and Noise quality will be done along the coal transport route.</li><li>7. Transportation of coal will be ensured through tarpaulin covered trucks only.</li><li>8. Only Trucks/ Tippers with valid PUC certification &amp; fitness certificate will be allowed.</li><li>9. Safety boards are installed along the coal</li></ol>

Minutes uploaded on PARIVESH	To be read as
<p>(CAAQMS) system has been installed in coal transport route (Sirka village).</p> <p>8. Plantation has been carried out along the coal transport route. Till date 18417 nos. of plants have been planted.</p> <p>9. Transportation of coal is being done through only tarpaulin covered trucks.</p> <p>10. Only Trucks/Tippers with valid PUC certification &amp; fitness certificate are allowed.</p> <p>11. Safety boards are installed along the coal transportation route.</p> <p>12. Awareness program, safety talks, pep talks for the Tipper drivers &amp; local people is in practice.</p> <p>13. Facilities for rest/ stay/ hygiene/ sanitation/ for drivers has been provided at the mine site.</p> <p>14. Speed breaker on turnings and habitat area in order to ensure slow driving.</p> <p>15. Regular cleaning and maintenance of transport route.</p> <p>16. Trucks are following a “no horn, low speed” protocol while passing through village.</p>	<p>transportation route.</p> <p>10. Awareness program, safety talks, pep talks for the Tipper drivers &amp; local people will be practice.</p> <p>11. Facilities for rest/ stay/ hygiene/ sanitation/ for drivers has been provided at the mine site.</p> <p>12. Speed breaker on turnings and habitat area in order to ensure slow driving.</p> <p>13. Trucks are following a “no horn, low speed” protocol while passing through village.</p> <p>14. Solar powered high mast installed at Teram village turning on transportation route.</p> <p>15. High mast installed on Kotrimal village and Raikera Village along the coal transport route.</p> <p>16. Traffic controllers will be deployed along the route through youth of villages falling along the route.</p> <p>17. Regular maintenance of roads is being done in consultation with state highway department.</p>

#### Details of additional control measures proposed

- Additional plantation to be carried out along the transport route for dust and noise control on either side of road, wherever possible.

#### Para 35.1.10:

Para/ Conditions as per EC dated 02.01.2013	Description as per approved EC dated 02.01.2013	Recommendations of EAC
Para 1, page 1	.....The mine is captive to company's Lara Super Thermal Power Project (4000 MW) located at a distance of 60 km....	<p><b>Agreed.</b></p> <p>With regard to the changes in the said para, Committee decided to modify it as follows:</p> <p>“.....The mine is captive to company's Lara Super Thermal Power Project (4000 MW) located at a distance of 60 km. However, the surplus coal after meeting the EUP requirement will be sold/ utilized as per the government directives and/ or in accordance with the</p>

#### Para 35.1.10:

Para/ Conditions as per EC dated 02.01.2013	Description as per approved EC dated 02.01.2013	Recommendations of EAC
Para 1, page 1	.....The mine is captive to company's Lara Super Thermal Power Project (4000 MW) located at a distance of 60 km....	<p><b>Agreed.</b></p> <p>With regard to the changes in the said para, Committee decided to modify it as follows:</p> <p>“.....The mine is captive to company's Lara Super Thermal Power Project (4000 MW) located at a distance of 60 km. However, the surplus coal after meeting the EUP requirement will be sold/ utilized as per the government directives and/ or in accordance with the</p>

Minutes uploaded on PARIVESH		To be read as		
	<p>Clause no. 8 of Allotment Agreement of Ministry of Coal dated 10.10.2025 and hence the surplus coal may be sold to the consumers as allowed by Ministry of coal from the pit head or nearest railway siding via road or road cum rail mode.....”</p>			<p>Clause no. 8 of Allotment Agreement of Ministry of Coal dated 27.03.2015 and hence the surplus coal may be sold to the consumers as allowed by Ministry of coal from the pit head or nearest railway siding via road or road cum rail mode.....”</p>
Para 1.5, page 2	<p>....An estimated 56,727 TPD of coal would be transported through an MGR system of 180.54 ha of land upto Kotaraliya Railway Siding to the linked Lara Super Thermal Power Station at a distance of 60 km...</p> <p>“.... An estimated 56,727 TPD of coal would be transported through an MGR system of 180.54 ha of land upto Kotaraliya Railway Siding to the linked Lara Super Thermal Power Station at a distance of 60 km when Lara STPP achieves full capacity. Till such time, Lara STPP achieves full capacity, surplus coal production after meeting the EUP requirement will be sold/ utilized as per the government directives and/ or in accordance with the Clause no. 8 of Allotment Agreement of Ministry of Coal dated 10.10.2025 and hence the surplus coal may be sold to the consumers as allowed by Ministry</p>	<p><b>Agreed.</b></p> <p>With regard to the changes in the said para, Committee decided to modify it as follows:</p> <p>“.... An estimated 56,727 TPD of coal would be transported through an MGR system of 180.54 ha of land upto Kotaraliya Railway Siding to the linked Lara Super Thermal Power Station at a distance of 60 km...</p>	<p>Para 1.5, page 2</p>	<p>....An estimated 56,727 TPD of coal would be transported through an MGR system of 180.54 ha of land upto Kotaraliya Railway Siding to the linked Lara Super Thermal Power Station at a distance of 60 km...</p> <p>“.... An estimated 56,727 TPD of coal would be transported through an MGR system of 180.54 ha of land upto Kotaraliya Railway Siding to the linked Lara Super Thermal Power Station at a distance of 60 km when Lara STPP achieves full capacity. Till such time, Lara STPP achieves full capacity, surplus coal production after meeting the EUP requirement will be sold/ utilized as per the government directives and/ or in accordance with the Clause no. 8 of Allotment Agreement of Ministry of Coal dated 27.03.2015 and hence the surplus coal may be sold to the consumers as allowed by Ministry</p> <p><b>Agreed.</b></p> <p>With regard to the changes in the said para, Committee decided to modify it as follows:</p> <p>“.... An estimated 56,727 TPD of coal would be transported through an MGR system of 180.54 ha of land upto Kotaraliya Railway Siding to the linked Lara Super Thermal Power Station at a distance of 60 km when Lara STPP achieves full capacity. Till such time, Lara STPP achieves full capacity, surplus coal production after meeting the EUP requirement will be sold/ utilized as per the government directives and/ or in accordance with the Clause no. 8 of Allotment Agreement of Ministry of Coal dated 27.03.2015 and hence the surplus coal may be sold to the consumers as allowed by Ministry</p>

Minutes uploaded on PARIVESH			To be read as		
		of coal from the pit head or nearest railway siding via road or road cum rail mode.....”			of coal from the pit head or nearest railway siding via road or road cum rail mode.....”

**Agenda No. 36.1:**

**36.1:** Arjuni East Underground Coal Mine (area 1044.819 Ha having capacity 1.36 MTPA) by M/s UltraTech Cement Limited, located at villages: Pahadiya, Dhaurai, Arjuni and Badwahi; Tehsil: Pali; District: Umaria; State: Madhya Pradesh – Environment Clearance – reg.

**[Online Proposal no. IA/MP/CMIN/553409/2025; Consultant: JM EnviroNet Pvt. Ltd. - QCI/NABET/ENV/ACO/25/3796 – valid up to 07.08.2026]**

**36.1.1:** M/s. Ultratech Cement Limited has made an application online vide proposal no. **IA/MP/CMIN/553409/2025**, dated 30.09.2025 along with the copy of EIA/ EMP report, CAF & Form seeking Environment Clearance (EC) under the provisions of 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 appraised at Central Level. The project does not attract General Conditions as specified in Schedule of the EIA Notification, 2006.

Arjuni East Underground Coal Mine (area 1044.819 Ha having capacity 1.36 MTPA) by M/s UltraTech Cement Limited, located at villages: Pahadiya, Dhaurai, Arjuni and Badwahi; District: Umaria; State: Madhya Pradesh.

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

**36.1.2: Environmental Site Settings:**

The ML area is covered under Survey of India Toposheet No. F44D7 (64 E/7) and is bounded by the geographical coordinates ranging from Latitude: 23°20'37" N to 23°22'55" N and longitudes 81°15'35" E to 81°17'23" E.

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 652.905 Ha (Reserve Forest: 499.06 ha & Revenue Forest: 153.845 ha) of forestland. Application for diversion of forestland of 652.905 Ha as well as surface rights for 24.191 Ha has been submitted vide Proposal No. FP/MP/MIN/QRY/458491/2024, dated 15.05.2024. As on date there is no broken forest area for this mine. This is proposed mine and total area to be disturbed is 24.191 Ha but total forest area to be broken is 15.526 Ha. As remaining 8.665 Ha area to be developed under the greenbelt/ plantation. There is no forestland broken till date and the said project does not involves violation of Van (Sanrakshan Eevam 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/ elephant corridor etc. However, there is a tiger corridor at a distance of 7.13 km, connecting Bandhavgarh National Park and Achanakmar Wildlife Sanctuary.

According to Wildlife (Protection) Act 1972 and its Amendment, Schedule – I species (namely: Sambar, Sloth Bear, Tiger, Leopard, Jungle Cat, Wild Dog, Rat Snake, Cobra, Indian Rock Python, Common Monitor Lizard, Russell's Viper, Common Pochard, White-eyed Buzzard, Common Greenshank Indian Peafowl) were found within the study area. A detailed Wildlife Conservation Plan has been prepared for considering the estimated budget for the conservation of the same is Rs. 1157.30 Lakh & submitted for approval to APCCF (Wildlife), Bhopal through DFO, Umaria vide Ref. No. UTCL/AECM/2025-26/100, dated 06.06.2025.

**Mine Lease Details:** PP submitted that the block within an area of 1044.819 ha has been allocated by Ministry of Coal, Government of India vide allocation order No: NA-104/2/2023-NA, dated 08.06.2023 (expiry date is 30 years from the date of Mining Lease execution & registration) to M/s. UltraTech Cement Limited. Details of the same are as follows.

S. No.	Govt. Order/Notifications as the case may be	Area (in Ha)
1	Ultratech Cement Limited has been declared as successful bidder in accordance with provision of under rule 5(7) of the Coal Block Allocation Rules 2017 (the Rules) letter dated 27.03.2023 issued by Ministry of Coal	1044.819
2	UltraTech Ltd. have also signed the Coal Block Development & Production Agreement with the Govt. of India on 29.03.2023	1044.819
3	The block allocated by Ministry of Coal, Government of India, Allocation order No: NA 104/2/2023-NA dated 08.06.2023	1044.819
<b>Total-1</b>		<b>1044.819</b>
4	Details of LOI (for area outside lease area)	-
<b>Grand Total</b>		<b>1044.819</b>

#### Other Sensitive Receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)			
	S. No.	Village	Distance	Direction
i. Habitation	1.	Arjuni	Within Core Zone	-
	2.	Badwahi	Within Core Zone	-
	3.	Dhaurai	Within Core Zone	-
	4.	Pahadiya	Within Core Zone	-
	5.	Bhimmadongri	~0.58 km	SE
	6.	Bhadra	~ 1.0 km	ESE
	7.	Amiliha	~1.35 km	ESE
	8.	Bakeli	~ 1.8 km	ENE
	9.	Majhigawan	~2.0 km	SSW
	10.	Mahroai	~2.3 km	South
	11.	Jamudi	~ 2.4 km	NNW
	12.	Marwa Tola	~ 2.5 km	South
	13.	Mohtarai	~2.5 km	North
	14.	Ghaghadar	~ 2.6 km	North
	15.	Maman	~ 3.0 km	NNW
	16.	Neusa	~3.2 km	SE
	17.	Kannabahara	~3.7 km	SE
	18.	Odari	~3.9 km	SW
	19.	Itaur	~ 4.0 km	East
	20.	Salaiya	~4.1 km	East
	21.	Semariya	~4.4 km	SE
	22.	Deogawan	~4.7 km	SE
	23.	Chandpur	~4.8 km	SW
	24.	Medhki	~5.0 km	East

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)			
	. No.	School	Distance	Direction
ii. School	1.	Govt. Ms Arjuni	thin Mine Area	-
	2.	UPS Ahiran Tola Arjuni	thin Mine Area	-
	3.	Govt. Hss Badwahi	thin Mine Area	-
	4.	UPS Khuman Tola	thin Mine Area	-
	5.	Govt. Ms Dhaorai	thin Mine Area	-
	6.	PS Palihan Tola	thin Mine Area	-
	7.	Govt. Middle School, Pahadiya	~0.3 km	NW
	8.	UPS Konitola Pahariya	~ 1.0 km	NW
	9.	UPS Milauni Tola	~ 1.0 km	NW
	10.	UPS Tendua Tola	~ 1.1 km	SW
	11.	UPS Ahiran Tola Amiliha	~1.4 km	NW
	12.	UPS Dongari Tola	~ 1.5 km	SW
	13.	Govt. Middle School Badwahi	~1.6 km	NW
	14.	Govt. Middle School Bhadara	~ 2.2 km	NW
	15.	Govt. Middle School Ashram Mahroi	~2.3 km	NE
	16.	Primary School Mauhar Tola	~2.4 km	SW
	17.	Primary School Ghaghdar	~2.5 km	SE
	18.	Govt. Middle School Mohtarayi	~2.6 km	SW
	19.	Upper Primary School Jamuniha Tola	~2.9 km	SW
	20.	Primary School Neusha	~3.1 km	SE
	21.	Upper Primary School Eatour	~ 3.5 km	NW
	22.	Upper Primary School Dongari Tola	~3.4 km	NW
	23.	Upper Primary School Madha Tola	~3.6 km	SW
	24.	Govt. Middle School Odari	~ 3.7 km	SW
	25.	Primary School Semariha	~4.0 km	NW
	26.	Upper Primary School Panmeshara Tola	~4.1 km	NW
	27.	Upper Primary School Dadara Tola	~4.1 km	SW
	28.	Govt. Higher School Salaiya	~ 4.3 km	NW
	29.	Primary School Salaiya	~4.3 km	NW
	30.	Govt. Middle School Salaiya 1	~ 4.3 km	NW
	31.	Primary School Talba Tola	~4.6km	SW
	32.	Govt. Middle School Chandpur	~4.8 km	NE
iii. River/ Waterbody	S. No.	River/Nallah	Distance	Direction
	1.	Baghaunra Nallah	Passing through ML	
	2.	Durinaka Nallah	~0.5 km	SSW direction
	3.	Ghahria Nallah	~0.5 km	NNW direction
	4.	Basar Nallah	~1.5 km	ESE direction
	5.	Jamuniha Nallah	~2.0 km	SSE direction
	6.	Takteona Nallah	~2.0 km	SE direction
	7.	Barhua Nallah	~3.0 km	SE direction
	8.	Hundarha Nallah	~3.0 km	SSE direction
	9.	Nirmal Nallah	~3.0 km	North direction
	10.	Harhar Nallah	~3.5 km	East direction
	11.	Murna Nallah	~5.0 km	East direction
iv. Forest	S. No.	Reserved/Protected Forest	Distance	Direction
	1.	Sohagpur Reserved Forest	Within Mine	-
	2.	Patasi Reserved Forest	~5.0 km	NE direction

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)			
v. Archaeological Survey of India (ASI) protected site	No			
vi. Any other	S. No.	Name	Distance	Distance (from ML boundary) & Direction (from Centre of ML)
<b>Industries</b>				
	1	MP Bio Medical Waste Disposal System	~3.0 km	E
<b>Hospitals</b>				
	1	Badwahi Sub Health Center	~0.21 km	SE
	2	Jamudi PHC	~0.43 km	NW
	3	Amiliha sub Health Center	~2.01 km	SE
	4	Bakeli Sub Health center	~2.35 km	SE
	5	Jamudi Sub Health Center	~2.78 km	NW
	6	Bandhwabara Sub Health Center	~4.85 km	SW

- **Details of diversions proposed:** This is the proposed underground mining. Total block area is 1044.819 ha; out of which, 102.961 ha is Govt. Land, 288.953 ha is Private Land and 652.905 ha is Forest Land. Out of the total forest area of 652.905 ha; only 24.191 ha to be used for mining activity. Out of the 24.191 ha area, 8.665 ha area to be developed under the greenbelt/plantation. Therefore, except this no surface feature will be disturbed.
- **Mitigation measures proposed for the sensitive receptors:**  
This is the proposed underground mining. Total block area is 1044.819 ha; out of which, 102.961 ha is Govt. Land, 288.953 ha is Private Land and 652.905 ha is Forest Land.
- ✓ **Forest Area:** The project involves 652.905 ha (Reserve Forest: 499.06 ha & Revenue Forest: 153.845 ha) forest land. Western southern part of the block is covered by the forest area over a gently undulating plain land. Notified forest area covers about 48% of the total area of the block. Out of the total forest area of 652.905 ha; only 24.191 ha to be used for mining activity. Out of the 24.191 ha area, 8.665 ha area to be developed under the greenbelt/plantation.
- ✓ **Habitation:** Proposed mine site is falling in 04 Revenue Villages viz. Arjuni, Badwahi, Dhaurai & Pahadiya lying within the block boundary. No rehabilitation & resettlement of habitation/village is proposed as this is an underground mine.
- ✓ **Road:** There are many small cart tracks present within the mine site connecting nearby Villages. Since mining will be carried out by UG method as such, no diversion of these tracks is proposed.
- ✓ **School:** There are 02 Upper Primary Schools, 03 Primary Schools and 01 higher secondary school located within mine block. As this proposal is for underground mining; hence, no impact on school and relocation/shifting is envisaged due to proposed mining activity. During mining precautionary and mitigative measures will be adopted.
- ✓ **Water Bodies:** The mine site is drained by two small nala one nala flows north westerly in northern part while second nala flows easterly in southern part of the

proposed mine. No diversion of Nala is proposed and the subject mine will be an underground; hence, no impact is envisaged.

- ✓ **Electric Lines:** Electric lines with poles pass through the mine block. Due to proposal of underground mining, no requirement of diversion of electric line is envisaged.

However, during mining precautionary and mitigative measures will be adopted which are as follows:

- This is mechanized mining using the board & pillar method with continuous miners.
- Limited span method is proposed for pillar extraction.
- Drilling & blasting will be limited up to development stage and areas having small workable coal patches only.
- Wet drilling will be carried out along with dust collection system.
- Blasting will be carried out with optimal quantity of explosives and with technically established blast design to control noise & ground vibrations within limit.
- Controlled blasting techniques will be adopted.
- Coal transport from belt conveyors upto the surface.
- PUC certified vehicles will be used.
- Regular maintenance of Pay Loaders, HEMMs & transportation vehicles will be carried out.
- Permanent water sprinkling arrangements for main haulage road.
- Development of greenbelt & plantation around the mining activity & other areas will be carried out.
- Wastewater (50 KLD) generated from mine office, rest shelters, Canteen etc. will be treated in STP and treated water (42 KLD) will be used for greenbelt/ plantation development.
- Wastewater (162 KLD) from the HEMM truck/ tipper washing/ workshop will be treated in oil-water separator. After treatment, (146 KLD) water will be reused in dust suppression.
- Settling ponds will be constructed to treat mine discharge water.

### 36.1.3: Details of ToR:

Date of Application	Details	Date of Accord	ToR Validity
17.05.2024	ToR Letter was issued by the MoEF&CC, New Delhi with Specific and Standard ToR	17.02.2025	years from the date of issuance of ToR
24.04.2025	ToR Amendment Letter was issued by the MoEF&CC, New Delhi for revised Forest Area from 498.463 ha to 652.905 ha	26.05.2025	

**36.1.4: Details of Mining Plan:** Mine plan & Mine Closure plan for the project were approved by the Ministry of Coal (Rated capacity 1.36 MTPA & Peak Capacity: 2.04 MTPA, Area 1044.819 Ha) vide letter no ARJUNI EAST COAL MINEMPMP043/APP00258/2023, dated 12.01.2024. Later, Minor updatons/ changes in Approved Mining Plan & Mine Closure Plan of Arjuni East Coal Mine under Para 2.9 (b) - Revision of Mining Plan, Mining Plan Guidelines for Coal & Lignite Mine 2025, dated 31.01.2025, Revision-01, has been

done at all respective places in the Mining Plan and approval regarding the same updations has been obtained from the Board of Director, dated 23.04.2025.

1. Method of mining to be adopted shall be Mechanized Bord and Pillar UG working with deployment of Continuous Miners. Wherever required, SDLs & LHDs may also be deployed for drivage of advance galleries to support mechanization. In areas or situations where it is not possible to deploy CMs (having small workable coal patches major breakdown, overhaul etc.), it is proposed to extract the coal by drilling and blasting with LHD/ semi mechanized technology.
2. No waste is proposed to be generated as this is an underground coal mine. Soil excavated from excavations of Inclines and shaft to be used for greenbelt development. Excavated rock waste will be generated from drivage of inclines and shaft, which will be of very less quantity. This is proposed to be spread out in the infrastructure area and proposed to be used for construction of road & backfilling of low-lying infrastructure area.
3. Total geological reserve reported in the mine lease area are 146.480 Million Tonnes with 54.9180 Million Tonnes mineable reserves. Out of total mineable reserves, 28.30 Million Tonne reserves are available for extraction. Percent of extraction is 21.4670%.
4. Total 14 seams are available within mine area, out of which 04 seams are workable with thickness ranging from 0.30 m to 7.56 m. Grade of coals G9-G16. This proposal is for underground mining. During excavation of coal from underground mining, there is no generation of OB; hence, details of stripping ratio are not applicable. The gradient is around 1 in 35 to 1 in 50.
5. Life of mine is 27 years.
6. Details of Land use:
  - a) Pre-mining land use pattern:

S. No.	Land Use	Within ML Area (ha)	Outside ML Area (ha)	Total (ha)
1.	Agricultural Land	284.791	-	284.791
2.	Forest Land	652.905	-	652.905
3.	Waste Land	-	-	-
4.	Grazing Land	9.268	-	9.268
5.	Surface Water Bodies	2.222	-	2.222
6.	Settlements	12.983	-	12.983
7.	Other (Community/Other, Road & Barren)	82.65	-	82.65
<b>Total</b>		<b>1044.819</b>	<b>-</b>	<b>1044.819</b>

- a) Post –mining land use pattern:

S. No.	Type	Total Area (ha)	Reclaimed Area (ha)	Un-Reclaimed Area (ha)
1	Excavation/Quarry Area	-	-	-
	(a) Backfilled Areas	-	-	-
	(b) Excavated Void	0.540	0.540	-
2	External Dump	-	-	-
3	Safety Zone	-	-	-
4	Roads & Infrastructure	14.656	14.656	-
5	Garland Drains	-	-	-
6	Embankment	-	-	-
7	Others (UG Entry, Settling Pond, Greenbelt/Plantation, Undisturbed OR Mining Right for UG)	1029.623	8.995	1020.628

S. No.	Type	Total Area (ha)	Reclaimed Area (ha)	Un-Reclaimed Area (ha)
	<b>Total</b>	<b>1044.819</b>	<b>24.191</b>	<b>1020.628</b>

**Source:** Approved Mining Plan along with Mine Closure Plan

7. **Details of transportation:** PP submitted that the coal is proposed to be transported within the outside mining lease in the following manner:
  - a. **In pit:** From underground face via network of belt conveyors which will discharge into 3 x 150 tonner bunker to be installed at surface.
  - b. **Surface to siding:** Coal from this bunker will be loaded onto the trucks and transported to the nearest railway siding and it will be transported to the nearby Plants of UltraTech Cement Limited via covered trucks.
  - c. **Siding to loading:** Coal from this bunker storage will be loaded onto the trucks and to be transported via road to nearest road to nearest railway siding or end user or Cement Plant of UltraTech Cement Ltd. via covered trucks.
  - d. **Proposed change in transportation:** The coal from the UG mine will be transported through conveyor belt which will discharge into 3x150 tonner bunker which will be installed at surface. Coal from the bunker storage will be loaded onto the trucks. Coal transportation will be done for Initial 5 year 100% by road. After development of railway siding (at a distance of 9 km from the ML area) the coal will be transported by road as well as by road & railway siding to end users.
8. **Reclamation details:** PP reported that this is proposed underground mine and total area to be disturbed is 24.191 ha for making the surface infrastructure for mining purpose. Out of the 24.191 ha area; 8.665 ha area to be developed under greenbelt/plantation within & around facilities. Density of plantation shall be 2500 saplings per Ha. Remaining, 14.656 ha area will be used for making the surface infrastructure viz. Roads & Infrastructure: 14.656 ha, for UG entry: 0.540 ha, for Top Soil Dump: 0.115 ha & for Settling Pond: 0.215 ha. Thus, total area use for the mining purpose is 15.526 ha. At conceptual stage, this area will also be reclaimed and rehabilitated by plantation. At the end of life of mine, total reclaimed area is 24.191 ha and same will be returned to the Forest Dept. 1020.628 Ha area will remain undisturbed with mining right for underground mining.

### 36.1.5: Baseline Data:

Parameter	Description	Additional Study (If any)
Period	Post Monsoon (Oct. to Dec. 2023)	
AAQ parameters at 11 Locations (min and max)	<b>For Core Zone</b> PM <sub>10</sub> : 38.0 to 52.5 $\mu\text{g}/\text{m}^3$ PM <sub>2.5</sub> : 18.8 to 31.9 $\mu\text{g}/\text{m}^3$ NO <sub>2</sub> : 9.1 to 13.9 $\mu\text{g}/\text{m}^3$ SO <sub>2</sub> : 4.2 to 9.3 $\mu\text{g}/\text{m}^3$ CO - BDL  <b>For Buffer Zone</b> PM <sub>10</sub> : 41.5 to 75.5 $\mu\text{g}/\text{m}^3$ PM <sub>2.5</sub> : 20.1 to 46.4 $\mu\text{g}/\text{m}^3$ NO <sub>2</sub> : 10.5 to 27.9 $\mu\text{g}/\text{m}^3$ SO <sub>2</sub> : 5.3 to 14.8 $\mu\text{g}/\text{m}^3$ CO: 0.65 to 0.80 mg/m <sup>3</sup>	pact Assessment Study for Underground Mining was done by Department of Mining Engineering of Indian Institute of Technology (Indian Schools of Mines) Dhanbad, Jharkhand

Parameter	Description	Additional Study (If any)																														
Incremental GLC Level	<p><b>Core Zone</b>  PM<sub>10</sub>: 2.23 µg/m<sup>3</sup>  PM<sub>2.5</sub>: 0.88 µg/m<sup>3</sup>  SO<sub>2</sub>: 1.21 µg/m<sup>3</sup>  NO<sub>2</sub>: 1.15 µg/m<sup>3</sup></p> <p><b>Buffer Zone</b>  PM<sub>10</sub>: 1.0 µg/m<sup>3</sup>, 240 m in SE direction  PM<sub>2.5</sub>: 0.5 µg/m<sup>3</sup>, 240 m in SE direction  SO<sub>2</sub>: 0.8 µg/m<sup>3</sup>, 240 m in SE direction  NO<sub>2</sub>: 0.8 µg/m<sup>3</sup>, 240 m in SE direction</p>	-																														
Ground water quality at 09 Locations	<ul style="list-style-type: none"> <li>➢ pH - 6.76 to 7.15</li> <li>➢ Total Hardness – 145.08 to 295.24 mg/l</li> <li>➢ Alkalinity - 130 to 256 mg/l</li> <li>➢ TDS – 260 to 468 mg/l</li> <li>➢ Chloride – 52.99 to 120.95 mg/l</li> <li>➢ Sulphates – 10.26 to 31.03 mg/l</li> <li>➢ Nitrates – 2.4 to 8.79 mg/l</li> <li>➢ Calcium – 38.06 to 74.15 mg/l</li> <li>➢ Magnesium – 12.13 to 26.73 mg/l</li> <li>➢ Iron - 0.16 to 0.92 mg/l</li> <li>➢ Fluoride - 0.08 to 0.32 mg/l</li> </ul>	-																														
Surface water quality at 03 Locations	<ul style="list-style-type: none"> <li>➢ pH - 7.56 to 7.62</li> <li>➢ Total hardness- 90.08 to 215.2 mg/l</li> <li>➢ Total dissolved solids - 170 to 350 mg/l</li> <li>➢ Alkalinity - 86 to 190 mg/l</li> <li>➢ Fluoride- 0.09 to 0.20 mg/l</li> <li>➢ Conductivity – 250 to 515 µS/cm</li> <li>➢ COD – 16.0 to 30.0 mg/l</li> <li>➢ BOD – 4.5 to 7.2 mg/l</li> <li>➢ DO- 6.9 to 7.4 mg/l</li> </ul>	-																														
Noise levels Leq (Day and Night) at 11 Locations	<p><b>For Industrial Zone:</b>  During day time – 50.5 to 52.1 Leq. dB (A)  During night time – 40.7 to 42.4 Leq. dB (A)</p> <p><b>For Residential Zone:</b>  During day time – 50.7 to 57.7 Leq. dB (A)  During night time – 40.3 to 44.2 Leq. dB (A)</p>	-																														
Traffic Assessment Study Findings	<p>coal from the UG mine will be transported through conveyor belt which will discharge into 3x150 tonner bunker which will be installed at surface. coal from the bunker storage will be loaded onto the trucks.</p> <p>al transportation will be done for Initial 5 year 100% by road after development of railway siding by road as well as by road &amp; railway siding to end users.</p> <p>sting PCU is 10.06 PCU/hr, at NH-43 it is 325.29 PCU/hr &amp; at NH-43 to Bandhwabara Railway Station it is 8.375 PCU/hr and existing level of service (LOS) is A, B &amp; A respectively.</p> <table border="1"> <thead> <tr> <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>National Highway -43</td> <td>10.06</td> <td>83</td> <td>0.12</td> <td>A</td> </tr> <tr> <td>National Highway -43 to Bandhwabara Railway Station</td> <td>325.29</td> <td>1500</td> <td>0.21</td> <td>B</td> </tr> <tr> <td>National Highway -43 to Bandhwabara Railway Station</td> <td>8.375</td> <td>83</td> <td>0.1</td> <td>A</td> </tr> </tbody> </table> <p>posed PCU is 47.06 PCU/hr, at NH-43 it is 370.93 PCU/hr &amp; at NH-43 to Bandhwabara Railway Station it is 45.375 PCU/hr and proposed level of service (LOS) is C, B &amp; C respectively.</p> <table border="1"> <thead> <tr> <th>Road</th> <th>(Volume in PCU/hr.)</th> <th>(Capacity in PCU/hr.)</th> <th>Proposed V/C Ratio</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>National Highway -43</td> <td>47.06</td> <td>83</td> <td>0.56</td> <td>C</td> </tr> </tbody> </table>	Road	V (Volume in PCU/hr.)	C Capacity in PCU/hr.)	Existing V/C Ratio	LOS	National Highway -43	10.06	83	0.12	A	National Highway -43 to Bandhwabara Railway Station	325.29	1500	0.21	B	National Highway -43 to Bandhwabara Railway Station	8.375	83	0.1	A	Road	(Volume in PCU/hr.)	(Capacity in PCU/hr.)	Proposed V/C Ratio	LOS	National Highway -43	47.06	83	0.56	C	Done by JM EnviroNet Pvt. Ltd.
Road	V (Volume in PCU/hr.)	C Capacity in PCU/hr.)	Existing V/C Ratio	LOS																												
National Highway -43	10.06	83	0.12	A																												
National Highway -43 to Bandhwabara Railway Station	325.29	1500	0.21	B																												
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National Highway -43	47.06	83	0.56	C																												

Parameter	Description					Additional Study (If any)												
	<table border="1"> <tr> <td>-43</td><td>370.93</td><td>1500</td><td>0.25</td><td>B</td><td></td></tr> <tr> <td>-43 to Bandhwa bara Railway Station</td><td>45.375</td><td>83</td><td>0.54</td><td>C</td><td></td></tr> </table> <p><b>Note:</b> Capacity as per IRC Guideline at village Road it is 83 PCU/hr, at NH 43 it is 1500 PCU/hr and at NH-43 to Bandhwabara Railway Station it is 83 PCU/hr.</p> <p><b>Conclusion:</b> The level of service will be A to C at village Road and B to B at NH 43 and A to C at NH-43 to Bandhwabara Railway Station after including additional traffic due to proposed project.</p> <p>Therefore, widening &amp; strengthening of existing road along with the construction of bypass road. Budget proposed for the same is Rs. 10 crore.</p>	-43	370.93	1500	0.25	B		-43 to Bandhwa bara Railway Station	45.375	83	0.54	C						
-43	370.93	1500	0.25	B														
-43 to Bandhwa bara Railway Station	45.375	83	0.54	C														
Flora and Fauna	According to the Wildlife (Protection) Act 1972 and its Amendment, dated 20.12.2022, 15 species viz. Sambar, Sloth Bear, Tiger, Leopard, Jungle Cat, Wild Dog, Rat Snake, Cobra, Indian Rock Python, Common Monitor Lizard, Russell's Viper, Common Pochard, White-eyed Buzzard, Common Greenshank Indian Peafowl were recorded under Schedule I within the 10 km study area. Authenticated list of flora & fauna has been obtained from the Divisional Forest Officer, Umaria Division, Madhya Pradesh vide letter no./Tacniki/2025/1175, Umaria, dated 22.05.2025. Detailed Wildlife Conservation Plan has been prepared considering the estimated budget for the conservation of the same is Rs. 1157.30 Lakh & submitted for approval to APCCF (Wildlife), Bhopal through DFO, Umaria vide Ref. No. UTCL/AECM/2025-26/100, dated 06.06.2025.	Wildlife Conservation Plan was done by NABET Accredited EIA Consultant Sargo Enterprises, Raipur, CG																
Water Requirement	<p><b>Source of Water:</b> Ground Water &amp; Mine Seepage</p> <p><b>Water Requirement:</b> Total water requirement is 1300 KLD.</p> <p><b>NOC (For Surface Water):</b> Not Applicable</p> <p><b>NOC (Ground Water):</b> NOC regarding ground water withdrawal (100 KLD) and seepage (1453 KLD) has been obtained from CGWA on 12.08.2025 and it is valid up to 11.08.2027.</p>	Hydrological Study was done by Hydrological Investigations Division, National Institute of Hydrology, Roorkee and JM EnviroNet Pvt. Ltd																

**36.1.6: Details of Water Requirement:** PP submitted that total water requirement is 1300 KLD (72 KLD for domestic use and 1228 KLD for industrial use), same will be sourced from ground water & mine seepage. NOC regarding ground water withdrawal (100 KLD) and seepage (1453 KLD) has been obtained from CGWA on 12.08.2025 and it is valid up to 11.08.2027. No water body is proposed to be diverted for the said project. The excess water will be treated and will be given to the farmers for agricultural use.

### 36.1.7: Public Consultation/ Hearing:

Details of advertisement given	Times of India (English), Dainik Bhaskar (Hindi), Patrika (Hindi), Vijay Math (Hindi) & Desh Bandhu (Hindi) on 24.05.2025.
Date of public consultation	26.06.2025, Thursday at 11:00 AM
Venue	Panchayat Bhawan Dhaurai, Tehsil – Pali, District - Umaria, Madhya Pradesh.
Presiding Officer	<p><b>Chaired by:</b></p> <p>Ambikesh Pratap Singh, Sub-Divisional Officer (R.), Pali, District: Umaria (MP).</p> <p>Mukesh Srivastava, Regional Officer, MP Pollution Control Board, District: Shahdol (MP)</p>

Number of Person Attend Hearing	157
umber of representations received in writing from the district and outside of district, please give details	Umaria District: 14 Nos. Outside of District: 3
Major, issues raised	Employment & Livelihood, Education, Health, Environment, Water and sanitation, Women Empowerment, Rural Infrastructure Development, Sports promotion etc. Budget proposed for addressing the issues raised during Public Hearing is Rs. 500 Lakh.

**Proposed Physical Targets for Addressing Issues of Public Hearing as per MoEF&CC, OM Dated 30.09.2020 & 20.10.2020**

S. No.	Focus Area	Proposed Activities	Location	Budget (Rs. In Lakh)					
				1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	
1	Education & Sports Facilities	White boards (06), Smart Class boards (06) & projectors (06) and computers (12)	Dhaurai, Arjuni, Badhwahi, Pahadia	05	05	05	05	05	25
		Providing infrastructure to Govt. Schools like study tables (80), Benches (80), Chairs (120)		05	03	03	03	03	17
		Facility of toilets (06)		02	02	02	02	02	10
		Distribution of Sports kit to children (100)		05	08	08	04	04	29
		Facilitate willing student for preparation for Competitive Exam like NEET, JEE, UPSC, GATE (06)		10	05	05	05	05	30
		Solar Panels (10KW) & light etc. (06 nos) 01 in each School		10	10	10	10	10	50
		Provide RO Plant(250 LPH) facility (06 nos, 01 in each School/Common Center)		5	5	5	-	-	15
2	Health & Care Facilities	Strengthening and Upgradation of Existing Primary Health Centre & Community Health Centre in surrounding villages	Dhaurai, Arjuni, Badhwahi, Pahadia	-	15	10	-	-	25
		➢ Strengthening and Upgradation of Existing Veterinary Health Centre ➢ Organize Medical Camps (30) (Eye, Dental etc.) ➢ Asha Health Worker support, Awareness Programme for Pregnant & Adolescent Women (10) ➢ Vending machine of Sanitary napkins (10)	Dhaurai, Arjuni, Badhwahi, Pahadia	10	05	05	05	05	30
		Two Ambulance facility for nearby Villages	Dhaurai, Arjuni, Badhwahi, Pahadia	15	15	-	-	-	30
3	Skill Development	Facilitating skill training to unskilled & unemployed youth by providing vocational training	Dhaurai, Arjuni, Badhwahi, Pahadia	10	5	5	5	5	30
		Women Empowerment through Self Help Groups viz. Stitch Training, Beautification, Pickle Making, small business and trading, and craft-based activities like making foot mats or areca plates etc.	Dhaurai, Arjuni, Badhwahi, Pahadia	05	03	03	03	03	17
		Training of farmers or farmers groups in different agricultural methods (MODERN METHODS), Training to farmers to grow the Cash crops to enhance agricultural growth, Dairy farming/ Poultry farming/ Goatery	Dhaurai, Arjuni, Badhwahi, Pahadia, Pali	03	03	03	03	03	15
4	Environment	➢ Pond deepening ➢ Construction of Water Check Dam in nearby Villages for increased ground water level (01)	Dhaurai, Arjuni, Badhwahi, Pahadia	10	05	04	04	04	27
		Provide RO Plant (1000 LPH) facility (04 nos, 01 in each Village)	Dhaurai, Arjuni, Badhwahi, Pahadia	-	05	05	05	05	20

S. No.	Focus Area	Proposed Activities	Location	Budget (Rs. In Lakh)					
				1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	
		Handpump/tubewell (02 in each Village)		05	05	05	05	05	
		Free distribution of 20,000 Plants (5000 in each village) under Ek Ped Maa Ke Naam						25	
		Plantation at prominent public places		10	05	05	05	05	
		Plantation in School & Aganwadi						30	
5	Infrastructure Development/Community Welfare	➤ Strengthening/maintenance of village roads in surrounding near Plant	Dhaurai, Arjuni, Badhwahi, Pahadia						
		➤ Providing culverts, Street Lights		15	10	10	10	05	
		➤ Toilet construction (02 in each village) in association with Govt. Schemes,						50	
		➤ Upkeeping of Sport Playground in villages (04)		5	5	5	5	25	
		Upkeeping of Community Centre in villages (04)							
		Providing Financial Assistance to BPL families for installation of Roof Top Solar Panels under PM Surya Ghar Muft Bijli Yojana of around 1 MW (1000 Household x 1 KW On-grid RTS)	Dhaurai, Arjuni, Badhwahi, Pahadia	6	6	6	6	6	
Total				136	125	104	85	80	
								530	

**36.1.8: Project Cost and EMP Cost:** The total capital cost for the said project is Rs. 547 Crores. Capital cost for environmental protection measures is proposed as Rs. 3921.42 Lakh including PH Budget: Rs. 500 Lakh & Budget for WLCP Approval: Rs. 1157.30 Lakh. Recurring cost for environmental protection measures for the said project is Rs. 154.96 Lakh/Annum. The employment generation from the proposed project is 750.

The details of cost for environment protection measures as follows:

S. No.	Activities	Capital Cost (Rs. In Lakh)	Recurring Cost (Rs. In Lakh)
<b>i. Mitigative Measures</b>			
1.	Greenbelt/plantation covering an area of 8.663 Ha (21663 Saplings @ 2500 per Ha).	43.32	1.0
2	Rain Water Harvesting Structure	45	12.0
3	Pond Rejuvenation	35	8.0
4	Water Shed Management Plan	21.80	3.26
5	Construction of garland drains around coal stockpile pond.	30	6
6	Fog Canons/mist sprayers will be installed at various locations in the mine area	25	2.5
7	Installation of water sprinklers on conveyer	3	0.5
8	Permanent water sprinkling arrangements for main haulage Road	30	1.0
9	Mobile water tanker for water sprinkling on other roads and mining areas	20	1.0
10	Installation, operation & maintenance of bag filter	30	3.0
11	Auto/ Remote controlled water system for dust suppression	50	5
12	Construction of Bye Pass Road including widening and strengthening of existing public road of 2.5 Km for Transportation of Coal up to NH-43	1000	-
13	Solar power facility proposed to be installed as energy conservation	9	2
14	Installation/ Operation and Maintenance of WTP of 6000 KLD	700	15
15	<b>Budget proposed for Wildlife Conservation financial outlay for Schedule I Species</b>	1157.30	-
<b>Sub Total</b>		<b>3199.42</b>	<b>60.26</b>
<b>ii. Monitoring</b>			
1	Installation of continuous Ambient Air Quality Monitoring Station	70	3

S. No.	Activities	Capital Cost (Rs. In Lakh)	Recurring Cost (Rs. In Lakh)
2	Fugitive/ Underground Air Quality Monitoring	10	3
3	Ground water quality Analysis including Heavy metals (Quarterly)	0	1.5
4	Ambient Noise Monitoring (Quarterly)	3	0.5
5	Soil Monitoring (Half Yearly)	-	0.2
6	Work Place Noise Level Monitoring (Quarterly)	2	0.5
7	Providing PPEs to mine workers	15	10
8	Ultimate & Proximate Analysis of Coal on Annual Basis	2	1
<b>Sub Total</b>		<b>102</b>	<b>19.7</b>
<b>iii. Others</b>			
1	Occupational Health Check-up of Mines Employees	15	3
2	Installation of Piezometer in & around ML Area	5	1
3	Setting up of Laboratory for Monitoring	-	50
4	Digital mapping of entire mine area once in 3 years (Rs. 4.5 Lakh once in 3 years)	-	1.5
5	Third Party Annual Audit for Compliance of EC Conditions	-	4.5
6	<b>Others, if any contingencies, unplanned</b>	<b>100</b>	<b>15</b>
<b>Sub Total</b>		<b>120</b>	<b>75</b>
<b>Grand Total</b>		<b>3421.42</b>	<b>154.96</b>
<b>D</b>	<b>Budget for Addressing the Public Hearing Issues</b>	<b>530</b>	-
<b>Grand Total</b>		<b>3951.42</b>	<b>154.96</b>

### 36.1.9: Details of Solid and Hazardous Waste:

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1.	Solid Waste (Domestic Waste)	Mine Site	15	Organic Composter and Vermi-Compost Pits.	The same will be used as manure in greenbelt- By Road
2.	Plastic Waste (Packing material)	Equipment/components/ spare parts packing	0.5	-	Through registered agencies - By Road
3.	E-waste IT equipment, electronic parts, cartridges of printer)	Laptops/Desktops/ Servers/Printers/Electronics equipment.	160	-	Through registered vendors -By Road
4.	Batteries Waste (Dry Battery)	Caplamp-350, UPS-40 Machineries-12, FSV-3	83	-	Returned to OEM/ Supplier - By Road
5.	Hazardous Waste (Used Oil & Lubricants)	Machineries	45	-	Sold to the authorized CPCB recyclers through Registered Agencies - By Road
6.	C & D Waste (Workshop, pump & pipes & UG Equipment's)	Mine Site	335	-	To be sent to authorized recyclers/ vendors – By Road
7.	Biomedical waste (Waste sharps including metals, Contaminated Waste (Recyclable),	First Aid Centre	-	-	Common Bio-Medical Waste Treatment Facility

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
	Glassware, Anatomical Waste, Soiled Waste, Expired medicine)				

**36.1.10: Power Requirement and details of diversion of Hi-tension/ Transmission line:**

Power requirement of the proposed mine is 10 MW and a 2 x 10 MVA, 33KV/6.6kV substation has been envisaged which will receive power at 33 KV by a double circuit overhead feeder from MPPKVVCL's substation. The power will be sourced from Singhpur substation of MPPKVVCL Shahdol of East DISCOM, Govt. of MP located around 20 KM from the block in Sohagpur Tehsil in Shahdol District or any other nearby substation. Further, PP submitted that no Hi-tension/ Transmission line is proposed to be diverted for the said project.

**36.1.11: Plantation:** Greenbelt will be developed covering an area of 8.665 ha. Approximately 21663 nos. of saplings will be planted covering an area of 8.665 ha @ 2500 saplings per Ha.

**36.1.12: Rehabilitation & Resettlement issues:** PP submitted that the proposed mine site is falling in 04 Revenue Village viz. Arjuni, Badwahi, Dhaurai & Pahadiya. Habitation of Village Arjuni, Badwahi, Dhaurai & Pahadiya lying within the mine block. Due to proposal of underground mining and only forest land will be acquired for making the surface infrastructure; hence, no relocation and rehabilitation are proposed. Therefore, R&R Plan is not applicable.

**36.1.13: 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.

**36.1.14: Details of CTE:** In compliance to the Ministry's OM dated 14.01.2025 and 08.10.2025, PP has obtained CTE vide consent no. CTE-63387, dated 24.11.2025 from MPPCB.

**36.1.15: Undertaking/ Affidavit:** PP vide an affidavit submitted the following:

1. This is a proposed mine. There is no construction done at the site.
2. There is no litigation on the project either at Hon'ble NGT or any other court of Law.
3. Total block area is 1044.819 ha; out of which, 102.961 ha is Govt. Land, 288.953 ha is Private Land and 652.905 ha is Forest Land. Proposal for diversion of 652.905 ha Forest Land as well as Surface Right for 24.191 ha was submitted vide proposal no. FP/MP/MIN/QRY/458491/2024 on 15.05.2024. Proposed project is falling in 04 Revenue Villages viz. Arjuni, Badwahi, Dhaurai & Pahadia lying within the mine block. Since this is a proposal of underground mining, no relocation and rehabilitation of Villages are proposed. Therefore, R&R Plan is not applicable.
4. There is no difference in the documents submitted i.e. Common Application Form, Form 2, EIA/EMP Report and Presentation being made to the LAC.
5. As per EIA Notification dated 14.09.2006, as amended thereof, the coal mining projects having an area > 500 ha falls under the category A of 5. No. 1' (Mining of Minerals), Project or Activity (a) (3). Thus, the Arjuni East Coal Block having an area

of 1044.819 ha which is >500 ha. Hence, it falls under Category "A". Therefore, we are submitting the Project to MoEF&CC.

Further vide an undertaking, PP also submitted that, the information provided in EC (CAF, PART A, PART B & PART C) in .pdf format in PARIVESH, to the Ministry/EAC members and PPT presentation during the EAC meeting to be held on 08.12.2025 have no deviation in respect of the Proposal No: IA/MP/CMIN/553409/2025 for Environment Clearance for Arjuni East Coal Mine Sohagpur Coal Field (Block Area: 1044.819 Ha) with Proposed Coal Production Capacity: 1.36 Million TPA located at Villages: Arjuni, Badwahi, Dhaurai & Pahadiya, Tehsil: Pali, District: Umaria, Madhya Pradesh by M/s. UltraTech Cement Ltd. Also, 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 and 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 Environment Clearance. PP also submitted that there is no litigation pending against and/ or land/ R&R in which the project is proposed and that for any such litigation, whatsoever, the sole responsibility will be borne by the company.

**36.1.16: Written submission:** PP submitted the following details during the meeting:

S. No.	Query raised by the EAC	Details submitted by the PP																																				
1	Details of pond rejuvenation plan	<p>The Pond Rejuvenation Plan focuses on restoring water storage capacity, improving water quality, maintaining ecological balance and encouraging community involvement to ensure long-term sustainability. Key rejuvenation measures include cleaning, dredging, pre-treating inflows, diverting pollutants, treating water, and installing aerators. Preserving these ponds is essential to retain their ecological and hydrological benefits.</p> <p>Main objective/ work involve in Pond Rejuvenation is given below:</p> <ul style="list-style-type: none"> <li>➢ Removal of accumulated silt to restore original depth.</li> <li>➢ Uniform grading of pond bed to improve storage and infiltration.</li> <li>➢ Safe disposal or reuse of desilted material for bund strengthening or agriculture.</li> <li>➢ Enhancement of groundwater recharge through artificial recharge structures like recharge structure.</li> <li>➢ Pond deepening will be done upto 3m depth as suggested by the NIH, Roorkee.</li> </ul> <p>The company selected ponds for rejuvenation located in Arjuni, Badwahi and Darwahi Village. Pond Rejuvenation details are given below:</p> <p style="text-align: center;"><b>Table – 1</b> <b>Pond Rejuvenation Details</b></p> <table border="1"> <thead> <tr> <th>Pond No.</th><th>Khasra No.</th><th>Longitude</th><th>Latitude</th><th>Area (Ha)</th><th>Land type</th></tr> </thead> <tbody> <tr> <td colspan="6"><b>Arjuni Village</b></td></tr> <tr> <td>PND 1</td><td>383</td><td>81.28835</td><td>23.35766</td><td>1.011</td><td>Govt. Revenue Land</td></tr> <tr> <td>PND2</td><td>154</td><td>81.27409</td><td>23.3626</td><td>0.15</td><td>Govt. Revenue Land</td></tr> <tr> <td>PND 3</td><td>232-233</td><td>81.28247</td><td>23.36364</td><td>0.5</td><td>Govt. Revenue Land</td></tr> <tr> <td>PND</td><td>153/1</td><td>81.27403</td><td>23.36537</td><td>0.63</td><td>Govt.</td></tr> </tbody> </table>	Pond No.	Khasra No.	Longitude	Latitude	Area (Ha)	Land type	<b>Arjuni Village</b>						PND 1	383	81.28835	23.35766	1.011	Govt. Revenue Land	PND2	154	81.27409	23.3626	0.15	Govt. Revenue Land	PND 3	232-233	81.28247	23.36364	0.5	Govt. Revenue Land	PND	153/1	81.27403	23.36537	0.63	Govt.
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S. No.	Query raised by the EAC	Details submitted by the PP					
		6					Revenue Land
	<b>Bardwahi Village</b>						
	PND 4	813	81.28847	23.36419	0.7	Govt. Revenue Forest Land	
	PND 5	798	81.28851	23.36944	0.35	Govt. Revenue Forest Land	
	PND 8	796	81.28506	23.36673	0.7	Govt. Revenue Forest Land	
	PND 9	793, 776	81.28452	23.36866	0.5	Govt. Revenue Forest Land	
	<b>Dhaurai Village</b>						
	PND 7	864	81.28239	23.36935	0.3	Govt. Revenue Land	
	PND 10	701	81.27279	23.37338	0.15	Govt. Revenue Forest Land	
	PND 11	707	81.27112	23.37389	0.42	Govt. Revenue Forest Land	
	PND 12	693, 691	81.27402	23.37525	1	Govt. Revenue Land	
	PND 13	551, 550, 552	81.28108	23.37953	0.97	Private Land	
	PND 14	632	81.28542	23.375	0.2	Private Land	
	PND 15	Comp No 213	81.2786	23.34511	1.21	Reserve Forest land	
2	Details of Water Shed Management Plan along with its budgetary provision	<p>It spans an area of approximately 8.791 ha of total 15 ponds in lease area, with an average depth of 2 m. The capital cost is Rs. 35 Lakh and recurring cost is Rs. 8.0 Lakh.</p> <p>The proposed underground mining project is designed to avoid direct disturbance to the forest surface, the surrounding 652.905 ha of forest land may experience indirect ecological stress due to dust deposition, soil compaction, and changes in infiltration and runoff patterns. To mitigate these impacts and ensure long-term ecological sustainability, an Irrigated Plantation Scheme is integrated with a Watershed Management Plan to enhance soil moisture retention, biodiversity, and forest resilience within the undisturbed forest land.</p> <ul style="list-style-type: none"> <li>➤ Plantation will be carried out on degraded or open forest patches using native, hardy species (timber, fruit-bearing, medicinal, fodder, grasses). Saplings will be planted in pits (30–45 cm) at 2×2 m or 3×3 m spacing</li> </ul>					

S. No.	Query raised by the EAC	Details submitted by the PP																																				
		<p>during monsoon, with compost, neem cake, and mulching support.</p> <p>➤ Pond No. 15 (1.21 ha) is the main water source, supported by check dams, trenches, and possible treated mine water. Water will be stored in 10,000 Liter tanks, distributed through HDPE pipelines, with drip irrigation for saplings and sprinkler/manual irrigation for grasses.</p> <p>For covering 20 ha area capital expenditure (one-time investment) is Rs. 21.80 Lakh and annual recurring expenditure (maintenance and monitoring costs) is Rs. 3.26 Lakh.</p> <p>In detail Water Shed Management Plan is submitted.</p>																																				
3	Details of subsidence analysis	<p>To know the impact of land subsidence due to underground mining a three-dimensional subsidence prediction due to underground mining for Arjuni East Coal Mine was carried out by the Professor (Dr.) Ashok Kumar, Assistant Professor &amp; Project Leader, Department of Mining Engineering of Indian Institute of Technology (Indian Schools of Mines) Dhanbad, Jharkhand.</p> <p>The subsidence prediction is done at surface under multi-seam condition for coal seams IIIT and IIB/BB/BBB. The values of maximum subsidence and maximum tensile strain are predicted at each grid point with the help of numerical simulation for the proposed panels in coal seams IIIT and IIB/BB/BBB. The layout of all the panels is designed in such a manner that no impact of underground mining would influence the surface structures and features lying in the Arjuni East Coal Block. The predicted maximum subsidence and tensile strain at different stages due to extraction of panels as per the sequence of depillaring are given in Table below:</p> <p><b>Table - 2</b>  <b>Predicted Maximum subsidence and tensile strain</b></p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Year of Interval</th> <th>Max. Subsidence (mm)</th> <th>Max. Tensile Strain (mm/m)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0-5</td> <td>0.5</td> <td>0.1</td> </tr> <tr> <td>2</td> <td>5-10</td> <td>35</td> <td>0.5</td> </tr> <tr> <td>3</td> <td>10-20</td> <td>110</td> <td>1.0</td> </tr> <tr> <td>4</td> <td>End of Life</td> <td>215</td> <td>2.5</td> </tr> </tbody> </table> <p><b>Source:</b> Subsidence Study Report</p> <p>The maximum cumulative subsidence and tensile strain at the surface after end of the mine life is anticipated to be 215 mm and 2.50 mm/m respectively. Subsidence and tensile strain rate, likely to be experienced after end of the mine life by different surface structures due to underground mining in Arjuni East Coal Block is given below:</p> <p><b>Table - 3</b>  <b>Subsidence and tensile strain different surface structures</b></p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Name of Surface Structure</th> <th>Max. Subsidence (mm)</th> <th>Max. Tensile Strain (mm/m)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Badwahi Village • Higher Secondary School • Kher Mata Mandir • 4 nos. of village Pond (Talaab)</td> <td>120</td> <td>1</td> </tr> <tr> <td>2</td> <td>Dhaurai Village • Health &amp; Wellness Center • Government High School • Kher Mata Mandir • 11 nos. of Village Pond (Talaab)</td> <td>165</td> <td>1</td> </tr> <tr> <td>3</td> <td>Arjuni Village • Kher Mata Mandir • Government Primary School • Government High School</td> <td>150</td> <td>1</td> </tr> </tbody> </table>	S. No.	Year of Interval	Max. Subsidence (mm)	Max. Tensile Strain (mm/m)	1	0-5	0.5	0.1	2	5-10	35	0.5	3	10-20	110	1.0	4	End of Life	215	2.5	S. No.	Name of Surface Structure	Max. Subsidence (mm)	Max. Tensile Strain (mm/m)	1	Badwahi Village • Higher Secondary School • Kher Mata Mandir • 4 nos. of village Pond (Talaab)	120	1	2	Dhaurai Village • Health & Wellness Center • Government High School • Kher Mata Mandir • 11 nos. of Village Pond (Talaab)	165	1	3	Arjuni Village • Kher Mata Mandir • Government Primary School • Government High School	150	1
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S. No.	Query raised by the EAC	Details submitted by the PP			
			• 6 nos. of Village Pond (Talab)		
	4	Forest Area • 3 nos. of Pond (Talab)	200	2	
	5	Water Bodies • Baghaunara Nala in South-Central Part passing through Lease Hold Boundary from West to East • Harhar Nala in North-Eastern Part.	200	2	
		<p><b>Source:</b> Subsidence Study Report</p> <p>Regular observation and inspection of the surface is important for getting a prior indication of any changes that might occur due to mining. Precautions are to be taken to fill the visible/anticipated cracks in advance, if any, to restore the land in its original position. The findings of this scientific study suggest the adopted mining method as safe considering the subsidence.</p> <p>Three-dimensional numerical simulation technique is adopted for the subsidence prediction due to extraction by Bord &amp; Pillar mining method with caving using Continuous Miner technology in Arjuni East Block. Results of numerical simulation found that the maximum values of subsidence (vertical displacement) and tensile strain rate are under safe limits and do not affecting the surface dangerously. It is proposed to carry out mining operations cautiously below waterbodies with continuous filling of cracks around, if appears on the surface.</p> <p>Copy of the subsidence study report is submitted.</p>			
4	Committee observed that there are Schools present within proposed mine block, details of facilities to be provided to be submitted.	<ul style="list-style-type: none"> <li>➤ There are 02 Upper Primary Schools, 03 Primary Schools and 01 higher secondary school located within mine block. As this proposal is for underground mining; hence, no impact on school and relocation/shifting is envisaged due to proposed mining activity.</li> <li>➤ During mining precautionary and mitigative measures will be adopted.</li> <li>➤ Besides this, Solar Panels (10 KW) &amp; light etc. (06 nos) in each School, budget proposed for this Rs. 50 Lakh.</li> <li>➤ Provide RO Plant (250 LPH) facility (06 nos, 01 in each School), budget proposed for this Rs. 15 Lakh.</li> <li>➤ Education &amp; Sports Facilities will also be provided in these schools and activities along with budget included in Proposed Physical targets.</li> </ul>			
5	Revised physical targets of PH action plan	<p>As suggested, for Strengthening and Upgradation of Existing Primary Health Centre &amp; Community Health Centre in surrounding villages to be increased from Rs. 15 Lakh to Rs. 25 Lakh.</p> <p>Solar Panels with approx. 1.0 MW Capacity (1000 Household x 1 KW On-grid RTS), to be installed by providing financial assistance to BPL families for installation of Roof Top Solar Panels under PM Surya Ghar Muft Bijli Yojana. Budget proposed for the same is Rs. 30 Lakh.</p> <p>Physical targets have been updated and budget has been increased from Rs. 500 Lakh to Rs. 530 Lakh.</p>			
6	Details of Sensitive Receptors located within 10 km should be submitted.	<p>Details of Sensitive Receptors located within 10 km viz. Habitation, School, Water Bodies, Reserved/Protected Forest, Industries/ Mines and Health Centres is submitted.</p>			
7	Detailed Ecology & Biodiversity study	<p>Detailed Ecology &amp; Biodiversity study of proposed mine was done by the Akshya Singh (Ret. IFS), Approved FAE.</p> <p>There are 5 reserve forests and 9 protected forests within 10 km study area. The forests of the study area fall in Umaria Forest Division. As per Champion &amp; Seth Classification, major forest type observed in the project and the study</p>			

S. No.	Query raised by the EAC	Details submitted by the PP
		<p>area is Tropical Moist deciduous forest. The forest density is fairly degraded and open.</p> <p>The structure and composition of flora in any geographic location reflect the prevailing climatic and physiographic conditions.</p> <p><b>Flora:</b> The structure and composition of flora in any geographic location reflect the prevailing climatic and physiographic conditions.</p> <p><b>Core Zone:</b> The core zone is virgin land where mining is proposed to be carried out. The natural vegetation in the core area includes trees, shrubs, herbs etc. Tree species namely Bel (<i>Aegle marmelos</i>), Tendu (<i>Diospyros melanoxylon</i>), Mahua (<i>Madhuca longifolia</i>), Neem (<i>Azadirachta indica</i>), Sal (<i>Shorea robusta</i>), Safed siris (<i>Albizia procera</i>), Bargad (<i>Ficus benghalensis</i>) etc. Shrub individuals were Aak (<i>Calotropis procera</i>), Neel (<i>Indigofera pulchella</i>), etc. Ground vegetation includes grasses such as Doob (<i>Cynodon dactylon</i>), Fuli grass (<i>Apluda mutica</i>), Moya (<i>Pennisetum hohenackeri</i>) etc.</p> <p><b>Buffer zone:</b> The flora of study area, apart from fruit bearing trees, also has ethnno medicinal vegetation which villagers use generally for treatment. Common species of trees found are Bel (<i>Aegle marmelos</i>), Mahua (<i>Madhuca longifolia</i>), Tendu (<i>Diospyros melanoxylon</i>), Mango (<i>Mangifera indica</i>), Sinduri (<i>Mallotus philippensis</i>), Sal (<i>Shorea robusta</i>), Arjun (<i>Terminalia arjuna</i>), Peepal (<i>Ficus religiosa</i>), Bargad (<i>Ficus benghalensis</i>), Jamun (<i>Syzygium cumini</i>), etc. Shrubs and herbs are Aak (<i>Calotropis gigantea</i>), Sitaphal (<i>Annona squamosa</i>), Pind Khajoor (<i>Phoenix acaulis</i>), Harsingar (<i>Nyctanthus arbortristis</i>), etc. Climbers found are Doodh bel (<i>Vallaris solanaceae</i>), Shatavari (<i>Asparagus racemosus</i>), Palasbel (<i>Butea superba</i>) etc. and grasses are Doob (<i>Cynodon dactylon</i>), Bans (<i>Dendrocalamus strictus</i>) etc.</p> <p><b>Fauna:</b> The diversity of fauna depends upon density and diversity of flora of the area. The study area has tropical dry deciduous and northern tropical thorn vegetation. It is important to conserve, protect and improve the habitat of the fauna to maintain ecological balance and sustainability in the area.</p> <p><b>Core Zone:</b> Due to presence of forest in the mine lease area, faunal species are present in ML area. Fauna in core zone comprises species of mammals, aves, reptiles and amphibians and fishes. Mammals include bat, hare, monkey, etc. Aves such as myna, heron, blue rock pigeon, cuckoo, egret, house crow etc. and reptiles and amphibians include krait, sand boa, toad, etc.</p> <p><b>Buffer Zone:</b> The 10 km radius study area is home to several species of mammals, reptiles and aves. Fauna in buffer zone are in the form of mammals, aves, reptiles and fishes.</p> <p>Various fish species inhabit the water bodies in the area. Mammal species include wolves, porcupines, hares, deer, nilgai, langurs, bats, mongooses and squirrels. The avifauna consists of jungle mynas, house crows, house sparrows, spotted doves, black drongos, kites and peafowls. Reptiles and amphibians found in the area include lizards, pythons, cobras, frogs, and toads. Fish species present are rohu, mrigal, and catla.</p> <p>Copy of the Ecology &amp; Biodiversity study is submitted.</p>
8	Details of gap plantation	<ul style="list-style-type: none"> <li>➤ This is proposed underground mine and total area to be disturbed is 24.191 ha for making the surface infrastructure for mining purpose.</li> <li>➤ Out of the 24.191 ha area; 8.665 ha area to be developed within 5 years under greenbelt/plantation within &amp; around facilities.</li> <li>➤ Out of the 24.191 ha area; 14.656 ha area will be used for making the surface infrastructure viz. Roads &amp; Infrastructure: 14.656 ha, for UG entry: 0.540 ha, for Top Soil Dump: 0.115 ha &amp; for Settling Pond: 0.215 ha.</li> <li>➤ Thus, total area use for the mining purpose is 15.526 ha.</li> <li>➤ At end-of-life stage, this area will also be reclaimed and rehabilitated by plantation. At post closure stage, total reclaimed area is 24.191 ha and same will be returned to the Forest Dept.</li> <li>➤ Approx 8353 nos of trees including 5600 nos of the Amla Plantation will be cut down for making the surface infrastructure (Reserve Forest-22.241</li> </ul>

S. No.	Query raised by the EAC	Details submitted by the PP
		<p>Ha - Tree-8315 including 5600 Amla Plantation and Revenue Forest-1.95 Ha - Tree-38; Total nos of Plants: 8353).</p> <ul style="list-style-type: none"> <li>➤ To compensate the tree felling 10 times more plantation should be carried out.</li> <li>➤ Therefore, remaining, 8.665 ha area will be developed under the greenbelt/plantation development within and around the mine facilities within 5 years.</li> <li>➤ Approximately 21663 nos. of saplings will be planted covering an area of 8.665 ha @2500 saplings per ha.</li> <li>➤ Rs. 43.32 Lakh have been earmarked for greenbelt &amp; plantation till the end of life of mine @ Rs. 200/sapling.</li> <li>➤ Gap plantation (80,000 nos) will be done in consultation with forest department and the required fund i.e. Rs. 100 Lakh for gap planting has been allocated.</li> <li>➤ Local and fruit bearing species will be planted in consultation with Forest Department.</li> <li>➤ Company will try to maintain the survival rate more than 90%.</li> <li>➤ Species selected for greenbelt &amp; plantation are <i>Terminalia arjuna</i> (Arjun), <i>Acacia nilotica</i> (Babool), <i>Ficus religiosa</i> (Pipal), <i>Azadirachta indica</i> (Neem) <i>Bauhinia variegata</i> (Kachnar), <i>Syzygium cumini</i> (Jamun), <i>Cassia fistula</i> (Amaltas), <i>Delonix regia</i> (Gulmohar), <i>Mangifera indica</i> (Mango), <i>Madhuca indica</i> (Mahua), <i>Dalbergia sissoo</i> (Shisham), <i>Butea monosperma</i> (Palash) etc.</li> <li>➤ The plant species will be selected as per CPCB guidelines and as per Air Pollution Tolerance Index (APTI).</li> </ul> <p>Besides this, strong &amp; rugged fencing also to be developed around the infrastructure.</p>

### Deliberations and Observation of the Committee:

#### 36.1.17: The Committee noted the following:

1. The instant proposal is for grant of environment clearance to M/s. UltraTech Cement Ltd. for Arjuni East Coal Mine Sohagpur Coal Field (ML Area: 1044.819 Ha) with Proposed Coal Production Capacity: 1.36 MTPA located at Villages: Pahadiya, Dhaurai, Arjuni and Badwahi, Tehsil: Pali, District: Umaria, State: Madhya Pradesh.
2. The instant proposal is a Greenfield underground mining project.
3. 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.
4. Project does not fall in the Critically Polluted Area/ Severely Polluted Area, as per CEPI Assessment 2018.
5. The project involves total 652.905 Ha. of forestland. Application for the same has been submitted vide Proposal No. FP/MP/MIN/QRY/458491/2024, dated 15.05.2024 by the PP and Stage-I Forest Clearance is yet to be obtained. There is no forestland broken till date and the said project does not involves violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980. Member Secretary apprised the EAC that, as per OM dated 09/09/2011, after the EAC has recommended the project for environmental clearance, it would be processed on file for obtaining decision of the Competent Authority for grant of environmental clearance. In the cases where the Competent Authority has approved the grant of environmental clearance, the proponent will be informed of the same and a time limit of 12 months will be given to submit the requisite Stage – I forestry clearance. On receipt of the same, formal EC letter will be issued by

the Ministry.

6. The project is not located within 10 KM of any ESZ/ ESA/ National Park/ Wildlife Sanctuary/ Biosphere Reserve/ Tiger Reserve/ Elephant Reserve/ Elephant Corridor etc. However, there is a tiger corridor at a distance of 7.13 km, connecting Bandhavgarh National Park and Achanakmar Wildlife Sanctuary. Location Map has been Authenticated by the Range Officer, District Forest Officer, Dhamakor (Umaria) and Deputy Director, Bandhwgarh Tiger Reserve, Umaria (MP) Vide Letter No. Maa. Chi./2431, Umaria, dated 11.04.2025. Committee deliberated on the mitigation measures proposed to be followed for the said tiger corridor and PP submitted the same. Committee opined that all the mitigation measures shall be diligently followed in a time bound manner.
7. According to Wildlife (Protection) Act 1972 and its Amendment, Schedule – I species (namely: Sambar, Sloth Bear, Tiger, Leopard, Jungle Cat, Wild Dog, Rat Snake, Cobra, Indian Rock Python, Common Monitor Lizard, Russell's Viper, Common Pochard, White-eyed Buzzard, Common Greenshank Indian Peafowl) were found within the study area. A detailed Wildlife Conservation Plan has been prepared for considering the estimated budget for the conservation of the same is Rs. 1157.30 Lakh & submitted for further approval to APCCF (Wildlife), Bhopal through DFO, Umaria vide Ref. No. UTCL/AECM/2025-26/100, dated 06.06.2025. Committee opined that the allotted budget shall be deposited with the wildlife division at the earliest.
8. Committee deliberated on the sensitive receptors present within the ML area and within the buffer zone. Committee observed that there are several schools present within the study area and there are 02 Upper Primary Schools, 03 Primary Schools and 01 higher secondary school located within mine block. Committee sought the details of the facilities to be provided to the schools within close vicinity of the ML area. PP submitted that facilities such as solar lights, RO plants and education and sports facility will be provided in these schools. Apart from this the Committee opined that thick plantation shall be carried out around these schools with the native species within 2 years from the date of grant of EC by planting saplings of not less than 4 feet height. Apart from this, PP shall install solar lights and make the provision for drinking water and the sanitary water in the said schools.
9. The ToR for the said project was granted vide letter dated 17.02.2025 and the same was amended vide letter dated 26.05.2025.
10. Mining Plan for 1.36 MTPA capacity for underground mining operation was approved by MOC vide Letter No. ARJUNI EAST COAL MINEMPMP043/AP00258/2023, dated 12.01.2024. Minor updatations/changes in Approved Mining Plan & Mine Closure Plan of Arjuni East Coal Mine under Para 2.9 (b) - Revision of Mining Plan, Mining Plan Guidelines for Coal & Lignite Mine 2025, dated 31.01.2025, Revision-01, has been done at all respective places in the Mining Plan and approval has been obtained from the Board of Director, dated 23.04.2025 and same has been submitted to the Ministry of Coal, Govt. of India, vide Ref. No. UTCL/SDL/AE/MINING PLAN/2020/202, dated 05.05.2025.
11. Total geological reserve reported in the mine lease area are 146.480 Million Tonnes with 54.9180 Million Tonnes mineable reserves. Out of total mineable reserves, 28.30 Million Tonne reserves are available for extraction. Percent of extraction is 21.4670%. Total 14 seams are available within mine area, out of which 04 seams are workable with thickness ranging from 0.30 m to 7.56 m. Grade of coals G9-G16. Life of mine is 27 years.

12. Committee deliberated on the issues related to subsidence, since the proposed mine is an Underground Mine. As per the study carried out for subsidence by IIT-ISM Dhanbad, the effect of subsidence will be negligible from the said project. Committee opined that the PP shall carryout mining operations cautiously below the water bodies with continuous filling of cracks around, if appears on the surface.
13. Committee deliberated on the method of evacuation of coal proposed for the said project and observed that the coal from the UG mine will be transported through conveyor belt which will discharge into 3x150 tonner bunker which will be installed at surface. Coal from the bunker storage will be loaded onto the trucks. Coal transportation will be done for Initial 5 year 100% by road, after development of railway siding by road as well as by road & railway siding to end users. Coal will be transported through road from the start of coal production (2029-2030) up to year 2033-2034; the coal from the bunkers will be loaded in covered trucks and transported by village road covering 3.8 km. distance (Aerial Distance: 2.5 km) upto NH-43 for onward delivery to UTCL Cement Plants (~150 km to ~190 km).

Besides this, from the year 2034-2035 i.e. 1.36 MTPA coal production, the coal will be transported up to NH 43 by covered trucks covering 3.8 km distance via road and further from NH 43 to Bandhwabara Railway Siding covering 4.7 km distance via road. Therefore, total distance through the road transportation is 9.0 km. Widening & strengthening of existing road along with the construction of bypass road is also proposed by the PP. Further, Committee opined that plantation with the native species (of height not less than 4 feet) shall be done on both the side of the entire transportation road. Further PP shall also explore to deploy EV dumpers for transportation of coal. Also, PP 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.

14. The baseline data for the said project has been carried out during October – December 2023. The environmental parameters are observed to be within the prescribed norms. As committed by the PP, 2 nos. of CAAQMS will be installed in the said mines, one each in the core zone and the buffer zone.
15. The water requirement for the said project is observed to be 1300 KLD (72 KLD for domestic use and 1228 KLD for industrial use), same will be sourced from ground water & mine seepage. NOC regarding ground water withdrawal (100 KLD) and seepage (1453 KLD) has been obtained from CGWA on 12.08.2025 and it is valid up to 11.08.2027. The excess water will be treated and will be given to the farmers for agriculture purpose. The mine site is drained by two small nala. One nala flows north westerly in northern part while second nala flows easterly in southern part of the proposed mine. No diversion of Nala is proposed and the subject mine will be an underground.
16. Committee further sought a pond rejuvenation plan from the PP. PP submitted the details of 15 nos of ponds located in Arjuni, Badwahi and Darwahi Villages. And allotted a budget of capital cost of Rs. 35 Lakh and recurring cost of Rs. 8.0 Lakh for the same. Committee opined that the same shall be implemented in a time bound manner.
17. Committee also sought the details of watershed management plan including of forest area along with the budgetary provisions. PP submitted the same along with the capital expenditure of the same as Rs. 21.80 Lakhs and recurring expenditure of Rs. 3.26 lakhs per annum, which is very less for even for forest area of 652.905 Ha. Committee opined

that the budget for the same should be increased in consultation with the forest department, same shall be implemented in a time bound manner.

18. Committee deliberated on the public hearing conducted for the said project. The same was conducted on 26.06.2025 and approx. 157 persons attended that. Total 17 nos of written representation were received from within and outside the district. The PH action plan submitted also included the CSR activities. Committee found the PH action plan to be inadequate and sought a rectified PH action plan and PP submitted the same. The total amount proposed to be spent is Rs. 530 Lakhs. Committee opined that the same shall be utilized in the time bound manner.
19. Committee deliberated on the EMP budget submitted by the PP and observed that the capital cost allotted is Rs. 3951.42 Lakhs (including PH Budget: Rs. 530 Lakh & Budget for WLCP Approval: Rs. 1157.30 Lakh) and recurring cost allotted is Rs. 154.96 Lakh/ Annum. Committee opined that the same shall be used in a time bound manner.
20. Power requirement of the proposed mine is 10 MW and a 2 x 10 MVA, 33KV/6.6kV substation has been envisaged which will receive power at 33 KV by a double circuit overhead feeder from MPPKVVCL's substation. Further, no Hi-tension/ Transmission line is proposed to be diverted for the said project.
21. Committee deliberated on the plantation plan submitted by the PP and observed that, greenbelt is proposed to be developed in 8.665 ha area, i.e. 0.829% of the total ML area and 35.81% of the total disturbed area i.e. 24.191 ha. A 5-10m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover within 3 years from the date of obtaining the EC by planting the saplings of not less than 4 feet height as per CPCB/MoEF&CC, New Delhi guidelines. Local and Native species will be planted with a density of 2500 trees per hectare. Total no. of 21,663 saplings will be planted of not less than 4 feet height. Besides this, 80000 nos of saplings will be planted as Gap Plantation in 499.06 Ha of Reserve Forest within Mine Boundary Area, in consultation with forest department or the required fund for gap planting will be transfer to forest department. Committee opined that PP shall also focus on community plantation and shall distribute fruit bearing species to the villagers to plant and nurture the same.
22. Proposed project is falling in 04 Revenue Villages viz. Arjuni, Badwahi, Dhaurai & Pahadiya lying within the mine block. Since this is a proposal of underground mining, no relocation and rehabilitation of Villages are proposed.
23. Project cost is Rs. 547 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 (Sanrakshan Evam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.
25. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components.
26. The EAC found the written submissions of the project proponent to be satisfactory.

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

**36.1.18:** In view of the foregoing and after the detailed deliberations, the Committee **recommended** the instant proposal for grant of Environment Clearance subject to uploading of written submission on PARIVESH Portal under the provisions of EIA Notification, 2006

subject to the stipulation of following specific conditions and general conditions based on project specific requirements:

**A. Specific Conditions:**

1. Project proponent shall submit the Stage – I Forest Clearance for diversion of forestland of 652.905 ha involved in the project prior to grant of Environment Clearance as per the MoEF&CC OM dated 09/09/2011 and its amendment.
2. Project proponent shall comply with all the conditions prescribed by the MPPCB in the CTE dated 24.11.2025.
3. No water body shall be diverted for the instant proposal, as committed by the project proponent. The watershed management plan shall be implemented within 2 years from the date of grant of EC.
4. As committed, the project proponent shall implement the pond rejuvenation plan for the 15 nos. of ponds as identified in the Arjuni, Badwahi and Darwahi Villages. The budget allotted for the same (of Rs. 35 Lakhs capital cost and Rs. 8 Lakhs per annum as recurring cost) as be efficiently utilized.
5. Project proponent shall install the solar lights within the ML area, schools, hospitals and mine infrastructure. Also, project proponent shall provide facilities such as RO plants, provision for sanitary water and education and sports facilities in the 6 nos. of schools located within the ML area. Thick plantation shall be carried out around these schools with the native species within 2 years from the date of grant of EC by planting saplings of not less than 4 feet height.
6. Project proponent shall comply with all the recommendations of the Subsidence Study report prepared by IIT-ISM Dhanbad, for the said project. Also, PP shall carryout mining operations cautiously below the water bodies with continuous filling of cracks around, if appears on the surface.
7. Coal is allowed to be transported by road only for the first 5 years from the date of commencement of operations. Thereafter, only 10% of the coal shall be allowed to be transported by road to the local consumers, and remaining 90% of coal production shall be transported by railways only as committed.
8. The coal transportation shall be done by tarpaulin covered trucks and plantation with the native species (of height not less than 4 feet) shall be done on both the side of the entire transportation road. Further PP shall also explore to deploy EV dumpers for transportation of coal. PP 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. Further, as committed, PP shall widen and strengthen the existing road and along with construct the bypass road within 3 years from the date of grant of EC.
9. Project proponent shall fully compensate for the damage to property, infrastructure, or community assets which may arise due to subsidence, as committed.
10. The budget proposed for PH is Rs. 530 Lakhs. The budget proposed shall be kept in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of

5 years from the date of grant of EC. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six-monthly compliance report.

11. PP shall implement the protective measure proposed in Environment Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs 3951.42 Lakhs [Capital (including budget for WLCP and Public hearing)] and Rs 154.96 Lakhs/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.
12. PP shall pay to farmers of agricultural land if there is any loss due to pollution found by concerned District Collector as per extent rules or norms. Suitable measures for enrichment of nitrogen in the soil will be taken up for improving soil fertility and effective steps will be taken to support the farming community in enhancing the production.
13. No waste shall be dumped on the forestland. PP shall use the waste generated during the installation of mine shaft and mine incline in infrastructure development.

## **B. STANDARD CONDITIONS:**

### **1. Statutory Conditions:**

- i. The Environmental Clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project.
- ii. Mining shall be carried out as per the approved Mining Plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant provisions under CMR, 2017 and circulars issued by Directorate General of Mines Safety (DGMS) from time to time.
- iii. Mining activities shall not be carried out in the forestland, until the Stage - II Forestry Clearance is obtained under the relevant provisions of Van (Sanrakshan Evam Samvardhan), Adhiniyam, 1980, for 652.905 Ha of forestland involved in the ML area.
- iv. The project proponent shall obtain prior approval / clearance from the National Board for Wildlife, if applicable.
- v. In case of the presence of Schedule-I species in the study area, the project proponent shall prepare a Conservation Plan & Wildlife Management Plan which shall be approved by the Chief Wildlife Warden. The recommendations of the approved Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of Schedule-I species in the study area).
- vi. The project proponent shall obtain Consent to Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control

of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Pollution Control Committee.

- vii. The project proponent shall obtain the necessary permission from the Central Ground Water Authority for groundwater abstraction & usage prior to commencement of mining. The proponent shall also obtain necessary permissions for drawl / usage of surface water, if applicable, prior to commencement of mining.
- viii. Solid/hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016 and subsequent amendments.
- ix. In case of diversion of water body / road / railway lines / transmission line, approval for the same from competent authority shall be submitted, as applicable.
- x. Permission of power supply to be taken from the concerned authority for meeting power demand of the project site.
- xi. The annual peak production at any given time shall not exceed the limit as prescribed in the EC.
- xii. Validity of EC shall be as per life of the mine as mentioned in EC letter or 30 years, whichever is earlier, as per EIA Notification, 2006 and its amendments therein.
- xiii. In case of change in mining method from UG to OC, prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC) shall be obtained.

### **Air Quality Mitigation Measures and Monitoring**

- i. Coal handling points like stockyards / sidings shall be equipped with effective control measures like water sprinkling, fog cannons, wind barriers, vertical greenery systems.
- ii. Effective control measures such as regular water sprinkling/rain gun/ fog cannons /mist sprinkling, etc., shall be installed in critical areas like coal transport roads, loading/unloading and transfer points.
- iii. Transportation of the coal through the existing road passing through any village shall be avoided. In such cases, it is proposed to construct a 'bypass' road, such that the impact of sound, dust and accidents could be appropriately mitigated. Major approach roads shall be black topped / made with concrete and properly maintained.
- iv. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in coal transportation shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres. The proponent must strive to use electric vehicles / eco-friendly fuel based vehicles as far as possible.
- v. In order to prevent particulates getting airborne and in order to mitigate dust concentrations, proper housekeeping shall be maintained by the project.
- vi. Plantation in core zone and along the coal transportation route shall be taken up within 2 years after issue of EC for control of air pollution. Native tree species of not less than 4 feet shall be selected for plantation.
- vii. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.
- viii. For ambient air quality monitoring, at least 4 sampling sites shall be established (of which 1 shall be situated in the upwind direction, 1 in core zone and balance 2 shall be located in the buffer zone - in downwind direction and near receptors) for

monitoring of pollutants. The frequency of monitoring for core zone shall be as per Coal Mine Standards GSR 742 (E) dated 25.09.2000 and for buffer zone shall be as per NAAQS, 2009. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. The monitoring reports shall be submitted to Regional Office of MoEF&CC and SPCB/CPCB as a part of the six monthly compliance report.

- ix. The project shall install an automatic weather monitoring station in the core zone. At least 2 online ambient air quality monitoring stations (CAAQMS) for monitoring of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub> shall be installed - one in core zone and one in buffer zone, in consultation with the SPCB. The data from the CAAQMS shall be connected to CPCB server as well as SPCB server. The calibration of CAAQMS installed shall be carried out as per the calibration protocol for CAAQMS system specified by CPCB and records shall be maintained.

### Water Quality Mitigation Measures and Monitoring

- i. The water pumped out from the mine (seepage water / mine effluent), after treatment, shall be utilized for industrial purpose viz. dust suppression on roads, plantation, and for domestic uses, etc. Balance water after treatment, if any, shall be discharged into surrounding water bodies with prior permission from concerned SPCBs/PCCs.
- ii. Industrial wastewater from workshop and/or coal handling plant, if any, shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time.
- iii. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic wastewater. The treated water, after conforming to the prescribed norms shall be reused.
- iv. Garland drains (of suitable size, gradient and length) around the critical areas *i.e.* mine shaft and low-lying areas including coal stockyards, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump capacity shall also provide adequate retention period to allow proper settling of silt material of the surface runoff. The garland drains shall be regularly desilted, particularly after monsoon and maintained properly.
- v. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side, stabilized with plantation so as to withstand the peak water pressure preventing any chance of mine inundation.
- vi. In case of diversion / straightening of any river / nallah, the same shall be done only after approval is granted by Water Resources Department / Irrigation Department / approved regulatory agency of the concerned state. Mitigation measures or management plan proposed under EIA/EMP as well as regulatory agencies as a part of the diversion plan shall be duly complied with.
- vii. Project proponent shall provide a rain water-harvesting pond in ML area in the core zone.

- viii. The effluent discharge (mine water, workshop effluent, CHP wastewater (if applicable), STP if applicable) - shall be monitored in terms of the parameters and frequency notified under the Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. The effluent samples must include raw effluent (*i.e.* upstream of treatment facility) as well as treated water (*i.e.* outlet stream from treatment facility). The monitoring reports shall be submitted to Regional Office of MoEF&CC and SPCB/CPCB as a part of the six monthly compliance report.
- ix. Project proponent shall install ground water monitoring piezometers prior to commencement of production in line with NOC issued by CGWA. The water level will be monitored for all piezometers and the record will be shared with the Regional Office (CGWB).

#### **4. Noise Prevention and Monitoring**

- i. Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work zone environment. Operational safety norms for worker safety as prescribed by DGMS for UG coal mines must be adhered to.
- ii. In case of installation of conveyors, DG sets, etc., adequate noise attenuation measures including acoustic barriers must be installed to control noise pollution.
- iii. The noise level monitoring shall be carried out as per the prescribed DGMS guidelines in the core zone to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the RO of MoEF&CC on six-monthly basis.
- iv. Ambient noise levels shall be monitored at strategic locations (at least 4 locations of which 2 to be located within the core zone at coal loading point and workshop respectively and remaining 2 to be located in buffer zones near receptors and along coal transportation route). The monitoring reports shall be submitted to Regional Office of MoEF&CC and SPCB/CPCB as a part of the six monthly compliance report.

#### **5. Risk and subsidence**

- i. Project proponent shall include adequate provisions w.r.t risk management to ensure safety of personnel engaged in mining operations and work zone environment must be maintained in conformity of relevant DGMS norms.
- ii. Regular monitoring of subsidence movement on the surface over and around the working areas and its impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings shall be continued beyond post closure period as specified in the Mine Plan/Mine Closure Plan Guidelines issued by MoC from time to time. In case of observation of any high rate of subsidence beyond the limit prescribed, appropriate effective mitigation measures shall be taken to avoid loss of life and materials. Cracks should be effectively plugged in with ballast and clay soil/suitable material.
- iii. A separate team for subsidence monitoring and surface mitigation measures shall be created at project level and continuous monitoring & implementation of mitigation measures be carried out.
- iv. Thorough inspection of the mine lease area for any cracks developed at the surface due to mining activities below ground shall be carried out to prevent inrush of water

in the mine. Native tree species shall be selected and planted over areas affected by subsidence.

## 6. Land Reclamation

- i. Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change (MoEF&CC) and shall be submitted to MoEF&CC/Regional Office (RO).
- ii. Post-mining land be rendered usable as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 31<sup>st</sup> January, 2025 and subsequent amendments. The post closure land form must be safe & stable and should incorporate repurposing activities like renewables, energy efficiency etc. as feasible.
- iii. The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.
- iv. Project proponent shall implementation 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.
- v. Greenbelt shall be developed in 8.665 ha area, i.e. 0.829% of the total ML area and 35.81% of the total disturbed area i.e. 24.191 ha. A 5-10m wide greenbelt, consisting of at least 3 tiers around mine boundary shall be developed as greenbelt and green cover within 3 years from the date of obtaining the EC by planting the saplings of not less than 4 feet height as per CPCB/ MoEF&CC, New Delhi guidelines. Local and Native species shall be planted with a density of 2500 trees per hectare. Total no. of 21,663 saplings shall be planted of not less than 4 feet height. Besides this, 80000 nos of saplings shall be planted as Gap Plantation in 499.06 Ha of Reserve Forest within Mine Lease Area, in consultation with forest department Along with this, Miyawaki plantation shall be carried out and plantation shall also be carried out in the nearby environmentally sensitive receptors. Apart from this, PP shall also carryout community plantation and shall distribute 50,000 plant saplings mostly fruit bearing species to the villagers to plant and nurture the same with incentive till the life of mine.
- vi. Watershed plan with gap Planation in Forest area shall be made with the help of Forest department and should be implemented accordingly. Budgetry provision should be submitted accordingly.

## 7. Public Hearing and Human Health Issues:

- i. Implementation of the time bound action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the time bound action plan submitted with budgetary provisions during the public hearing.
- ii. Land oustees shall be compensated as per the norms laid down in the R&R policy of

the company/State Government/Central Government, as applicable. Adequate facility of drinking water, plantation and other social amenities should be provided to established R&R villages.

- iii. The work zone environment shall be maintained as prescribed under Coal Mines Regulations, 2017 & DGMS (complying with provisions regarding illumination, temperature, humidity, dust, noise, etc.)
- iv. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of The Mines Act, 1952 and rules made thereunder and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as per Clause No. 123, 124 & 125 of Coal Mines Regulations, 2017.
- v. Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
- vi. Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.
- vii. Effective arrangement shall be made to provide and maintain sufficient supply of drinking water at suitable points, for all the persons employed.
- viii. The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z11013/5712014-IA.I1 (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.

## 8. Others:

- i. The project shall comply with the recommendations of the additional studies like Traffic Study, Biodiversity Management Plan, Carbon Footprint Assessment, as applicable.
- ii. In pursuant to the Ministry's OM dated 18/07/2022. PP shall also create awareness among the people working in the ML area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on 12/08/2021.
- iii. The project shall align its activities towards some SDGs and submit the details in its six-monthly compliance report on routine basis.
- iv. Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.
- v. Post closure monitoring of air quality, water, land & soil etc. shall be carried out by NABL accredited laboratories and analysed with EMP measures at regular interval. A suitable recommendation in this regard, shall be furnished to RO, MoEF&CC for compliance. The data used for analysis shall be obtained from routine environmental monitoring, continuous air / water QMS, etc.

- vi. Third Party Environmental Audit shall be undertaken once in every three years through reputed institutes or scientific agencies.

## **9. Corporate Environment Policy:**

- i. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for 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. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions to shareholders/stake-holders
- ii. A separate Environmental Cell both at the project and company head quarter level, with adequate qualified personnel shall be set up under the control of senior executive, who will directly report to the Head of the organization.
- iii. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

## **10. Miscellaneous:**

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days of receipt of EC and in addition, this shall also be displayed in the project proponent's website permanently.
- ii. 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 has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at Parivesh portal.
- v. The monitoring data w.r.t environmental parameters shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
- vi. The project proponent shall submit the Environmental Statement for each financial year in Form-V to the concerned State Pollution Control Board, as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

- vii. The project authorities shall inform to the Regional Office of the MoEFCC regarding commencement of mining operations.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. No further expansion or modifications in the mine shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xi. 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.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company, in a time bound manner, shall implement these conditions.
- xiv. The Regional Office of this Ministry 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
- xv. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

#### **Agenda Item No. 36.2:**

**36.2:** Expansion of Coal Washery Project (increase in area from 10.11 Ha to 14.93 Ha with increase in washing capacity from 2.5 MTPA to 5 MTPA) by M/s **Clean Coal Enterprises Private Limited**, located at village: Gataura; **District: Bilaspur; State: Chhattisgarh – Environment Clearance – reg.**

**[Online Proposal no. IA/CG/CMIN/541337/2025; Consultant: Grass Roots Research & Creation India (P) Ltd., NABET/EIA/24-27/RA 0354, valid up to 16.08.2027]**

**36.2.1:** M/s Clean Coal Enterprises Private Limited (CCEPL) has made an online application vide proposal no. No- IA/CG/CMIN/541337/2025 dated 25.06.2025 along with copy of EIA/EMP report, Form and Certified compliance report seeking Environment Clearance (EC) under the provisions of EIA Notification 2006 for the project mentioned above. The proposed project activity is listed at schedule no. 2(a) Coal Washeries, Under Category “A” of the schedule of the EIA Notification, 2006 and appraised at Central Level. The project do not attract the provision of general condition of the EIA Notification, 2006.

Expansion of Coal Washery Project (increase in area from 10.11 Ha to 14.93 Ha with increase in washing capacity from 2.5 MTPA to 5 MTPA) by M/s Clean Coal Enterprises Pvt. Ltd., located at village: Gataura; District: Bilaspur; State: Chhattisgarh.

ToR was granted vide letter no. J-11015/410/2013-IA-II(M) dated 10.06.2023.

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

**36.2.2: 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-11015/410/2013-IA.II.(M)	Fresh EC	2.5	10.11	18.06.2018	Implemented

CTO was also obtained from Chhattisgarh Environment Conservation Board (CECB), Raipur vide letter No. 6809/TS/CECB/2025 dated 16.09.2025 valid till 31/07/2026.

**36.2.3: Environmental Site Settings:**

The project area is covered under Survey of India Topo sheet No F44K4 and is bounded by the geographical coordinates ranging from 22° 3'41.71"N and 22° 3'42.29"N and longitudes 82°13'59.56"E and 82°14'2.60"E. Project does not fall in the Critically Polluted Area (CPA)/Severely Polluted Area (SPA), as per CEPI Assessment 2018.

**Forest Area:** the instant project does not include 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 is no endangered schedule I species in study area of the project. The same has been confirmed by the PCCF – Wildlife, Chhattisgarh vide letter no. 252 dated 11.11.2025.

**Project Area/ Location:** PP submitted that the proposed coal washery will be located in an area of 14.93 Ha (10.11 Ha is the existing washery area and 4.82 Ha is being added for the expansion project). The additional land of 4.82 Ha is privately owned land and the same has been purchased from individual land owners. The lease for the additional 4.82 ha was executed on 19.12.2022 and the PP has submitted relevant lease deed documents. At present, the entire land of 14.93 Ha is under the possession of the project proponent.

**Breakup of the land area and status of land acquisition**

S. No.	Particular	Existing Area (Ha)	Expansion Area (Ha)	Total	%
1.	Washery Area	1.82	0.29	2.11	14.13
2.	Raw Coal Stockyard	0.80	0.82	1.62	10.85
3.	Clean Coal Storage Area	0.64	0.82	1.46	9.77
4.	Reject Storage Area	0.60	0.81	1.41	9.44
5.	Other Facilities-Office Building, internal roads, weight bridge, water reservoir, canteen, Labourers, Parking area	2.92	0.50	3.42	22.90
6.	Green Belt	3.33	1.59	4.92	32.95

S. No.	Particular	Existing Area (Ha)	Expansion Area (Ha)	Total	%
	<b>Sub-Total</b>	<b>10.11</b>	<b>4.83</b>	<b>14.93</b>	<b>100</b>
	<b>Total area</b>			<b>14.93 Ha</b>	

### Other Sensitive receptors:

Project site proximity to sensitive area		Distance in km (within 5 km from the project area)		
i. Habitation	Particulars	Distance	Direction	
	Gatora Village	1.66 km	ENE	
	Karra village	1.8 km	SSW	
	Butapara	2 km	W	
ii. School	Particulars	Distance	Direction	
	Government Primary School Karra	1.5 km	SW	
	Govt Middle School Domuhani	1.8 km	SW	
	Holycross Senior secondary school	3.17 km	WSW	
iii. River/ Waterbody	Particulars	Distance	Direction	
	Arpa River (HFL data: 260.15 m)	1.43 km	W	
	Kurung Nadi	1.5 km	W	
iv. Forest	NA			
v. Archaeological Survey of India (ASI) protected site	No			
vi. Any other (industries, hospitals etc)	S. No.	Name of Industry	Distance (km)	Direction
	1.	Hind energy Gatora	0.2	E
	2.	Agro Papers Industry	3	WSW
	3.	Supreme industry	3.2	SW
	4.	Bilaspur Mining Industries	5	S
	S. No.	Name of Hospitals	Distance (km)	Direction
	1.	Primary care hospital Dheka	3	SW
	2.	Government Primary Health Centre Devrikhurd	3.62	W

No diversions of the sensitive receptors is proposed for the said project.

### 36.2.4: Salient features of the project:

- i. M/s Clean Coal Enterprises Pvt. Ltd. (CCEPL) has intended to expand an existing coal washery project with increase in area from 10.11 Ha to 14.93 Ha with increase in washing capacity from 2.5 MTPA to 5 MTPA to supply the clean coal to thermal power plants.
- ii. Heavy media cyclone technology is being used for coal washing.
- iii. The raw coal requirement (ROM Coal 5 MTPA) for the proposed washery will be met from Gevra Mines, located within approx. 75 km from washery, Kusmunda Mines, located within 70 km from Washery and Dipika Mines located 75 km away from Washery will be transported by road and rail. The ROM coal from MCL mines will be transported by Rail Rake.
- iv. Washed Coal will be transported from Washery to HECB Gatora Railway siding and then to End User by Indian Railways network for long distance and by road to nearby users. Railway siding is at a distance of 200 m from site with capacity of 10 rakes per day.

- v. Reject Coal is being transported from Washery to HECB GATORA Railway siding and then to End User by Indian Railway network for long distance delivery & by road to nearby power plants. All the trucks used for transportation of raw coal, washed coal, rejects is being covered.
- vi. Coal stock yard (Raw coal, washed coal & Washery rejects) will be kept in Storage with pucca platform above ground level provided with wind shields / wind breaking walls. The same practice will be followed for expansion.
- vii. Details of land – use:

S. No.	Particular	Existing Area (Ha)	Expansion Area (Ha)	Total	%
1.	Washery Area	1.82	0.29	2.11	14.13
2.	Raw Coal Stockyard	0.80	0.82	1.62	10.85
3.	Clean Coal Storage Area	0.64	0.82	1.46	9.77
4.	Reject Storage Area	0.60	0.81	1.41	9.44
5.	Other Facilities-Office Building, internal roads, weight bridge, water reservoir, canteen, Labourers, Parking area	2.92	0.50	3.42	22.90
6.	Green Belt	3.33	1.59	4.92	32.95
<b>Sub-Total</b>		<b>10.11</b>	<b>4.83</b>	<b>14.93</b>	<b>100</b>
<b>Total area</b>		<b>14.93 Ha</b>			

- viii. The additional manpower requirement will be sourced from the local areas to the extent possible. The existing manpower is 100, and after expansion, a total of 130 employees will be needed for the expanded plant. Permanent manpower required is 100 and temporary will be 30.
- ix. The project site adjacent to Gatora Main Road towards North direction. Also, Site is well connected to National Highways NH-130A which is at 4 km towards NW direction and NH-49 is at 3 km towards SW from the project site. The nearest village is Gatora, which is located about 2 km ENE direction. The nearest railway station is Gatora Railway Station which is located at about 1 km in WSW direction. The nearest airport is Bilasa Devi Kevat Airport which is at a distance of 13 km in WSW direction from the project site.

### 36.2.5: Baseline Data:

Period	December 2022 – February 2023
AAQ parameters at 8 Locations (min and max)	PM <sub>10</sub> - 50.3µg/m <sup>3</sup> to 87.6µg/m <sup>3</sup> PM <sub>2.5</sub> - 26.5µg/m <sup>3</sup> and 49.5µg/m <sup>3</sup> SO <sub>2</sub> - 6.2µg/m <sup>3</sup> to 11.4µg/m <sup>3</sup> NO <sub>2</sub> - 8.6 µg/m <sup>3</sup> to 29.5µg/m <sup>3</sup> CO - 633 µg/m <sup>3</sup> to 1380µg/m <sup>3</sup>
Incremental GLC Level	PM <sub>10</sub> – 0.55µg/m <sup>3</sup> PM <sub>2.5</sub> – 0.37 µg/m <sup>3</sup> SO <sub>2</sub> - 0.1 µg/m <sup>3</sup> NO <sub>2</sub> - 4.69 µg/m <sup>3</sup> CO - 4.1 µg/m <sup>3</sup>
Ground water quality at 8 Locations	pH: 7.06 to 7.41, Total Hardness: 248 to 356 mg/l, Chlorides: 128 to 138 mg/l, Fluoride: 0.48 to 0.84 mg/l. Heavy metals : Iron 0.21- 0.36 mg/l.
Surface water quality at 4	pH: 7.23 to 7.78.; DO: 5.3 to 6.3 mg/l and BOD: 2.4.mg/l to 4.4 mg/l, COD from

Locations	8.8 to 18.3 mg/l.																												
Noise levels Leq (Day and Night)	There is no residential area. There is commercial and silence area 45.8 to 63.6 dB(A) for the day time and 34.6 to 52.3 dB (A) for the Night time  Industrial area: 68.7 to 73.8 dB(A) for the day time and 55.1 to 65.7 dB (A) for the Night time.																												
Traffic assessment study findings	Traffic study has been conducted at NH-49 which is approximately 3 km towards SW from the mine site. Existing PCU is 1183 PCU/hr on NH-49 and the existing level of service "B".  <table border="1"> <thead> <tr> <th>S. No</th> <th>Category of Road</th> <th>Maximum PCU</th> <th>Carrying Capacity of Road</th> <th>V/C Ratio</th> <th>Dispatch Ratio (%)</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NH-49</td> <td>1182.6 say 1183</td> <td>5400</td> <td>0.21</td> <td>100</td> <td>B</td> </tr> </tbody> </table> PCU load after proposed project will be 1183(Existing) + 72 (Additional) PCU/hr and level of service (LOS) will be "B":  <table border="1"> <thead> <tr> <th>S. No</th> <th>Road</th> <th>Increased PCUs</th> <th>Modified V</th> <th>C</th> <th>Modified V/C Ratio</th> <th>Modified V/C Grade</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>NH-49</td> <td>72</td> <td>1183+72=1125</td> <td>5400</td> <td>0.22</td> <td>B</td> </tr> </tbody> </table>	S. No	Category of Road	Maximum PCU	Carrying Capacity of Road	V/C Ratio	Dispatch Ratio (%)	LOS	1	NH-49	1182.6 say 1183	5400	0.21	100	B	S. No	Road	Increased PCUs	Modified V	C	Modified V/C Ratio	Modified V/C Grade	1.	NH-49	72	1183+72=1125	5400	0.22	B
S. No	Category of Road	Maximum PCU	Carrying Capacity of Road	V/C Ratio	Dispatch Ratio (%)	LOS																							
1	NH-49	1182.6 say 1183	5400	0.21	100	B																							
S. No	Road	Increased PCUs	Modified V	C	Modified V/C Ratio	Modified V/C Grade																							
1.	NH-49	72	1183+72=1125	5400	0.22	B																							
Flora and fauna	Flora: 24 tree species, 9 Shrubs and 6 grasses found in the forests The dominant trees in the study area are Sal ( <i>Shorea robusta</i> ), Azadirachta indica (Neem), <i>Mohua (Madhuca indica)</i> , Aam ( <i>Mangifera indica</i> ). Fauna: 57 bird species, 11 reptiles and amphibians, 16 mammals were found in the forests. Jackal ( <i>Canis aureus</i> ), Common Mongoose ( <i>Herpestes edwardsii</i> ), Jungle cat, Monkey ( <i>Macaca mulatta</i> ), Sambar, Chital, Wild Boar, Nilgai, Squirrel, Hare, Rat. Schedule I fauna: There is no schedule I species in study area.																												
Water Requirement	Source of Water: Surface water and Ground water Water Requirement: 1070 KLD (surface water 1000 KLD + ground water 70 KLD) CGWA NOC vide CGWA/NOC/IND/ ORIG/2023/17557 has been obtained for 70 KLD, valid from 13th Jan 2023 to 12.01.2026 and permission for Surface water from Department of Water Resources, Government of Chhattisgarh vide letter No 1314/F4-128/S-2/310JP/09 dated 26th February, 2018																												

**36.2.6: Water Requirement:** The water required for the said expansion project is 1070 KLD and the source of water will be both surface water (1000 KLD) and ground water (70 KLD). NoC for groundwater has been obtained from CGWA vide CGWA/NOC/IND/ ORIG/2023/17557 for 70 KLD valid from 13.01.2023 to 12.01.2026 and NoC for surface water has been obtained from Department of Water Resources, Government of Chhattisgarh vide letter No 1314/F4-128/S-2/310JP/09 dated 26.02.2018. No water body is proposed to be diverted for the instant project.

**36.2.7: Details of diversion of High-Tension/ Transmission Line:** Power requirement for the expansion project is 2.75 MW and the same will be sourced from solar power and the state grid. 2 DG set of 750 kVA and 250 kVA are proposed for power backup.

**36.2.8: Solid and hazardous Waste generation:**

S. No.	Type of Waste	Source	Quantity	Mode of Treatment	Disposal	Remarks
1	Organic Waste	Canteen	5.0 TPA	Collected in separate bins	Used in composting/ Vermiculture	-
1	Used Oil/Waste Oil	DG Set & machines	0.1 kl/year	Collected & stored in separate leak proof bins	Will be sold to authorized recycling vendors	-

**36.6.9: Details of Public Hearing:**

Details of advertisement of given	Public hearing notice was published on 03.02.2024 in newspapers namely Dainik Bhaskar and The Times of India
Date of public Hearing	06.03.2024
Venue	Government Pre-Secondary School premises, Village-Karra, Tehsil-Masturi, District-Bilaspur (Chhattisgarh)
Presiding Officer	Shri R.A. Kuruvanshi, Additional Collector
Number of people who attended the public hearing	200 person (approx.)
Number of written representations received from within and outside the district	68
Major issues raised	<ol style="list-style-type: none"> <li>Employment for the locals and upgradation of education facilities in Schools.</li> <li>Air Pollution Control Measures</li> <li>Water requirement for irrigation &amp; Drinking</li> <li>Road Safety Measures</li> <li>Concern about health of local people</li> <li>Maintenance of village road</li> </ol>

Action plan as per MoEF&CC O.M. dated 30/09/2020: Rs. 108 Lakhs has been earmarked as CER funds, which will be spent to address the concerns raised during the public hearing (Employment, Pollution Control, Health and road & Safety Measures of the nearby villages).

S. No.	Issue Raised during PH	Physical activity and action plan	Budget	2024-2026		2028-2030
				2026-2028		
1.	Employment for the locals and upgradation of education facilities in Schools.	Willing and employable youths will be identified in consultation with gram panchayat of Gatora, Karra and Butapara. They will be provided training for trades namely	19.5 Lakhs  Stipend-9.5 Lakh (Rs. 15000/- stipend per year to 25 persons.	6.5 Lakhs	6.5 Lakhs	6.5 Lakhs

S. No.	Issue Raised during PH	Physical activity and action plan	Budget	2024-2026	2026-2028	2028-2030
		<p>electrician, fitters, welders, painters, and civil construction work, etc. After successful completion of training, the youths will be offered employment in company in suitable grade.</p> <p>Development of smart class, distribution of benches, fans, upgradation of sanitary facility, distribution of it, gadgets, printers, computers in schools present in nearby villages our project site. Details are given below:-</p> <ol style="list-style-type: none"> <li>1. Govt Middle School Domuhani at 1.8 km in SSW Direction.</li> <li>2. Government Primary School Karra at 1.5 km in SW Direction.</li> <li>3. Upper Primary High School Gatora at 3.4 km in E direction.</li> </ol>	<p>ITI Fee 10.0 Lakhs (Rs. 25000/- yearly fee for 24 persons.)</p> <p><b>12.0 Lakhs</b></p>	<b>4.0 Lakhs</b>	<b>4.0 Lakhs</b>	<b>4.0 Lakhs</b>
2.	Air Pollution Control Measures	<p>Additional Tree plantation (1800 trees) will be done in nearby villages Gatora, Limtara, Karra and Butapara.</p> <p>Water sprinkling on road for dust</p>	<p><b>18.0 Lakhs</b> (500 per Tree for 450 trees)</p>	<b>6.0 Lakhs</b>	<b>6.0 Lakhs</b> <b>2.0 Lakhs</b>	<b>6.0 Lakhs</b>

S. No.	Issue Raised during PH	Physical activity and action plan	Budget	2024-2026	2026-2028	2028-2030
		control in nearby villages in consultation with the authority.	<b>6.0 Lakhs</b> (Installation of water sprinklers)	<b>2.0 Lakhs</b>		<b>2.0 Lakhs</b>
3.	Water requirement	Construction of RWH structure in Village Gatora.	<b>6.0 Lakhs</b>	<b>6.0 Lakhs</b>		
4.	Road Safety Measures	Traffic Awareness programme will be conducted in villages Gatora, Karra and Butapara.  Helmets and first aid kit will be distributed to villagers.	<b>12.0 Lakhs</b>  <b>6.0 Lakhs</b> (Distribution of helmets and First aid kits to 600 people)	<b>4.0 lakhs</b>  <b>2.0 Lakhs</b> (Distribution of helmets and First aid kits to 200 people)	<b>4.0 Lakhs</b>  <b>2.0 Lakhs</b> (Distribution of helmets and First aid kits to 200 people)	<b>4.0 Lakhs</b>  <b>2.0 Lakhs</b> (Distribution of helmets and First aid kits to 200 people)
5.	Concern about health of local people	Health checkup and distribution of medicines in Villages Gatora, Karra and Butapara.	<b>16.5 Lakhs</b>  Conducting Health checkup:- <b>Rs. 6.5 Lakhs</b>  Providing Medicines and other health facilities :- <b>Rs. 10.0 Lakhs</b>	<b>5.5 Lakhs</b>  Health checkup and distribution of medicines in Villages Gatora, and Karra	<b>5.5 Lakhs</b>  Health checkup and distribution of medicines in Village Gatora, and Karra.	<b>5.5 Lakhs</b>  Health checkup and distribution of medicines in Village Gatora, and Karra.
6.	Maintenance of village road	Maintenance of village Road	<b>12.0 Lakhs</b>	<b>4.0 Lakhs</b>	<b>4.0 Lakhs</b>	<b>4.0 Lakhs</b>
<b>Total</b>			<b>108 Lakhs</b>	<b>40 Lakhs</b>	<b>34 Lakhs</b>	<b>34 Lakhs</b>

**36.6.10: EMP Cost:** The capital cost for environmental protection measures is proposed as Rs. 1110.5 lakhs for the expansion project. The annual recurring cost towards the environmental protection measures is proposed as Rs 243 lakhs for the expansion project. The employment generation from the expansion is 130 (Existing 100 and Proposed 30). The details of cost for environmental protection measures is as follows:

S. No	Activity	Capital Cost (Lakh)		Recurring expenses proposed/ annum (Lakh)	
		Existing	After proposed Expansion	Existing	After proposed Expansion
1	<b>Air Pollution Control Measures</b>	<b>370</b>	<b>510</b>	<b>82.5</b>	<b>106.5</b>
	➤ DES and Bag House in crusher house	230	270	47.5	60.5
	➤ Fixed Water sprinklers	40	65	10	12
	➤ Mobile water sprinklers	20	40	5	8.5
	➤ Enclosures to belt conveyors	30	50	7.5	9.5
	➤ Asphalted internal roads	25	50	6.25	7.5
	➤ Rain gun	25	35	6.25	8.5
2	<b>Water pollution control measures</b>	<b>245</b>	<b>267.5</b>	<b>61.25</b>	<b>68.5</b>
	➤ Closed water Circuit, Thickener	210	220	52.5	56
	➤ Storm water drains	10	15	2.5	3.50
	➤ Sewage Treatment Plant	10	12.5	2.5	3.50
	➤ Piezometer to monitor ground water level	15	20	3.75	5.5
3	<b>Green belt development</b>	<b>20.70</b>	<b>50</b>	<b>5.175</b>	<b>12.5</b>
4	<b>Occupational Health &amp; Safety</b>	<b>57.3</b>	<b>70</b>	<b>14.325</b>	<b>15.5</b>
	➤ Provision of PPE	27.3	30	6.825	7.5
	➤ Medical examination	30	40	7.5	8
5	<b>Environment Management Cell</b>	<b>25</b>	<b>30</b>	<b>6.25</b>	<b>7.5</b>
6	<b>Risk Mitigation Measures</b>	<b>25</b>	<b>30</b>	<b>6.25</b>	<b>7.5</b>
7	<b>Environmental Monitoring</b>	--	--	<b>10</b>	<b>10</b>
8	<b>CER Budget</b>	<b>45</b>	<b>153</b>	<b>11.25</b>	<b>15</b>
	<b>Total</b>	<b>788</b>	<b>1,110.5</b>	<b>197</b>	<b>243</b>

**36.2.10: Plantation:** Already, more than 21.63 % of existing plant area has been developed as greenbelt i.e., 3.23 Ha and additional 1.71 Ha area will be developed for expansion project. Hence, total green area after expansion will be 4.94 Ha i.e., more than 33% of total plant area.

**36.2.9: Rehabilitation & Resettlement:** The project does not involve rehabilitation and resettlement.

**36.2.11: Project Cost:** Existing capital cost of project was Rs. 41.0 Crores and that for the expansion project is Rs. 11.55 Crores. The total project cost is Rs. 52.55 Crores.

**36.2.12: Certified Compliance Report:** Certified Compliance Report from RO Office, Raipur was received vide File No. EC-837/RON/2018-NGP/75, dated 26.06.2024. Subsequently, a Show Cause Notice was issued on 27.08.2024 for partially complied and non-complied conditions in EC letter. A detailed reply addressing all points was submitted to the RO Office, Raipur on 16.10.2024 by the PP. Thereafter, MoEF&CC directed the RO to verify the compliance of all partially complied and non-complied conditions. Based on the reply by PP and site inspection was held on 30.03.2025, Regional office issued another

Report vide letter No. EC-837/RON/2018-NGP/12 dated 21.04.2025. In accordance with the inspection report requirements, a reply confirming actions taken w.r.t. the partially complied and non-complied points was further submitted to the RO, Raipur on 05.05.2025. Subsequently, a personal hearing was convened in the Ministry. As per the proceedings of the personal hearing, PP was advised to take the amendment in the conditions which are not applicable on the same and comply with the timeline for the conditions which are yet to be complied. Details of the same are as follows:

S. No.	Condition No.	Details of the condition as per the EC	Observations of SO in SCN Review Report based on the PP's submission	Conclusion during the Personal Hearing	Way forward/ Timeline as committed by PP during the EAC
1	Specific Condition No. vii	Thick green belt of adequate width to be provided around the washery to mitigate/ check the dust pollution. A 3-tier avenue plantation should also be developed along vacant areas, storage yards, loading/ transfer points, and also along internal roads/ main approach roads.	During the visit, it has been observed that project authority has developed greenbelt on the periphery of the Unit and along the internal roads. However, 3 tier avenue plantation have not been developed on vacant areas, storage yards, loading/ transfer points and internal roads as stipulated in the EC condition.	During the meeting, PP appraised the chair that they have already developed greenbelt along the entire periphery of the plant premises and along internal roads, as per the EC condition. Further, they have informed that Third Party audit of the greenbelt carried out by SEID R, Raipur and a copy of the same was shown during the meeting. They further made the following submissions during the meeting: <ul style="list-style-type: none"> <li>As per the requirement of 33% greenbelt over the total plant area of 10.11 Ha, a minimum of 3.33 Ha is to be covered. Against the required 8,874 plants, a total of 15,775 plants have been planted within the plant premises, out of which 10,885 plants have survived.</li> <li>In line with this commitment, gap plantation/ replenishment in certain areas such as vacant land, storage yards, loading/ transfer points, and internal roads, 2000 plants have already been planted. The geotagged photographs of the same were presented during the meeting.</li> </ul> With regard to the observation on project boundary demarcation, PP informed that they have already Demarcated the Plant area. However for	31.03.2026
	General Condition no. b. ii.	Three tier greenbelt comprising of a mix of native species, of minimum 30 m width shall be developed all along the washery area to check fugitive dust emissions and to render aesthetic to neighbouring stakeholders. A 3-tier greenbelt comprising of a mix of native species or tree species with thick leaves shall be developed along vacant areas, storage yards, loading/ transfer points and also	Further, Project boundaries are not clearly demarcated rather part of the Project boundaries and rail way siding appears to be shared with other adjoining Coal Washeries.		

S. No.	Condition No.	Details of the condition as per the EC	Observations of SO in SCN Review Report based on the PP's submission	Conclusion during the Personal Hearing	Way forward/ Timeline as committed by PP during the EAC
		along internal roads/ main approach roads.		<p>separating the railway siding from the Plant area PP initiated the process and procured the steel, and raise PO for procurement of profile sheets. Some of the portion will be separated by constructing boundary wall and some part through Profile Sheets, However, due to continuous rains in the region, this job will be completed by <b>Mid Oct or 1st week of Nov.</b> The Plant lay out presented by the PP during the meeting reviewed by the Chairman and it was observed PP has initiated the work of boundary demarcation. The matter was discussed with the R.O. and experts in CMD during the meeting, who showed satisfaction with the action taken by the PP. Chairman agreed with the timeline provided by the PP and directed the PP to submit the updated compliance status in this regard <b>by Dec, 2025</b> and the same shall be submitted along with six-monthly compliance reports to SO Raipur.</p>	
2	General Condition no. b. i.	An Integrated Surface Water Management Plan for the washery area up to its buffer zone considering the presence of any river/rivulet/ pond / lake etc. with impact of coal washing activities on it, shall be prepared, submitted to MOEFCC and implemented.	Neither prepared an Integrated Surface Water Management Plan for the washery area, up to its buffer zone considering the presence of any river/ rivulet/ pond/ lake etc. with impact of coal washing activities on it, nor submitted the same and its implementation status to MoEF&CC as stipulated in the	<p>During the meeting, PP app raised the chair that the in initial EC dated 18.06.2018 was granted in the name of M/s Hind Multiservices Pvt. Ltd. thereafter the EC was amended vide letter dated 0 3.04.2023. Subsequently, the EC dated 18.06.2018 was transferred in the name of M/s Clean Coal Enterprises Pvt. Ltd. vide letter date d 30.05.2023. Thus, due to change in management and handing over transition, we could not ascertain whether the study has been carried out earlier management. As observed by the SO during the recent inspection now PP had</p>	<b>31.12.2025</b>

S. No.	Condition No.	Details of the condition as per the EC	Observations of SO in SCN Review Report based on the PP's submission	Conclusion during the Personal Hearing	Way forward/ Timeline as committed by PP during the EAC
			general condition b. (i) and thus the condition has not been complied with.	appointed expert agency for preparation of the Integrated Surface Water Management Plan and the work order has also been issued to M/s. BHARAT EN VIROTECH, Raipur. PP assured that the final ISWMP along with its implementation will be completed by 31st December 2025 and the same will be communicated to MOEF&CC along with Photographs. The matter was discussed with the R.O. and experts in CMD during the meeting, who showed satisfaction with the action taken by the PP. The Chair agreed with the submission made by the PP and directed to adhere to the timelines and submit the ISWMP report and its implementation status by 31st December, 2025 and the same shall be submitted along with six-monthly compliance reports to SO Raipur.	
3	General Condition no. b. v.	Rainwater harvesting in the washery premises shall be implemented for conservation and augmentation of ground water resources in consultation with Central Ground Water Board.	Project Authority claims that the condition is not applicable for the Coal Washery in accordance with the Notification issued by the Ministry of Jal Shakti. However, reportedly PA implemented rain water harvesting measures outside the Unit i.e. in the Gatora Village. Ministry may examine the reply of the Project Authority and appropriate view may be taken for amending the said EC condition based on the f	During the meeting, the PP submitted that as per Ministry of Jal Shakti (MoJS) (Department of Water Resources, River Development and Ganga Rejuvenation) Central Ground Water Authority vide S.O.3298 (E) dt. 24.09.2020 & dt. 29.03.2023 (amendment) rainwater harvesting structure is not applicable for the coal washeries. However, PP informed that they have developed Rain Water harvesting ponds outside the plant i.e. in the Gatora Village with a storage capacity of 20,211 Cum /annum. Further, they assured that a proposal for amendment to this condition will be applied. The Chair asked the PP to apply for amendment of EC condition and the decision	PP shall apply for amendment

S. No.	Condition No.	Details of the condition as per the EC	Observations of SO in SCN Review Report based on the PP's submission	Conclusion during the Personal Hearing	Way forward/ Timeline as committed by PP during the EAC
			actual statutory requirements.	regarding the same to be taken by the sector on the basis of recommendation of EAC.	
4	General Condition no. (c) i)	Transportation of coal by road shall be carried out by covered trucks/conveyors. The transportation of clean coal and rejects shall be by rail with wagon loading through silo. Effective measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulates such as roads, belt conveyors, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled at source, its shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/ State Pollution Control Board	It appears that Project Authority has taken corrective measures and installed water sprinklers and also committed to install additional 15 numbers of water sprinklers. Project Authority in their reply submitted monitored data of AAQ for the period of sampling from 11/6/2024 to 12/6/2024. Monitored data show that the values are within the limit. However, Project Authority shall ensure the frequency of AAQ monitoring conformed to the protocol notified.	During the meeting, PP informed that 15 nos. of Water sprinklers for dust suppression have been installed. CAAQMS is also connected to the SPCB server on 10-12-2022 & will be connected to CPCB by 1st week of October 2025. Another CAAQMS will be installed by end of November 2025. Accordingly, the Chair agreed with the submissions of the PP and directed to install another CAAQMS by the end of November 2025 and both the CAAQMS shall be connected to SPCB and CPCB server. The compliance of the same shall be submitted to the SO Raipur in the six monthly compliance report.	January 2026
	General Condition no. (c) vii)	Hoppers of the coal crushing unit and other washery units shall be fitted with high efficiency bag filters/mist spray water sprinkling system shall be installed and operated effectively at all			

S. No.	Condition No.	Details of the condition as per the EC	Observations of SO in SCN Review Report based on the PP's submission	Conclusion during the Personal Hearing	Way forward/ Timeline as committed by PP during the EAC
		times of operation to check fugitive emissions from crushing operations, transfer points of closed belt conveyor systems and from transportation roads			
5	General Condition no. c. vi.	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SOx and NOx. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr carried out at least once in six months.	Project Authority has installed one CAAQ monitoring station near the railway siding/ near the adjoining other Coal Washery, which has not been connected to the server of the CPCB. Further, PA shall install adequate CAAQM Stations as stipulated. Though the AAQ is being monitored through third party laboratory, from the monitored AAQ data it has been observed that Hg has not been monitored	During the meeting, PP informed that Ambient Air Quality Monitoring (AAQM) is being carried out regularly by a NABL-accredited laboratory, covering key parameters such as PM <sub>2.5</sub> , PM <sub>10</sub> , SO <sub>2</sub> , and NO <sub>x</sub> . Relevant reports were presented during the meeting. PP further informed that One Continuous Ambient Air Quality Monitoring Station (CAAQMS) has already been installed near the railway siding, which is in proximity to another adjoining coal washery. CAAQMS was connected to the SPCB server on 10-12-2022 & will be connected to CPCB by 1st week of October 2025. Another CAAQMS will be installed by end of November 2025. Accordingly, the Chair directed the PP to adhere the timelines provided for installation of new CAAQMS and connectivity to CPCB server. Compliance of the same shall be submitted to SO Raipur along with six-monthly compliance report.	January 2026
	General Condition no. j. I.	Continuous ambient Air quality monitoring Stations as prescribed In the statue be established in the core zone as well			

S. No.	Condition No.	Details of the condition as per the EC	Observations of SO in SCN Review Report based on the PP's submission	Conclusion during the Personal Hearing	Way forward/ Timeline as committed by PP during the EAC
		as in the buffer zone for monitoring of pollutants, namely PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> . Location of the stations shall be decided based on the meteorological data, topographical features and environment ally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc to be carried out at least once in six months.			
	General Condition no. j. ii.	The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vid e GSR 742 (E) dated 25.9.2000 and as a mended from time to time by			

S. No.	Condition No.	Details of the condition as per the EC	Observations of SO in SCN Review Report based on the PP's submission	Conclusion during the Personal Hearing	Way forward/ Timeline as committed by PP during the EAC
		the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/ Regional Office and to the CPCB/ SPCB.			
6	General Condition no. j. v.	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post - monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/ RO	In the EC condition, it has been stipulated that regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells. However, the present Project is not a Mine and thus the condition needs to be appropriately amended by the regulatory authority concerned.	PP informed that they have already installed a Piezometer within the premise. PP appraised the Chair that as the extant Project is a coal washery project and not a Mine project, which appears to be inadvertent editorial error. The condition needs to be amended. The chair agreed to the submission and asked the PP to apply for amendment of the EC condition to the concerned sector.	PP shall apply for amendment

**33.2.13: Legal Issues/ Violation:** PP submitted 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.

**33.2.14: Comments of State Pollution Control Board, Chhattisgarh as per Ministry's OM dated 14.01.2025 and SOP dated 08.10.2025:**

**COMMENTS:**

**Environment Safeguards**

**1. Strict adherence to EC conditions:**

- All terms and conditions of the Environmental Clearance shall be followed without deviation.

**2. Effluent Management :**

- Untreated sewage or waste water shall not be discharged outside the premise under any circumstances.
- STP shall be provided for treatment of domestic waste water.
- ETP shall be provided for treatment of industrial waste water.
- Process effluent will be treated and will be recycled and reused in the process. Zero liquid discharge shall be maintained.
- Oil & grease trap will be provided for treatment of waste water from workshop and garages. Treated water will be recycled.
- Practicing good housekeeping to maintain hygienic conditions at work site.
- Rainwater to be collected and used for recharging ground water table and to be used in lean season.

**3. Air Pollution Control:**

- Height of stack shall be as per CPCB norms. Before applying for Consent to Operate, CEMS should be installed in the chimney for continuous monitoring, CAAQMS for measuring ambient air quality, CEQMS for measuring water quality.
- Particulate matter emission from the process stack should be kept below 30 mg/normal cubic meter and the stack height should be kept as per the guidelines of the Ministry of Environment, Forest and Climate Change/CPCB and the height of all other stacks should be kept at 30 meters.
- Proper management of dust suppression, contaminated water, construction waste etc. should be done during the installation work.
- Regular monitoring of ambient air quality inside plant area and in nearby villages
- Water sprinklers arrangement shall be provided in internal road.
- To comply with standard operating procedure (for properly covering vehicles engaged in transportation work) issued by CECB vide order dated 26.06.2024
- Wheel washing system shall be installed at entry and exit gates.

**4. Noise Control Measures:**

- Provision of enclosures, silencers, etc shall be provided in boilers, Turbo-Generators and DG sets for control noise level.

**5. Solid Waste Management:**

- Appropriate solid waste management systems must be established before applying for consent to operate.

**6. Rain Water Harvesting:**

- The recharge pits are to be constructed for recharging the rain water

#### 7. Greenbelt and Soil Conservation:

- Green belt shall be developed in 33% of total land available. Additional width of green belt towards Village Alda & High School shall be developed.

#### 8. Labour Camp Sanitation and Health:

- Drinking water and sanitation facilities shall be provided to labourers.
- Medical aid and first aid kits shall be made available on-site.

#### 9. As per RO Recommendations and inclusion of the following Conditions :-

- investment slab as given Environmental Clearance increases (if any) by the time of application for obtaining Consent to Operate from CECB, Project proponent pays difference fees as per rules.
- Industry shall obtain CGWA NOC Ground water abstraction or Permission from concerned department for withdrawal of surface water.
- NOC from Gram panchayat shall be obtained before Consent to Operate.
- Industry implements adequate/ suggested air pollution control measure/ water pollution control measures before applying for Consent to Operate.
- Industry shall deploy/ implement solid waste disposal scheme as suggested in Environmental Clearance.
- Industry shall install CEMS in all processing unit stacks for continuous measurement of air emission and CAAQMS for measurement of pollutants in Ambient Air before Consent to Operate.
- Particulate matter emission shall be restricted below 30 mg/ Nm<sup>3</sup> from all processing stacks. With stacks, Height of processing units shall be as per CPCB guidelines. Height of other shall not be less than 30 meters.
- Industry shall implement all effective measures to control dust emission, waste water and construction wastes disposal.
- Industry shall produce/ submit the compliance statement to the conditions stipulated in Environmental Clearance letter.

**Application for Consent to Operate (CTO) shall be made after compliance of above Safeguards.**

**33.2.15: Undertaking and Affidavit:** PP vide an affidavit submitted that, the project of Expansion of Coal Washery Project Based on Heavy Media Cyclone from 2.5 MTPA to 5.0 MTPA" Located at Village-Gatora, Tehsil-Masturi, District-Bilaspur, Chhattisgarh by M/s Clean Coal Enterprises Pvt. Ltd. (CCEPL)". Vide affidavit, it submitted the following:

- That the construction done without any deviation as per previous EC obtained for the existing plant from MoEF&CC, New Delhi vide letter No. J. 11015/410/2013-1A.II(M) dated 18.06.2018.
- That, there is no litigation on the project either at NGT or any other court of Law.
- That the land has been purchased by M/s Clean Coal Enterprises Pvt. Ltd. (CCEPL).
- The land is in possession of PP and there is no R&R issue.
- That, there is no difference in the documents submitted Le, Final EIA & its Annexures and presentation being made to the EAC.
- That, our project falls under Activity 2 (a) and Category A Project as per EIA notification, 2006& will be appraised by MoEFCC, New Delhi.

Further, vide an undertaking, it submitted the following:

- This is to certify that the information provided in Form- CAF, Part A, Part B and Part C on PARIVESH, to the Ministry/EAC members and PPT presentation during the EAC meeting to be held on 08th December 2025 have no deviation in respect of the proposal no. IA/CG/CMIN/541337/2025 for EC for coal washery having 14.93 ha of Project area and capacity of 5 MTPA for Coal Washery located at Village-Gatora, Tehsil-Masturi, District-Bilaspur, Chhattisgarh by M/s Clean Coal Enterprises Pvt. Ltd. (CCEPL).
- It is 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 amendment in EC.

**36.2.16: Written Submissions:** During the meeting, PP submitted the following information and documents:

S. No.	Observations	Reply
1.	PP should submit the revised EMP Budget.	Revised EMP budget is submitted.
2.	PP should submit the revised budgetary action plan for public hearing.	Revised PH action plan is submitted.
3.	PP should submit details of land acquired and breakup of existing and expansion land area.	Land area break up with existing and proposed expansion is submitted.
4.	PP should submit the HFL of Arpa river.	Highest Flood Level of Arpa river is 260.15 m.
5.	PP should submit a mitigation plan to control PM <sub>10</sub> and PM <sub>2.5</sub> .	<p>Mitigation measures proposed for the same are as follows:</p> <ol style="list-style-type: none"> <li>1. Installation of fixed and mobile water sprinklers, fine-mist fogging systems, and permanent rain-gun sprinklers at coal handling areas.</li> <li>2. Enclosure of conveyors, crushers, screens, and all transfer points to minimize fugitive dust emissions.</li> <li>3. Provision of dust extraction systems/bag filters at crushers, screens, and transfer points.</li> <li>4. Use of covered/closed conveyor systems for internal transport of coal.</li> <li>5. Maintaining adequate moisture content in coal during handling and processing.</li> <li>6. Maximizing the use of existing railway siding for loading/unloading to reduce road transport emissions.</li> <li>7. Where rail transport is unavailable, ensuring all coal-carrying trucks are fully covered with tarpaulin.</li> <li>8. Use of low-emission, well-maintained vehicles and machinery with valid PUC certificates.</li> <li>9. Strict speed limits (<math>\leq 15-20</math> kmph) for all vehicles operating inside the plant.</li> <li>10. Internal roads are blacktopped/concreted to reduce dust resuspension.</li> <li>11. Regular mechanical sweeping and cleaning of</li> </ol>

S. No.	Observations	Reply
		<p>internal roads.</p> <p>12. Use of anti-smog guns during dry, dusty, or windy conditions.</p> <p>13. Minimizing drop height during loading/unloading operations.</p> <p>14. Creating buffer zones and intensifying greenbelt development around the plant boundary.</p> <p>15. Providing dust masks and PPE to all workers in dust-prone areas.</p> <p>16. Conducting regular maintenance of pollution control equipment, conveyors, and water sprinkling systems.</p> <p>17. Optimizing material handling to reduce unnecessary movement and dust generation.</p> <p>18. Regular environmental training for workers on dust-control protocols.</p> <p>19. Installation of continuous ambient air quality monitoring stations (CAAQMS) to track PM<sub>10</sub> and PM<sub>2.5</sub> levels.</p> <p>20. Conducting regular environmental and pollution control audits for performance monitoring.</p>
6.	PP should submit the greenbelt plantation plan along the transportation route.	Approximately 5,000 trees will be planted along the transportation route by March-2026.
7.	PP should submit the mode of transportation method of ROM coal, rejects and washed coal.	Transportation of ROM coal, washed coal and reject will be through road/rail (60% by rail using own private railway siding and 40% by road with covered trucks).
8.	PP should submit the Plan for improvement of housekeeping facilities.	<p>Plan for the same is as follows:</p> <ol style="list-style-type: none"> <li>1. Establish a dedicated Housekeeping &amp; Safety Team with defined responsibilities.</li> <li>2. Identify and map critical housekeeping zones such as coal conveyors, screening area, crushers, and stockyards.</li> <li>3. Implement daily cleaning schedules using mechanical/industrial sweepers and water sprinkling.</li> <li>4. Provide color-coded waste bins for segregation of metal scrap, oily waste, and general waste.</li> <li>5. Construct impervious flooring in high spillage and washery operation areas to prevent soil and groundwater contamination.</li> <li>6. Conduct regular cleaning and desilting of drains, siltation traps, and collection pits to control slurry runoff.</li> <li>7. Install dust suppression systems such as dry fog or mist sprinklers at dust-prone units.</li> <li>8. Enclose conveyor belts and transfer points to prevent material spillage and dust escape.</li> <li>9. Develop a dedicated scrap yard with proper tagging, storage, and periodic authorized disposal.</li> </ol>

S. No.	Observations	Reply
		<p>10. Ensure segregation, proper handling &amp; lined storage for hazardous and oily wastes.</p> <p>11. Conduct training programs for employees on hygiene, spill prevention, PPE usage, and safe practices.</p> <p>12. Improve internal roads and pedestrian pathways with concrete/ paving to minimize dust accumulation.</p> <p>13. Promote greenbelt development around coal storage and washery operations for dust filtration.</p> <p>14. Install sludge skimmers or equivalent mechanized systems in slurry tanks for odor and overflow control.</p> <p>15. Conduct monthly internal housekeeping audits and assessments to ensure continual improvement.</p> <p>16. Integrate a worker reward/recognition system to encourage ownership of cleanliness and safety.</p> <p>17. Maintain compliance documentation in Environmental Statement and EC Compliance Reports.</p>
9.	PP should submit details of Industries and hospitals/ medical facilities within 10 km.	Details of the same is submitted.
10.	PP should submit the time bound action plan for installation of CAAQMS.	The purchase order for the second CAAQMS was placed on 13.08.2025. The installation was initially planned for completion by November 2025; however, the vendor has reported delays in manufacturing and dispatch. As per the revised schedule, the equipment is expected to be delivered by the end of December 2025, and installation including commissioning will be completed within two weeks thereafter. Accordingly, full compliance will be ensured by mid-January 2026.
11.	PP should submit the time bound action for 3-tier plantation along the project boundary.	<p>A 33% greenbelt has already been developed and maintained across the project area. After expansion, the total earmarked greenbelt area is 4.92 hectares, for which the guideline requirement is approximately 12,300 trees (at 2,500 trees per hectare). Against this requirement, 15,775 trees have already been planted, out of which 10,885 trees have survived, and an additional 4,000 trees were recently planted to strengthen overall density.</p> <p>While the total greenbelt area and plantation count exceed the prescribed requirement, a few stretches along the boundary appear thinner due to natural plant mortality. To address this, we have initiated a time-bound programme of gap-filling and additional plantation. A further 2,000 native and fast-growing trees will be planted by January 2026, ensuring uniform 3-tier plantation thickness across the boundary.</p>

S. No.	Observations	Reply
		The strengthening work is in progress and will be fully completed by the end of January 2026. Thereafter, plantation maintenance, mortality replacement, and replenishment will continue as a regular and continuous activity to sustain the required greenbelt density.
12.	PP should submit an Integrated Surface Water Management Plan for the washery	Integrated Surface Water Management Study along with the plan prepared by NIT, Raipur is submitted.

**Deliberations and Observation of the Committee:**

**36.2.17: The Committee noted the following:**

1. The instant proposal is a brownfield project for seeking expansion in the Coal Washery Project of M/s Clean Coal Enterprises Pvt. Ltd., in the coal washing capacity from 2.5 MTPA to 5 MTPA and in the coal washery area from 10.11 Ha to 14.93 Ha. The said coal washery project is located at village: Gataura; District: Bilaspur; State: Chhattisgarh.
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/ Severely Polluted Area, as per CEPI Assessment 2018.
4. The project does not involves any forest area.
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 no endangered schedule I species in study area of the project. The same has been confirmed by competent authority vide letter no. 252 dated 11.11.2025.
6. ToR for the said proposal was granted vide letter dated 10.06.2023.
7. The raw coal requirement (ROM Coal 5 MTPA) for the proposed washery will be met from Gevra Mines, located within approx. 75 km from washery, Kusmunda Mines, located within 70 km from Washery and Dipika Mines located 75 km away from Washery will be transported by road and rail. The ROM coal from MCL mines will be transported by Rail Rake. Washed Coal will be transported from Washery to HECB Gatora Railway siding than to End User by Indian Railways network for long distance and by road to nearby users. Railway siding is at a distance of 200 m. from site with capacity of 10 rakes per day. Reject Coal is being transported from Washery to HECB GATORA Railway siding then to End User by Indian Railway network for long distance delivery & by road to nearby power plants. All the trucks used for transportation of raw coal, washed coal, rejects is being covered. Committee observed that 60% of the coal will be transported by railway and remaining 40% will be transported by road. Committee opined that, plantation with the native species (of height not less than 4 feet) shall be done on both the side of the entire transportation road. Further PP shall also explore to deploy EV dumpers for transportation of coal. Also, PP 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. PP further committed that approximately 5,000 nos of trees will be planted along the coal transportation road by March 2026.
8. The baseline data for the said project has been carried out during December 2022 – February 2025. The environmental parameters are observed to be within the prescribed norms. Committee observed that the CAAQMS is yet to be installed. PP submitted that

order for the same has been placed and CAAQMS will be installed by January 2026 in the core zone. Committee further opined that, PP shall implement other mitigation measures to bring the PM<sub>10</sub> and PM<sub>2.5</sub> levels down. PP submitted the various mitigation measures proposed. Committee opined that the same shall be implemented in a time bound manner.

9. Committee further deliberated on the house keeping facilities of the said project and sought for measures to improve the same. PP submitted the measures to be followed to improve the house keeping facility of the said project.
10. The water required for the said expansion project is 1070 KLD and the source of water will be both surface water and ground water. NoC for groundwater has been obtained from CGWA vide CGWA/NOC/IND/ ORIG/2023/17557 valid from 13.01 2023 to 12.01.2026 and NoC for surface water has been obtained from Department of Water Resources, Government of Chhattisgarh vide letter No 1314/F4-128/S-2/310JP/09 dated 26.02.2018. No water body is proposed to be diverted for the instant project. Committee also deliberated on the integrated water management study carried out by NIT Raipur. Committee opined that all the recommendations of the same shall be complied by. Zero liquid discharge is proposed in the instant project, hence no excess water will be discharged outside the project area.
11. Power requirement for the expansion project is 2.75 MW and the same will be sourced from solar power and the state grid. 2 DG set of 750 kVA and 250 kVA are proposed for power backup. Committee opined that the PP shall
12. Committee deliberated on the public hearing that took place for the said expansion project on 06.03.2024. Approximately 200 nos. of persons attended the same and 68 nos. of written representations were received. Committee found the PH action plan budget to be inadequate. PP submitted the revised PH action plan with the budget allocated for the same as Rs. 108 Lakhs. Committee opined that the same shall be utilized in the time bound manner.
13. Committee deliberated on the EMP budget submitted by the PP and found the same to be inadequate. PP submitted the revised EMP action plan with the capital cost allotted as Rs. 1110.5 Lakhs and recurring cost allotted as Rs. 243 Lakh/ Annum. Committee opined that the same shall be used in a time bound manner. The total project cost is Rs. 52.55 Crores.
14. PP submitted that more than 21.63 % of existing plant area has been developed as greenbelt i.e., 3.23 Ha and additional 1.71 Ha area will be developed for expansion project. Hence, total green area after expansion will be 4.94 Ha i.e., more than 33% of total plant area. Committee deliberated on the existing plantation developed by the PP and found the plantation to be inadequate at certain patches. PP submitted that natural mortality of plantation. PP submitted that strengthening work is in progress and will be fully completed by the end of January 2026. Thereafter, plantation maintenance, mortality replacement, and replenishment will continue as a regular and continuous activity to sustain the required greenbelt density.
15. The project does not involve rehabilitation and resettlement issues.
16. Committee deliberated on the compliance status of the previous EC conditions and observed that, Certified Compliance Report from RO Office, Raipur was received vide File No. EC-837/RON/2018-NGP/75, dated 26.06.2024. Subsequently, a Show Cause Notice was issued on 27.08.2024 for partially complied and non-complied conditions in EC letter. A detailed reply addressing all points was submitted to the RO Office, Raipur

on 16.10.2024. Thereafter, MoEF&CC directed the RO to verify the compliance of all partially complied and non-complied conditions. Based on the reply by PP and site inspection was held on 30.03.2025, MoEF&CC issued the Closure Report vide letter No. EC-837/RON/2018-NGP/12 dated 21.04.2025. In accordance with the Closure Report requirements, a reply confirming actions taken w.r.t. the partially complied and non-complied points was further submitted to the RO, Raipur on 05.05.2025. Subsequently, a personal hearing was convened under the Chairmanship of Shri Rajat Agarwal, Joint Secretary, MoEF&CC, along with other officials, wherein all partially complied and non-complied points were duly accepted and approved.

Further, 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.

17. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components.
18. The EAC found the written submissions of the project proponent to be satisfactory.

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

**36.2.17:** In view of the foregoing and after the detailed deliberation, the Committee **recommended** the instant proposal for grant of Environment Clearance under the provisions of EIA Notification, 2006 subject to the stipulation of following specific conditions and general conditions based on project specific requirements and uploading of written submissions:

#### **A. Specific Conditions:**

1. Project proponent shall comply with all the conditions prescribed by the SPCB in its comments received vide letter dated 04.12.2025.
2. The Plant shall operate on closed water circuit with a concept of 'Zero Liquid Discharge' (ZLD). 100% water will be recycled and no treated & untreated wastewater shall be discharged outside the boundaries of project area.
3. Water spraying shall be done on regular basis inside and around the project area (within 2 km of the plant site) on a regular interval and a log book should be maintained for the same. The fog cannon must be installed at periphery of the Coal washery in order to suppress the dust.
4. The trucks to be used for transportation of raw coal, washed coal and rejects should be tarpaulin covered. Vehicles proposed to be used for coal transportation shall not be older than 5 years and all should have valid PUC certificates. PP shall also explore the possibility to deploy atleast 20% of the total fleet of e - vehicle/ e - dumper. Regular water spraying shall be done on transportation route through Water tankers.
5. PP 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.

6. Plantation with the native and fast growing species (with saplings of height not less than 4 feet) shall be carried out on both the sides of the coal transportation road by March 2026 with atleast 5000 number of saplings, as committed.
7. The budget proposed for PH is Rs. 108 Lakhs. The budget proposed shall be kept in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 6 years from the date of grant of EC. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six-monthly compliance report. Apart from this, PP shall also carryout community plantation and shall distribute 10,000 plant saplings mostly fruit bearing species to the villagers to plant and nurture the same with incentive till the life of coal washery.
8. PP shall implement the protective measure proposed in Environment Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs 1110.5 Lakhs and Rs 243 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.
9. As committed, CAAQMS shall be installed and commissioned in the core zone by January 2026, as committed. The real time data so generated shall be uploaded on company's website and it will be linked with CPCB &SPCB web portal. In addition, data should also be displayed digitally at entry and exit gate of Plant for public display.
10. The following mitigation measures, as committed, shall be undertaken to reduce the levels of PM<sub>10</sub> and PM<sub>2.5</sub>:
  - i. Installation of fixed and mobile water sprinklers, fine-mist fogging systems, and permanent rain-gun sprinklers at coal handling areas.
  - ii. Enclosure of conveyors, crushers, screens, and all transfer points to minimize fugitive dust emissions.
  - iii. Provision of dust extraction systems/bag filters at crushers, screens, and transfer points.
  - iv. Use of covered/closed conveyor systems for internal transport of coal.
  - v. Maintaining adequate moisture content in coal during handling and processing.
  - vi. Maximizing the use of existing railway siding for loading/unloading to reduce road transport emissions.
  - vii. Where rail transport is unavailable, ensuring all coal-carrying trucks are fully covered with tarpaulin.
  - viii. Use of low-emission, well-maintained vehicles and machinery with valid PUC certificates.
  - ix. Strict speed limits ( $\leq 15-20$  kmph) for all vehicles operating inside the plant.
  - x. Internal roads are blacktopped/concreted to reduce dust resuspension.
  - xi. Regular mechanical sweeping and cleaning of internal roads.
  - xii. Use of anti-smog guns during dry, dusty, or windy conditions.
  - xiii. Minimizing drop height during loading/ unloading operations.
  - xiv. Creating buffer zones and intensifying greenbelt development around the plant boundary.
  - xv. Providing dust masks and PPE to all workers in dust-prone areas.

- xvi. Conducting regular maintenance of pollution control equipment, conveyors, and water sprinkling systems.
- xvii. Optimizing material handling to reduce unnecessary movement and dust generation.
- xviii. Regular environmental training for workers on dust-control protocols.
- xix. Installation of continuous ambient air quality monitoring stations (CAAQMS) to track PM<sub>10</sub> and PM<sub>2.5</sub> levels.
- xx. Conducting regular environmental and pollution control audits for performance monitoring.

11. The following measures, as committed by the PP shall be taken up within 6 months from the date of grant of EC, to improve the house keeping facilities of the said project:

- i. Establish a dedicated Housekeeping & Safety Team with defined responsibilities.
- ii. Identify and map critical housekeeping zones such as coal conveyors, screening area, crushers, and stockyards.
- iii. Implement daily cleaning schedules using mechanical/industrial sweepers and water sprinkling.
- iv. Provide color-coded waste bins for segregation of metal scrap, oily waste, and general waste.
- v. Construct impervious flooring in high spillage and washery operation areas to prevent soil and groundwater contamination.
- vi. Conduct regular cleaning and desilting of drains, siltation traps, and collection pits to control slurry runoff.
- vii. Install dust suppression systems such as dry fog or mist sprinklers at dust-prone units.
- viii. Enclose conveyor belts and transfer points to prevent material spillage and dust escape.
- ix. Develop a dedicated scrap yard with proper tagging, storage, and periodic authorized disposal.
- x. Ensure segregation, proper handling & lined storage for hazardous and oily wastes.
- xi. Conduct training programs for employees on hygiene, spill prevention, PPE usage, and safe practices.
- xii. Improve internal roads and pedestrian pathways with concrete/ paving to minimize dust accumulation.
- xiii. Promote greenbelt development around coal storage and washery operations for dust filtration.
- xiv. Install sludge skimmers or equivalent mechanized systems in slurry tanks for odor and overflow control.
- xv. Conduct monthly internal housekeeping audits and assessments to ensure continual improvement.
- xvi. Integrate a worker reward/recognition system to encourage ownership of cleanliness and safety.
- xvii. Maintain compliance documentation in Environmental Statement and EC Compliance Reports.

12. Project proponent shall comply with all the recommendations of the Integrated Water Management Study Report and Plan, prepared by NIT Raipur, as follows:

- i. Periodic Desilting and Maintenance: Carry out desilting of stormwater drains, settling tanks, and reservoirs before every monsoon to maintain adequate capacity and prevent blockages or overflow during heavy rainfall.
- ii. Water Quality Monitoring: Conduct quarterly monitoring of stormwater, recycled water quality for key parameters such as TSS, TDS, pH, and oil & grease, ensuring suitability for reuse and compliance with environmental norms.
- iii. Sediment and Sludge Management: The settled solids and sludge from thickeners, settling ponds, and stormwater tanks should be periodically collected and reused in reject handling or disposed of in designated lined areas to avoid secondary contamination.
- iv. Automation and Flow Monitoring: Maintain existing digital flow meters with telemetry system, piezometer. Real-time monitoring will improve accountability and ensure compliance with CGWA and CECB water balance requirements.
- v. Timely CGWA Compliance and Maintenance: Ensure strict adherence to CGWA NOC conditions, including timely submission of quarterly and annual reports, flow meter calibration, groundwater level monitoring, and maintenance of recharge structures. The plant should maintain a compliance register and monitoring logbook verified annually by authorized personnel.
- vi. Annual Water Audit: Conduct an annual water audit covering abstraction, consumption, and recycling efficiency to identify optimization opportunities and maintain a specific water consumption below benchmark levels ( $\leq 1.0$  m<sup>3</sup>/tonne).

13. Total greenbelt shall be developed in at least 4.94 Ha of the project area. Strengthening of the existing greenbelt shall be done by January 2026. Thereafter, plantation maintenance, mortality replacement, and replenishment shall continue as a regular and continuous activity to sustain the required greenbelt density.
14. Raw coal, washed coal and rejects shall be stored in covered storage facility. Fixed-type high-pressure sprinkler shall be installed in this storage yards.
15. Project proponent shall construct a 20 ft height wind barrier with galvanized/metal sheet all around the boundary of the washery and install fixed-type water sprinkler all along the boundary wall.
16. 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.
17. Project proponent shall apply for amendment with valid reasons in the conditions of the previous EC, which are not applicable on the same within 6 months from the date of grant of EC.

## **B. Standard Conditions:**

### **I. Statutory Compliance:**

- i. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- ii. The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
- iii. Solid waste/hazardous waste generated in the washery needs to address in accordance to the Solid Waste Management Rules, 2016 / Hazardous & Other Waste Management Rules, 2016.
- iv. Coal beneficiation practices shall be carried out under strict adherence to provisions of the Factories Act, 1957 and subordinate legislations made there under.

## **II. Air Quality Monitoring and Preservation:**

- i. Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO2 and NOx. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. carried out at least once in six months.
- ii. 2 number of Continuous ambient air quality monitoring stations as prescribed in the statue be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM10, PM2.5, SO2 and NOx. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc to be carried out at least once in six months.
- iii. All approach roads shall be black topped and internal roads shall be concreted. The roads shall be regularly cleaned. Coal transportation shall be carried out by covered cross country belt conveyor.
- iv. Vehicular emissions shall be kept under control and regularly monitored. The vehicles having 'PUC' certificate from authorized pollution testing centres shall be deployed for washery operations.
- v. Hoppers of the coal crushing unit and other washery units shall be fitted with high efficiency bag filters/mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of closed belt conveyor systems and from transportation roads.
- vi. The raw coal, washed coal and middlings shall be stacked properly at earmarked site (s) within stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored mineral does not catch fire.

## **III. Water Quality Monitoring and Mitigation Measures:**

- i. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards

vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.

- ii. The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No. J- 20012/1/2006-1A.11 (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for compliance.
- iii. Industrial waste water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time.
- iv. The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the washery. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the riverfront side stabilized with plantation so as to withstand the peak water pressure preventing any chance of inundation.
- v. Heavy metal content in raw coal and washed coal shall be analysed once in a year and records maintained thereof.
- vi. An Integrated Surface Water Management Plan for the washery area up to its buffer zone considering the presence of any river/rivulet/pond/lake etc. with impact of coal washing activities on it, shall be prepared, submitted to MoEF&CC and implemented.
- vii. Waste Water shall be effectively treated and recycled completely either for washery operations or maintenance of green belt around the plant.
- viii. No ground water shall be used for coal washing unless otherwise permitted in writing by competent authority (CGWA) or MoEFCC. The make-up water requirement of washery should not exceed 1.5 m<sup>3</sup>/tonne of raw coal.
- ix. Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO. Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.
- x. The project proponent shall take all precautionary measures to ensure riverine/riparian ecosystem in and around the coal mine up to a distance of 5 km. A riverine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.

#### **IV. Noise Monitoring and Prevention:**

- i. The noise level survey shall be carried out as per the prescribed guide lines to assess noise exposure of the workers at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.
- ii. Adequate measures shall be taken for control of noise levels as per noise pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and

guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored

#### **V. Green Belt and EMP:**

- i. The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.

#### **VI. Public hearing and Human Health Issues:**

- i. Adequate illumination shall be ensured in all washery locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry & its RO on six-monthly basis. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any.
- ii. Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
- iii. Implementation of the action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.
- iv. The project proponent shall follow the mitigation measures provided in this Ministry's OM No. Z11013/5712014-IA.II (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.

#### **VII. Miscellaneous:**

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's web site permanently.
- ii. 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 has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.

- v. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- vi. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. No change in coal beneficiation process and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC) with such conditions mentioned therein. No change in the maximum quantum of raw material feed per annum against the approved washery capacity shall be made.
- xi. 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.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- xiv. The Regional Office of this Ministry 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.
- xv. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
- xvi. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- xvii. Coal stacking plan shall be prepared separately for raw coal, clean coal, middling and rejects.
- xviii. Efforts should be made to reduce energy consumption by conservation, efficiency improvements and use of renewable energy.

**Agenda No. 36.3:**

**36.3:** Datima Underground Coal Mine (area: 807.91 Ha having production capacity 0.36 MTPA) by M/s Shree Cement Limited, located at villages: Rai, Datima, Kharsura, Kumda and Laxmanpur; District: Surajpur; State: Chhattisgarh – Environment Clearance – reg.

**[Online Proposal no. IA/CG/CMIN/549387/2025; Consultant: Min Mec Consultancy Private Limited: NABET/EIA/25-28/RA 0399 – valid up to 30.03.2028]**

**36.3.1:** M/s. Shree Cement Limited has made an online application vide proposal no. IA/CG/CMIN/549387/2025 dated 30.08.2025 along with the copy of EIA/ EMP report, CAF & Form seeking Environment Clearance (EC) under the provisions of 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 appraised at Central Level. The project does not attract General Conditions as specified in Schedule of the EIA Notification, 2006.

Datima Underground Coal Mine (area: 807.91 Ha having production capacity 0.36 MTPA) by M/s Shree Cement Limited, located at villages: Rai, Datima, Kharsura, Kumda and Laxmanpur; District: Surajpur; State: Chhattisgarh.

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

**36.3.2: Environmental Site Settings:**

The ML area is covered under Survey of India Topo Sheet No 64I/15 and 64I/16 and is bounded by the geographical coordinates ranging from 23° 13' 48.083" N to 23° 15' 59.498" N latitude & 82° 57' 41.843" E to 82° 59' 14.152" E longitude.

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 245.83 Ha of forestland. Application for obtaining Stage – I forest clearance has been submitted on the Parivesh portal vide application no. FP/CG/MIN/QRY/456133/2023 dated 20.12.2023. There is no broken forestland and the said project does not involves 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 reserve/ elephant corridor etc. As per the certification issued by the Principal Chief Conservator of Forests (Wildlife and Biodiversity Conservation) vide letter no. 3583 dated 13.08.2024, the distance from the proposed mine lease boundary to Tamor Pingla Wildlife Sanctuary is 28.352 km.

There is presence of wildlife species in the said area (namely: Jackal, Sloth bear, Bengal Monitor, Asiatic Elephant, Striped Hyena, Indian pangolin, Leopard, Python, Bengal Monitor, Indian Peafowl). The Wildlife Conservation Plan for Schedule-I species in the core and buffer zones has been approved vide order dated 18.07.2025 by the Chief Conservator of Forest (Wildlife and Biodiversity Conservation) cum Chief Wildlife Protector, Chhattisgarh. A separate budget of Rs. 173.008 lakh has been provisioned for implementation over a period of 10 years.

**Mine Lease Details:** PP has submitted the following details of the mine lease area:

S. No.	Govt. Order/ Notification as the case may be	Area (Ha)
1	Proposed ML area as per approved mining plan - Ministry of Coal's vesting order no.: NA-104/12/2023-NA dated 08.06.2023	807.91
	<b>Total</b>	807.91
2	Details of LOI (for area outside lease area)	0
	<b>Grand Total</b>	807.91

Lease yet to be executed, lease period will 30 years.

**Other Sensitive Receptors:**

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)			
	S. No.	Name of Villages	Distance (KM)	Direction
i. Habitation	1	Kumda		Within
	2	Rai		Within
	3	Datima		Within
	4	Laxmanpur		Within
	5	Gangikot	0.7	S
	6	Kamalpur	0.9	E
	7	Nawapara	2.1	NW
	8	Kharsura	2.1	WNW
	9	Mongramorha	2.3	SW
	10	Kataipara	2.5	E
	11	Batra	2.5	NE
	12	Ramnagar	2.5	WSW
	13	Bishrampur	2.7	SSE
	14	Govindpur	2.8	SE
	15	Jhumarpura	2.9	NW
	16	Piprapara	3	W
	17	Bishrampur	3.1	S
	18	Batra	3.2	NNW
	19	Ramnagar	3.2	W
	20	Cheurdori	3.3	ENE
	21	Balrampur	3.4	ESE
	22	Sudamanagar	3.4	NE
	23	Kaskela	3.5	E
	24	Dobripara	3.6	W
	25	Khursiya	3.7	N
	26	Ghoghra	3.7	NE
	27	Karonji	3.7	NW
	28	Karsu	4.3	E
	29	Kenapara	4.3	NW
	30	Nainpur	4.3	SW
	31	Sohagpur	4.5	WNW
	32	Rampur	4.6	W
	33	Karampur	4.7	SE
	34	Kasalgiri	4.9	ESE
	35	Karampur	5	SE
ii. School	S. No.	Name of schools, college, educational institute	Distance (km)	Direction
	1	Anganwadi Centre Kamlapur	Within	
	2	Government School Kumda Basti	Within	
	3	Govt Primary School linepara Kumdabasti	Within	

Project site proximity to sensitive area		Distance in km (within 5 km from the ML area)		
i. School	4	Government High School Datima	Within	
	5	Primary School Salehapara, Rai Bhaiyathan	0.13	E
	6	Govt. Primary School, Gagikort Khas	0.66	S
	7	Govt. Primary School Rai	0.67	N
	8	Government Higher Secondary School Batra	2.8	NNW
	9	Sarvamangala Vidyapeeth Misirpara Batra	2.84	NW
	10	Middle School Batara	2.96	NNW
	11	Government Higher Secondary School Karanji	3.09	NW
	12	Aanganbadi (Jhumarpura)	3.43	NW
	13	Sasakiye Middle School	3.53	NE
	14	Primary School Mishir Para	3.55	NW
	15	Middle School Sonpur	3.61	ENE
	16	Government Primary School, Pre-Secondary School Sohagpur	3.61	WNW
	17	Swami Vivekanand School, Bishrampur	3.75	S
	18	Higher Secondary School	3.76	ENE
	19	Govt. High School Ramnagar	4.24	W
	20	Veena Kanya Mahavidyalaya	4.36	S
	21	Bhartiya Vidya Peeth Higher Secondary School	4.37	SE
	22	Dayanand Anglo Vedic Public School	4.62	S
	23	Global Public School	4.7	ENE
	24	Rajkumar Public Higher Secondary School Bishrampur	4.85	S
	25	Primary School Kaskela	4.86	E
	26	Govt. Girls Higher Secondary School Bishrampur	4.9	S
	27	Swami Aatmanand Govt Hindi Medium School, Bishrampur	4.96	S
ii. River/ Waterbody	S. No.	Name of River/ nala	Distance (km)	Direction
	1.	Batara Dam	1.1	N
	2.	Pasang Nala	1.5	S
	3.	Gobri Nala	1.6	NE
	4.	Rehar River	3.1	SW
	5.	Pathariya Nala	4	N
	6.	Jhanpi Nala	4.2	NE
	7.	Reservoir near Kaskhela	4.8	E
iii. Forest	S. No.	Particulars	Distance (Km)	Direction
	1.	Kumda R.F.	Within	
	2.	Pasang R.F.	Within	
	3.	P.F. near Ramnagar	0.5	SW
	4.	P.F. near Batra	1.9	NNE

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)			
	5.	Kaskela P.F.	3.3	ESE
	6.	Sangara P.F.	4.1	NE
	7.	P.F. near Nainpur	4.5	SW
v. Archaeological Survey of India (ASI) protected site	Nil			
vi. Any other	Nil			

No diversions are proposed for the said project.

Mitigation measures proposed for the sensitive receptors: 13.53 Ha greenbelt in 150 m around facility area towards habitation and forest area has been provided to act a buffer.

### 36.3.3: Details of ToR:

Date of application	ToR letter Details	Date of Accord	ToR Validity
06/12/2023	IA-J-11015/44/2023-IA-II(M)	29.01.2024	28.01.2028
01/12/2023	TOR amendment- IA-J-11015/44/2023-IA-II(M)	09.09.2024	

**36.3.4: Details of Mining Plan:** The Mining Plan and Mine Closure Plan approved by Ministry of Coal vide letter no. Datima Coal Mine CT/APP00267/2023, dated 08.04.2024.

1. Method of mining to be adopted shall be fully mechanized underground mining using bord and pillar method with deployment of continuous miners.
2. Total geological reserve reported in the mine lease area are 13.3 MT and the total mineable reserves are 8.435 MT out of which the extractable reserves are 4.208 MT. Percentage of extraction is 31.64%.
3. There are 3 nos of seams out of which only 1 seam is workable with the thickness ranging between 0.05-3.64 m. The average grade of coal is G7.
4. Life of mine is 15 years.
5. Topsoil removed from UG facility area will be simultaneously reutilized in plantation & greenbelt development area of 13.53 ha (150 m around facility towards habitation and forest area).
6. There is one number of external waste dump proposed in the in an area of 0.20 Ha, with the height of 8 m. Waste in dump will be of stony nature and will be reused for various purposes such as raising plinth, construction of a structures, stone pitching of settling pond, etc. to the extent possible. At the end of the life of mine, the stone will be reutilized for sealing off of the entries and levelling of the area.
7. Details of Land use:
  - a) Pre-mining land use pattern:

Land use pattern	Within ML Area (ha)	Outside ML area (ha)	Total
Agricultural Land	477.87	0	477.87
Forest land	245.83	0	245.83
Waste Land	-	-	-
Grazing Land	-	-	-
Surface water Body	9.710	-	9.710
Settlements	30.18	0	30.18
Roads & Railway land	26.595	-	26.595
Others	17.725	0	17.725
<b>Total</b>	<b>807.91</b>		<b>807.91</b>

- b) Post – mining land use pattern:

S. No.	Type	Total Area (ha.)	Reclaimed Area (ha.)	Un- reclaimed area (ha.)
1.	Excavation/Quarry Area:	-	-	-
	(a) Backfilled areas	-	-	-
	(b) Excavated Void	-	-	-
4.	External Dump	0.20	0.20	-
5.	Safety zone	-	-	-
6.	Road, Infrastructure, UG entry	0.99	0.99	-
7.	Garland Drains	-	-	-
8.	Embankment	-	-	-
9.	Undisturbed Area/ Under UG Mining*	791.87	-	791.87
10	Green belt	13.53	13.53	-
11	Others			
	Open area in facility	1.05	1.05	
	Coal stock yard	0.24	0.24	
	Settling tank	0.03	0.03	
	<b>Total</b>	<b>807.91</b>	<b>16.04</b>	<b>791.87</b>

\* Out of 791.87 ha, underground mining will take place under 407.6 ha

8. **Details of transportation:** Coal from the Datima coal mine shall be utilized either at the company's cement plant at Shree Raipur Cement Plant (SRCP), village Khaparadih, Tehsil Simga, District Baloda Bazar- Bhatapara, Chhattisgarh (approximately 310 km) or sold to open market. Transportation of Coal will be done by road or Road-cum-rail.

- In pit:** Coal extracted from the underground working face will be loaded into the Gate Belt Conveyor using shuttle cars. The Gate Belt will transfer the coal to the Trunk Belt system, which will transport it to the surface bunkers. From the bunkers, coal will be dispatched further via trucks for onward transportation.
- Surface to siding:** Coal will be loaded from the bunkers of the Coal Handling Plant (CHP) into consumers' trucks for onward transportation either directly to their destinations or to the nearest railway siding by road.
- Siding to loading:** Front-end loaders will be used to load coal into the wagons of the rake for rail transportation.
- Proposed change in transportation:** No change is proposed.

9. Reclamation: Afforestation shall be progressively carried out in 16.04 Ha (including plantation and agriculture). This will include greenbelt of 13.53 Ha (density of plantation will be 2500 trees per Ha) and the agriculture will be developed in 0.20 ha External Dump, 0.55 ha Road, 0.09 ha Infrastructure, 0.35 ha UG entry, 1.05 ha Open area in facility, 0.24 ha Coal stock yard, 0.03 ha Settling tank.

### 36.3.5: Baseline Data:

Period	01.10.2023 to 31.12.2023
AAQ parameters at 12 Locations (min and max)	Core zone PM <sub>2.5</sub> = 26.2 to 32.2 $\mu\text{g}/\text{m}^3$ PM <sub>10</sub> = 45.2 to 54.0 $\mu\text{g}/\text{m}^3$ SO <sub>2</sub> = 6.1 $\mu\text{g}/\text{m}^3$ to 8.7 $\mu\text{g}/\text{m}^3$ NO <sub>X</sub> = 6.6 $\mu\text{g}/\text{m}^3$ to 9.1 $\mu\text{g}/\text{m}^3$ CO = 0.229 To 0.344 $\mu\text{g}/\text{m}^3$ Buffer zone PM <sub>2.5</sub> = 21.3 to 42.2 $\mu\text{g}/\text{m}^3$ PM <sub>10</sub> = 38.2 to 72.39 $\mu\text{g}/\text{m}^3$ SO <sub>2</sub> = BDL(<6.0 $\mu\text{g}/\text{m}^3$ ) to 19.9 $\mu\text{g}/\text{m}^3$ NO <sub>X</sub> = BDL (<6.0 $\mu\text{g}/\text{m}^3$ ) to 27. 8 $\mu\text{g}/\text{m}^3$ CO = 0.115 To 0.802 $\mu\text{g}/\text{m}^3$
Incremental GLC Level	<b>Core zone</b> PM <sub>10</sub> = 0.34 $\mu\text{g}/\text{m}^3$ (at Kumda Village within ML) PM <sub>2.5</sub> = 0.07 $\mu\text{g}/\text{m}^3$ (at Kumda Village within ML)

Period	01.10.2023 to 31.12.2023																																			
	<p>SO<sub>2</sub> = 0.0018 µg/m<sup>3</sup> (at Kumda Village within ML)  NO<sub>X</sub> = 0.35 µg/m<sup>3</sup> (at Kumda Village within ML)</p> <p><b>Buffer zone</b>  PM<sub>10</sub> = 0.46 µg/m<sup>3</sup> (at Karonji Village 4.1 km in NW Direction )  PM<sub>2.5</sub> = 0.16 µg/m<sup>3</sup> (at Karonji village 4.1 km in NW Direction)  SO<sub>2</sub> = 0.005 µg/m<sup>3</sup> (At Patrapara village 2.2 km in SW Direction)  NO<sub>X</sub> = 0.97 µg/m<sup>3</sup> (at Karonji village, 4.1 km in NW Direction)</p>																																			
Ground water quality at 08 Locations	pH: 5.7 to 7.6, Total Hardness: 40 to 252 mg/l, Chlorides: 12 to 87 mg/l, Fluoride: BDL(<0.1 mg/l) to 1.87 mg/l. Heavy metals: Copper BDL (<0.01) to 0.017 mg/l, Iron BDL(<0.1) to 0.92 mg/l besides others																																			
Surface water quality at 04 Locations	pH: 6.7 to 7.2 ; DO: 7.2 to 7.8 mg/l and BOD: 1.2 to 9 mg/l, COD: BDL to 20 mg/l																																			
Noise levels Leq (Day and Night)	43.86 to 54.06 dBA for the daytime and 37.01 to 48.48 dBA for the Night time.																																			
Traffic assessment Study findings	<p>Traffic study has been conducted at (1) Bisrampur road, Nitin petrol pump near Kumda village (2) Bisrampur road near Bisrampur town , (3) NH-43 near Keshavnagar village which is approximately 0 (within ML), 2.7, 5.7 km from the mine site.</p> <p>Transportation of mineral will be done 100% by road direct to end user or to siding.</p> <p>Existing PCU is 2245, 2611, 8507 PCU/day on (1) Bisrampur road, Nitin petrol pump near Kumda village (2) Bisrampur road near Bisrampur town , (3) NH-43 near Keshavnagar village and existing level of service (LOS) is:</p> <table border="1"> <thead> <tr> <th>Road</th> <th>V (Volume in PCU/day (avg.))</th> <th>C Capacity in PCU/day</th> <th>Existing V/C Ratio</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>Bishrampur road, Nitin petrol pump near Kumda village</td> <td>2245</td> <td>30000</td> <td>0.0748</td> <td>A</td> </tr> <tr> <td>Bishrampur road near Bisrampur town</td> <td>2611</td> <td>30000</td> <td>0.087</td> <td>A</td> </tr> <tr> <td>NH-43 near Keshavnagar village</td> <td>8507</td> <td>30000</td> <td>0.283</td> <td>A</td> </tr> </tbody> </table> <p>PCU load after proposed project will be (1) 2245 (Existing) + 240 (Additional) PCU/day, (2) 2611 (Existing) + 240 (Additional) PCU/day, (3) 8507 (Existing) + 240 (Additional) PCU/day and level of service (LOS) will be:</p> <table border="1"> <thead> <tr> <th>Road</th> <th>V (Volume in PCU/day)</th> <th>C Capacity in PCU/day</th> <th>Proposed V/C Ratio</th> <th>LOS</th> </tr> </thead> <tbody> <tr> <td>Bishrampur road, Nitin petrol pump near Kumda village</td> <td>2485</td> <td>30000</td> <td>0.084</td> <td>A</td> </tr> <tr> <td>Bishrampur road near</td> <td>6451</td> <td>30000</td> <td>0.095</td> <td>A</td> </tr> </tbody> </table>	Road	V (Volume in PCU/day (avg.))	C Capacity in PCU/day	Existing V/C Ratio	LOS	Bishrampur road, Nitin petrol pump near Kumda village	2245	30000	0.0748	A	Bishrampur road near Bisrampur town	2611	30000	0.087	A	NH-43 near Keshavnagar village	8507	30000	0.283	A	Road	V (Volume in PCU/day)	C Capacity in PCU/day	Proposed V/C Ratio	LOS	Bishrampur road, Nitin petrol pump near Kumda village	2485	30000	0.084	A	Bishrampur road near	6451	30000	0.095	A
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Period	01.10.2023 to 31.12.2023				
	Bisrampur town				
	NH-43 near Keshavnagar village	8747	30000	0.292	A
Note: As per IRC-64-1990. Guidelines for capacity of roads in rural area.					
Conclusion: The level of service will be "A" after including additional traffic due to proposed project.					
Flora and fauna	There are 3 nos. Schedule I species in core zone, namely, Jackal ( <i>Canis aureus</i> ), Sloth bear ( <i>Melursus ursinus</i> ), Bengal Monitor ( <i>Varanus bengalensis</i> ). There are 9 nos. Schedule I species in buffer zone, namely, Jackal ( <i>Canis aureus</i> ), Sloth bear ( <i>Melursus ursinus</i> ), Asiatic Elephant ( <i>Elephas maximus</i> ), Striped Hyaena ( <i>Hyaena hyaena</i> ), Indian pangolin ( <i>Manis crassicaudata</i> ), Leopard ( <i>Panthera pardus</i> ), Python ( <i>Python molurus</i> ), Bengal Monitor ( <i>Varanus bengalensis</i> ), Indian Peafowl ( <i>Pavo cristatus</i> ). The Wildlife conservation Plan for Schedule I species in the core and buffer zone had been approved vide order dated 18.07.2025 through Shri Sudhir Kumar Agarwal, Chief Conservator of Forest (Wildlife and Biodiversity Conservation) cum Chief Wildlife Protector, Chhattisgarh. A separate budget of Rs. 173.008 Lakh has been provisioned for 10 years.				
Water Requirement	Source of Water: Potable Water - Ground Water (through borewells) and Industrial Water - Mine water (seepage) / surface reservoir (rainwater) Ground Water Interception: Yes, will take place Water Requirement: 362 KLD (Industrial 326 KLD & potable 36 KLD) NOC (For surface water): NA NOC (Ground Water): No. NOC/MIN/CG/2025/8187 dated 20.11.2025				

**36.3.6: Details of Water Requirement:** Water requirement for the said project is 362 KLD and the same will be sourced from ground water (350 KLD) and recycled water (12 KLD). NOC for the same has been obtained from CGWA vide letter no. NOC/MIN/CG/2025/8187 dated 20.11.2025. PP submitted that no water body is proposed to be diverted for the said project.

**36.3.7: Public Consultation/ Hearing:**

Details of advertisement given	Dainik Bhaskar, The Indian Express
Date of public consultation	17.06.2025
Venue	Jambori Ground, Village Datima, District Surajpur, Chhattisgarh
Presiding Officer	Additional Collector, Surajpur
Number of Person Attended Hearing	300 nos (approx.)
Number of representation received in writing from the district and outside of district, please give details:	163 Nos
Major issues raised	<ul style="list-style-type: none"> <li>• Control of pollution (air, water, noise)</li> <li>• Protection of Wildlife and Forests</li> <li>• Educational facilities improvement</li> <li>• Plantation</li> <li>• Road development</li> <li>• Medical&amp; health facilities provisioning</li> <li>• Water related issues (supply, infrastructure, impact on water table, natural water bodies' protection, etc.)</li> <li>• Land compensation</li> <li>• Subsidence</li> <li>• CSR &amp; Peripheral development</li> </ul>

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

Datima Underground Coal Mine (Rated Capacity: 0.360 MTPA, ML area: 807.91 ha) at Village Rai in Taluka Bhatgaon, Villages Datima & Kharsura in Taluka Surajpur, Villages Kumda & Laxmanpur in Taluka Latori, District Surajpur, Chhattisgarh								
S. No .	Point Raised During Public Hearing	Action Plan with physical target	CER Budget (Rs. lakhs)					
			Year 1	Year 2	Year 3	Year 4	Year 5	Total
A	ENVIRONMENT							
1	Control of pollution (air, water, noise)	<p>Company will carried out within the mine in line with the details given in Environment Management Plan (detailed in Chapter 4 &amp; 10 of EIA), implementation starting from commencement of mine till the end of life.</p> <p>*air pollution control - water sprinkling, green belt, maintenance of trucks, etc.</p> <p>* water pollution - STP, ETP, garland drains leading to settling tank, reuse of mine seepage water, no effluent discharged outside facility area, etc.</p> <p>*Noise- greenbelt, maintenance of trucks &amp; machines, etc.</p> <p>The capital investment on environmental management plan is envisaged as Rs.190.91 lakhs and recurring expenditure will be Rs. 225.11 lakhs/year as detailed in Table 10.2 &amp; 10.3</p>	95.05	47.52 5	47.52 5	47.52 5	47.52 5	285.15
2	Protection of Wildlife and Forests	Wildlife Conservation and Management Plan has been prepared and approved by PCCF(WL) & CWLW	64.46	34.90 3	20.08 6	13.32 1	10.63 7	143.40 7
B	EDUCATION							
3	ITI Training	Support and Contribution to Government ITI, Ambikapur will be done	5	5	5	5	5	25
4	Higher education facility	Support for Scholarship to students and youth for higher education in 8 villages around project (8 villages- Rai, Datima, Kumda, Laxmanpur, Ghoghra, Kharsura, Kamalpur, Gangikot), 10 students (with preference to land sellers)	4	4	4	4	4	20
5	Educational facilities	Monetary support to Schools, Government College & underprivileged students-Markers, stationary, books, etc. will be provided to under privileged students in the schools of 8 villages (8 villages- Rai, Datima, Kumda, Laxmanpur, Ghoghra, Kharsura, Kamalpur, Gangikot)	8	8	8	8	8	40
		Supporting meritorious students- Laptops to top three rankers in Chhattisgarh Board of Secondary Education of Class 10 of Govt. High School (8 villages - Rai, Datima, Kumda, Laxmanpur, Ghoghra, Kharsura, Kamalpur, Gangikot)	5	5	5	5	5	25
		Support for Computer & English education in government school of Datima and Rai village	2	2	2	2	2	10
C	PLANTATION							
6	Greenbelt & plantation in villages	Support to gram panchayat for plantation of 5000 trees in 5 years in nearby 5 villages (Rai, Datima, Kumda, Laxmanpur, Kharsura, Kamalpur) in and around the project area, at schools and medical centres, which will also help in cooling the atmosphere, act as carbon sink.	5	5	5	5	5	25
7	Plantation along roads	Plantation along roads, 1000 saplings/ year (Ramnagar, Khursura, Karonji)	8	8	8	8	8	40
D	ROAD							

Datima Underground Coal Mine (Rated Capacity: 0.360 MTPA, ML area: 807.91 ha) at Village Rai in Taluka Bhatgaon, Villages Datima & Kharsura in Taluka Surajpur, Villages Kumda & Laxmanpur in Taluka Latori, District Surajpur, Chhattisgarh						
S. No .	Point Raised During Public Hearing	Action Plan with physical target	CER Budget (Rs. lakhs)			
			Year 1	Year 2	Year 3	Year 4
<b>DEVELOPMENT</b>						
8	Internal village road repairing	Support to gram panchayat for village road strengthening on need basis in 5 villages (Rai, Datima, Kumda, Laxmanpur, Kharsura)	10	10	10	10
9	Streetlight installation	Support to gram panchayat for solar streetlight in 5 villages (Rai, Datima, Kumda, Laxmanpur, Kharsura) on need basis @20 nos./year	5	5	5	5
<b>E MEDICAL &amp; HEALTH</b>						
10	Health/ medical centre and Health Camps and Mobile Ambulance	Support to Govt. Hospitals and PHC's for regular & systematic health check-up program/ Camps for General, Eye & Dental Camp etc for villagers to monitor their overall health, identify any emerging health issues and provide necessary treatments or preventive measures, Support for medical equipment & essential supplies in sub centres and PHC's for distribution and Support for Mobile Ambulance (for facilitating primary health treatment) in nearby villages Target- 5 villages (Rai, Datima, Kumda, Laxmanpur, Kharsura)	20	10	10	10
11	Hospital (super speciality) facility	Support and Contribution to District Administration, existing government hospital/ PHC/Sub Centre's for installation of Sanitary Napkin Vending Machine in nearby School, Anganwadi & Gram Panchayat in consultation with local authorities Target- 5 villages (Rai, Datima, Kumda, Laxmanpur, Kharsura)	5	5	5	5
<b>F LIVELIHOOD</b>						
12	Local employment based on the qualification and experience.	Employment will be given to the locals as per their qualifications and experience. Local persons will be given preference, taking into consideration their experience, eligibility	Wages will be paid as per Govt and Company's rules and regulations			0
13	Support to Women, Self Help Groups	Support to gram panchayat for setup of Self-help groups (SHGs), Livelihood support to women etc. under company's entrepreneurship development programs in Datima, Rai, Kumda & Laxmanpur village	4	4	4	4
14	Skill development programmes	Support to gram panchayat for setting up of skill development training centre for income generating activity through mobile repair, Cycle/ 2-W/4-W repair, Sewing machines (10 nos./ year) for tailoring classes, Beauty Parlour training, computer training, vocational training 25 nos/ year for unemployed youth & women to promote self-employment	5	5	5	5
15	Support for improvement in agricultural practices	Support to gram panchayat to farmers for provision of sprayer pump (20 nos. / year) for local farmers through Local Panchayat	1.2	1.2	1.2	1.2
		Support to gram panchayat for agriculture training in every village of the core zone (Rai, Datima, Kumda and Laxmanpur) every year on different topics related to agriculture, soil health, crop yield, etc	2	2	2	2
16	Income after mine closure	Facilitation of employees to find employment in other mines/ projects/ businesses, develop skills as per the above listed programs and become self employed	will be carried out in last three years of the mine			0
<b>G WATER</b>						
17	Strengthening of the existing bathing ghat & cleaning of bathing pond,	Support to gram panchayat for strengthening of the existing bathing ghat & cleaning of bathing pond, Reclamation and cleaning of village ponds will be done in villages Rai, Datima, Kumda, Laxmanpur, Ghoghra, Kharsura, Kamalpur, Gangikot	8	8	1.6	1.6

Datima Underground Coal Mine (Rated Capacity: 0.360 MTPA, ML area: 807.91 ha) at Village Rai in Taluka Bhatgaon, Villages Datima & Kharsura in Taluka Surajpur, Villages Kumda & Laxmanpur in Taluka Latori, District Surajpur, Chhattisgarh						
S. No	Point Raised During Public Hearing	Action Plan with physical target	CER Budget (Rs. lakhs)			
			Year 1	Year 2	Year 3	Year 4
17	Reclamation and cleaning of village ponds	in consultation of local gram panchayat				
	Water supply	Support to gram panchayat for Installation (& maintenance) of community RO at village Datima & Rai	4	1	1	1
18	Protection of natural drains and maintaining water quality	Grassing & plantation on slopes of natural drain under consultation of Gram Panchayat for 4 villages Rai, Datima, Kumda, Laxmanpur	4	4	2	2
19	Strengthening of Drainage	Support to gram panchayat for strengthening of draining in nearby villages of Rai, Datima, Kumda, Laxmanpur, Ghoghra, Kharsura, Kamalpur, Gangikot	8.0	8.0	8.0	8.0
20	Management of decline of water table	Regular monitoring of ground water level through peizometers at 2 locations	1.5	0.25	0.25	0.25
		Support to gram panchayat for supply of water through tanker during dry season and festivals in villages of mine lease area (Rai, Datima, Kumda, Laxmanpur, Ghoghra, Kharsura, Kamalpur, Gangikot)	2.0	2.0	2.0	2.0
		Support to gram panchayat for borewell/ handpumps in nearby Villages, Schools, community centre & cremation area etc.	10	10	10	10
		Water shed development activities in catchment and rainwater harvesting in villages (Rai, Datima, Kumda, Laxmanpur, Ghoghra, Kharsura, Kamalpur, Gangikot)	10	10	10	3
H	LAND					
21	Land compensation & employment to land losers	Land is being purchased through direct negotiation at mutually agreed rates, terms and conditions. Preference will be given to land losers for employment as per eligibility and qualification	Land rates are being paid as mutually agreed with land owner			
22	Subsidence	Regular inspection of the land surface through drone over the area where UG working is taking place; filling, levelling and reclamation of any unforeseen incident of subsidence	1	1	1	1
I	SPORTS					
23	Development of sports activities	Supply through gram panchayat of sports material (football, bat, balls, wickets, etc.) in the school- 4 villages (Rai, Datima, Kumda, Laxmanpur)	1	1	1	1
		Support to gram panchayat of development of playground in 4 villages (Rai, Datima, Kumda, Laxmanpur)	4	4	4	4
J	COMMUNITY FACILITIES & FESTIVALS					
24	Construction of Rest shelter	Support to gram panchayat for renovation/ strengthening of rest shelter at Bus Stand, Crematorium, Gram Panchayat Offices in nearby 8 villages (Rai, Datima, Kumda, Laxmanpur, Ghoghra, Kharsura, Kamalpur, Gangikot)	4	4	0.8	0.8
25	Contribution towards local festivals of different religions	Support to gram panchayat for social development in 5 villages of Villages Rai, Datima, Kumda, Kharsura and Laxmanpur for festivals & cultural programmes	10	10	10	10
26	Strengthening of community hall with library	Support to gram panchayat for renovation/ strengthening of community hall with library-1 no. each in Datima & Rai village	20	4	4	4
<b>TOTAL INCLUDING EMP &amp; WLCP (A+B+C+D+E+F+G+H+I+J)</b>			<b>336.21</b>	<b>228.878</b>	<b>202.461</b>	<b>188.696</b>
						<b>186.012</b>
						<b>1142.257</b>

Datima Underground Coal Mine (Rated Capacity: 0.360 MTPA, ML area: 807.91 ha) at Village Rai in Taluka Bhatgaon, Villages Datima & Kharsura in Taluka Surajpur, Villages Kumda & Laxmanpur in Taluka Latori, District Surajpur, Chhattisgarh						
S. No	Point Raised During Public Hearing	Action Plan with physical target	CER Budget (Rs. lakhs)			
			Year 1	Year 2	Year 3	Year 4
		<b>TOTAL EXCLUDING EMP &amp; WLCP</b>	<b>168.7</b>	<b>138.4</b>	<b>126.8</b>	<b>119.8</b>
				<b>5</b>	<b>5</b>	<b>5</b>
						<b>673.7</b>

**Note:** In addition - Support for CSR activities, in a phase wise manner, as per the needs of the villagers after consultation with the Sarpanch and Village Committee. Target villages within ML - Rai, Datima, Kumda and Laxmanpur; within 2 km - Ghoghra, Kharsura, Kamalpur, Gangikot; 2 to 5 km - Ramnagar, Dobripura, Katapara, Piprapara, Nawapara, Khursiya, Batara, Kanakpura, Chaurdari, Karsu, Kaskela, Kumada, Govindpur, Mongramorha & Urban Area of Bishrampur and budget will be expense on based of 2% of average profit of previous 3 years as per The Companies Act 2013.

**36.3.8: Project Cost and EMP Cost:** The capital cost of the project is Rs. 250 crores. Capital cost for environmental protection measures is proposed as Rs. 201.91 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 94.11 Lakhs. The employment generation from the proposed project is 358 persons.

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

S. No.	Description of item	Existing (In Lakhs)		Proposed (In Lakhs)	
		Capital Cost	Recurring Cost	Capital Cost	Recurring Cost
(i)	Air pollution control	-	-	30.00	41.75
(ii)	Water pollution control	-	-	21.70	2.87
(iii)	Noise pollution Management	-	-	1.0	1.0
(iv)	Environment monitoring and Management	-	-	60.75	15.43
(v)	Reclamation	-	-	0.00	0.20
(vi)	Occupational Health	-	-	30.74	8.63
(vii)	Green Belt (Ha) & Plantation Development	-	-	54.12	12.18
(viii)	Others (Expert advice, other studies, interest, overheads, depreciation, energy, R&M, etc.)	-	-	3.60	12.05
	<b>Total</b>			<b>201.91</b>	<b>94.11</b>

**36.3.9: Details of Solid and Hazardous Waste:**

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1	Sludge	from STP	1.6	Use as manure in greenbelt & plantation	Truck
2	Domestic Solid Waste	Canteen	11.8	<ul style="list-style-type: none"> <li>Waste will be segregated,</li> <li>dry recyclable waste will be sold to recycling vendors</li> <li>wet organic waste shall be composted and used as manure.</li> </ul>	Truck
3	Plastic waste	Packaging waste	1.2	Given to recycler	Truck
4	E-waste	Administration building	0.01	Given to e-waste dealer	Truck
5	Lead acid Batteries	Vehicles, UPS, machines & others	0.5	Buy back by supplier	Truck
6	Bio-medical waste	First aid centre	0.05	To authorised management agency	Truck

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
7	Hazardous wastes: Used oil/ spent oil	Machines, engines, transformers, DG maintenance, etc.	2.5	Will be handed over to authorized CPCB/ SPCB authorized recycling vendors.	Truck
8	Other wastes: Redundant machinery & equipment	Mines	40	will be sold to recycler	Truck
9	Settled Silt and sludge	Settling pond	Variable	Will be periodically removed and disposed in the designated dump area within the UG facility area.	Truck
10	Stony waste	Driving of inclines	13,392	Stored in 0.2 ha dump area. Reused, to the extent possible, for levelling, construction of roads, raising plinths and constructing platforms around incline mouth, shaft, etc.	Truck
11	Topsoil	Disturbed area in surface Facility Area	7300	100% of the topsoil will be simultaneously reused in the proposed greenbelt/ plantation area of 13.53 hectare, hence, no topsoil storage area is proposed.	Truck

**36.3.10: Power Requirement and details of diversion of Hi-tension/ Transmission line:**

The power requirement for the said project is 5 MVA and the same will be sourced from the nearest sub-station of CGPCL at Bisrampur sub-station connected to the local sub-station. Back up DG set 2X500 KVA is also proposed. PP submitted that no electricity line is proposed to be diverted.

**36.3.11: Plantation:** Proposed greenbelt will be developed in 13.53 ha which is about 84.35% of facility area and 1.67 % of the total ML area. A 150 m wide greenbelt around facility towards habitation and forest area, consisting of at least 3 tiers around underground facility area 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. Total no. of 33,825 saplings will be planted and nurtured in 13.53 hectares in 2 years. In addition to this plantation/ grassing shall be carried out on slope of waste dump.

**36.3.12: Rehabilitation & Resettlement issues:** The mining block falls within the revenue land of 5 villages: Rai, Kumda, Laxmanpur, Datima, and Khursura. Habitations of the first four villages are located within the proposed Mining Lease (ML) area, while Khursura has no habitation within the ML. No displacement of houses is proposed, therefore, no resettlement will be involved in the said project.

**36.3.13: 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.

**36.3.14: Undertaking/ Affidavit:** PP vide an affidavit submitted the following:

The Datima Underground Coal Mine project with production capacity of 0.36 million tonnes per annum (MTPA) at villages Rai in Taluka Bhatgaon, villages Datima & Kharsura in Taluka Surajpur, villages Kumda & Laxmanpur in Taluka Latori, District Surajpur,

Chhattisgarh is allotted to Shree Cement Ltd. by Ministry of Coal vide vesting order no.: NA-104/12/2023-NA dated 08.06.2023.

There is no construction/mining done at the site, as it is proposed Greenfield mining project applied for approval of EC.

There is no litigation is pending on the project or land either at Hon'ble NGT or any other court of Law.

The total mining lease area of Datima Underground Coal Mine project is 807.91 ha, which includes 245.83 Ha of forest land and 562.08 Ha of Govt. and Private Land. No Govt. land proposed to be acquired for the operation of the aforesaid mine project. Although 245.83 hectares forest land is falling within the lease area, but there will not be any disturbance to forest land for project operations. However, a forest diversion proposal has been submitted via the Parivesh portal under application number FP/CG/MIN/QRY/456133/2023, which is at final stage of stage 1 FC approval.

Since this is a proposed Greenfield underground mining project, and only 16.04 ha land shall be required for development & construction of surface Infrastructure facilities. Out of this, 9.67 ha of land has been purchased and is in possession of the company. Remaining 6.37 ha is under the process of acquisition. The land acquisition has been carried out through direct negotiations with landowners on a willing buyer-willing seller basis, at mutually agreed terms and conditions. There is no R & R issue in the acquired land and proposed to be acquired land.

There is no difference in the documents submitted i.e., Common Application Form, Form-1(Form-1 Part A, B & C on Parivesh 2.0), EIA/EMP report and presentation being made to the EAC.

The reason for submitting the project at MoEF&CC is that the proposed project falls under "Category A" as per EIA notification 2006 as amended thereof. The proposal is being submitted for the Grant of Environment Clearance from MoEF&CC.

Further PP submitted a declaration, undertaking that the information contained in this undertaking is true and correct to the best of my knowledge and belief. Any misrepresentation or suppression of facts shall make me liable for legal consequences under applicable laws.

Further, PP also submitted an undertaking wherein it is mentioned that,

1. The Shree Cement Limited is proposing "Datima Underground Coal Mining" for production capacity of 0.36 million TPA (Normative) in the Mining Lease Area of 807.91 ha. at villages Rai in Taluka Bhatgaon, villages Datima & Kharsura in Taluka Surajpur, villages Kumda & Laxmanpur in Taluka Latori, District Surajpur, Chhattisgarh.
2. That there is no construction done at the site till date.
3. There is no litigation pending against the project and/or any direction/ order passed by any Court of Law against the project and/or land in which the project is proposed and the unit has not received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts and that for any such litigation whatsoever, the sole responsibilities will be borne by the company.
4. There is no violation with respect to Environment (Protection) Act 1986 and rules thereunder.

**36.3.15: Written submission:** PP submitted the revised public hearing action plan, as per the suggestion of the committee and the CGWA NoC obtained for the said project vide letter no. NOC/MIN/CG/2025/8187 dated 20.11.2025.

**Deliberations and Observation of the Committee:**

**36.3.16: The Committee noted the following:**

1. The instant proposal is for grant of environment clearance to M/s. Shree Cement Limited for Datima Underground Coal Mine (area: 807.91 Ha having production capacity 0.36 MTPA) located at villages: Rai, Datima, Kharsura, Kumda and Laxmanpur; District: Surajpur; State: Chhattisgarh.
2. The instant proposal is a Greenfield underground mining project.
3. 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.
4. Project does not fall in the Critically Polluted Area/ Severely Polluted Area, as per CEPI Assessment 2018.
5. The project involves total 245.83 Ha of forestland. Application for the same has been submitted vide Proposal No. FP/CG/MIN/QRY/456133/2023 dated 20.12.2023 by the PP and Stage-I Forest Clearance is yet to be obtained. There is no forestland broken till date and the said project does not involves violation of Van (Sanrakshan Eevam Samvardhan) Adhiniyam, 1980. Member Secretary apprised the EAC that, as per OM dated 09/09/2011, after the EAC has recommended the project for environmental clearance, it would be processed on file for obtaining decision of the Competent Authority for grant of environmental clearance. In the cases where the Competent Authority has approved the grant of environmental clearance, the proponent will be informed of the same and a time limit of 12 months will be given to submit the requisite Stage – I forestry clearance. On receipt of the same, formal EC letter will be issued by the Ministry.
6. The project is not located within 10 km of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ tiger corridor/ elephant reserve/ elephant corridor etc. As per the certification issued by the Principal Chief Conservator of Forests (Wildlife and Biodiversity Conservation) vide letter no. 3583 dated 13.08.2024, the distance from the proposed mine lease boundary to Tamor Pingla Wildlife Sanctuary is 28.352 km. There is presence of Schedule – I species in the study area of the said project. The Wildlife Conservation Plan for Schedule-I species in the core and buffer zones has been approved vide order dated 18.07.2025 by the Chief Conservator of Forest (Wildlife and Biodiversity Conservation) cum Chief Wildlife Protector, Chhattisgarh. A separate budget of Rs. 173.008 lakh has been provisioned for implementation over a period of 10 years.
7. Committee deliberated on the sensitive receptors present within the ML area and within the buffer zone. Committee observed that there are several schools present within the study area and 4 nos of schools are present within the ML area itself. Committee opined that thick plantation shall be carried out around these schools with the native species within 2 years from the date of grant of EC by planting saplings of not less than 4 feet height. Apart from this, PP shall install solar lights and make the provision for drinking water and the sanitary water in the said schools.
8. The ToR for the said project was granted vide letter dated 29.01.2024 and ToR amendment was granted vide letter dated 09.09.2024. The amendment was sought w.r.t to a typographical error in the block allotment area by the MoC.
9. The Mining Plan and Mine Closure Plan approved by Ministry of Coal vide letter no. Datima Coal Mine CT/APP00267/2023, dated 08.04.2024.

10. Method of mining to be adopted shall be fully mechanized underground mining using bord and pillar method with deployment of continuous miners.
11. Total geological reserve reported in the mine lease area are 13.3 MT and the total mineable reserves are 8.435 MT out of which the extractable reserves are 4.208 MT. Percentage of extraction is 31.64%. The average grade of coal is G7. Life of mine is 15 years.
12. Topsoil removed from UG facility area will be simultaneously reutilized in plantation & greenbelt development and the waste generated during the construction of inclines and shaft will be used for various purposes such as raising plinth, construction of a structures, stone pitching of settling pond, etc. to the extent possible. At the end of the life of mine, the stone waste will be reutilized for sealing off of the entries and levelling of the area.
13. Committee deliberated on the method of transportation of coal proposed for the said project and observed that, the coal produced from CM will be transferred to the main conveyor through the shuttle cars. The surface transport of coal will be done by Coal Tippers to the pit head stockpile and stock yards. From mine to consumers the coal will be transported by road cum rail mode. Committee opined that plantation with the native species (of height not less than 4 feet) shall be done on both the side of the entire transportation road. Further PP shall also explore to deploy EV dumpers for transportation of coal. Also, PP 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.
14. Committee opined that PP should make a watershed development plan including the gap plantation in the forest and should implement with the help of forest department within 4 years after obtaining the EC.
15. The baseline data for the said project has been carried out during October – December 2023. The environmental parameters are observed to be within the prescribed norms. Committee opined that PP shall install at least 2 nos of CAAQMS in the said mines, one each in the core zone and the buffer zone.
16. The water requirement for the said project is observed to be 362 KLD (Industrial 326 KLD & potable 36 KLD) and the same will be sourced from ground water. NoC for the same has been obtained vide letter no. NOC/MIN/CG/2025/8187 dated 20.11.2025. Committee further observed that no water body is proposed to be diverted for the same.
17. Committee deliberated on the public hearing conducted for the said project. The same was conducted on 17.06.2025 and approx. 300 persons attended that. Total 163 nos of written representation were received from within and outside the district. The PH action plan submitted also included the CSR activities and budget for wildlife conservation plan. Committee found the PH action plan to be inadequate and sought a rectified PH action plan and PP submitted the same. The total amount proposed to be spent is Rs. 1142.257 Lakhs. Committee opined that the same shall be utilized in the time bound manner.
18. Committee deliberated on the EMP budget submitted by the PP and observed that the capital cost allotted is Rs. 201.91 Lakhs and recurring cost allotted is Rs. 94.11 Lakh/ Annum. Committee opined that the same shall be used in a time bound manner.
19. The power requirement for the said project is 5 MVA and the same will be sourced

from the nearest sub-station of CGPCL at Bisrampur sub-station connected to the local sub-station. Back up DG set 2X500 KVA is also proposed. PP submitted that no electricity line is proposed to be diverted.

20. Committee deliberated on the development of greenbelt and observed that, PP has proposed to develop the greenbelt in 13.53 ha which is about 84.35% of facility area and 1.67 % of the total ML area. A 150 m wide greenbelt around facility towards habitation and forest area, consisting of at least 3 tiers around underground facility area will be developed within 3 years from the date of obtaining EC as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species of not less than 4 feet height will be planted with a density of 2500 trees per hectare. Total no. of 33,825 saplings will be planted and nurtured in 13.53 hectares in 2 years. In addition to this plantation/ grassing shall be carried out on slope of waste dump. Committee opined that PP shall also focus on community plantation and shall distribute fruit bearing species to the villagers to plant and nurture the same.
21. The mining block falls within the revenue land of 5 villages: Rai, Kumda, Laxmanpur, Datima, and Khursura. Habitations of the first four villages are located within the proposed Mining Lease (ML) area, while Khursura has no habitation within the ML. Since the proposed project is for underground mine, there is no rehabilitation and resettlement proposed for the said project.
22. The capital cost of the project is Rs. 250 crores.
23. There is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air (P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Evar Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.
24. Committee opined that, as per the provisions of the Ministry's OM dated 14.01.2025 and 08.10.2025, PP should have obtained the comments of the concerned SPCB for seeking the environmental safeguards to be followed for the said project. Committee observed that, despite making application for the same, PP couldn't obtain the comments of SPCB in the prescribed time frame and accordingly the proposal was listed for appraisal for EC. Member secretary informed the Committee that, as per the Ministry's OM dated 25.11.2025, "*in respect of Projects/Activities that have either been accepted or may be accepted on the PARIVESH portal on or before 31.01.2026 for appraisal or further processing for the grant of Environmental Clearance and for which CTE was required prior to 12.11.2024, shall be required to obtain related environmental safeguards from the concerned SPCB/PCC within 30 days from the date of grant of environmental clearance, in accordance with the provisions of paragraph 4E of the OM dated 14.01.2025.*" Committee opined that the PP shall in compliance of the said OM shall obtain the comment of SPCB in this regard within 30 days from the date of grant of EC.
25. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components.
26. The EAC found the written submissions of the project proponent to be satisfactory.

**Recommendations of the Committee:**

**36.3.17:** In view of the foregoing and after the detailed deliberation, the Committee **recommended** the instant proposal for grant of Environment Clearance subject to uploading of written submission on PARIVESH Portal under the provisions of EIA Notification, 2006 subject to the stipulation of following specific conditions and general conditions based on project specific requirements:

**Specific Conditions:**

1. Project proponent shall submit the Stage – I Forest Clearance for diversion of forestland of 245.83 Ha involved in the project prior to grant of Environment Clearance as per MoEF&CC O.M. dated 09/09/2011 and its subsequent amendment.
2. Project proponent shall obtain the comments from the concerned State Pollution Control Board, Chhattisgarh, within 30 days from the date of grant of EC in accordance to the provisions of Ministry's OM dated 14.01.2025, 08.10.2025 and 25.11.2025.
3. As committed, no depillaring under the UG mining area shall be done.
4. Project proponent shall provide facilities such as solar lights, RO plants, provision for sanitary water in the schools present within the ML area. Thick plantation shall be carried out around these schools with the native species within 2 years from the date of grant of EC by planting saplings of not less than 4 feet height.
5. The coal transportation shall be done by tarpaulin covered trucks and plantation with the native species (of height not less than 4 feet) shall be done on both the side of the entire transportation road. Further PP shall also explore the feasibility to deploy EV dumper for transportation of coal. PP 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.
6. Project proponent shall fully compensate for the damage to property, infrastructure, or community assets which may arise due to subsidence, as committed.
7. The budget proposed for PH is Rs. 1142.257 Lakhs. The budget proposed shall be kept in a separate account and audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 5 years from the date of grant of EC. PP shall submit the progress report regarding the implementation of action plan to concerned RO along with the six-monthly compliance report.
8. PP shall implement the protective measure proposed in Environment Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs 209.91 Lakhs (capital cost) and Rs 94.11 Lakhs/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.
9. Project proponent shall deposit the Rs. 173.008 lakh as provisioned for the implementation of wildlife conservation plan with the concerned authority within 1 year from the date of grant of EC and shall ensure the implementation of the WLCP.

Compliance of the same shall be submitted along with the six – monthly compliance report.

10. PP shall pay to farmers of agricultural land if there is any loss due to pollution found by concerned District Commissioner as per extent rules or norms. Suitable measures for enrichment of nitrogen in the soil will be taken up for improving soil fertility and effective steps will be taken to support the farming community in enhancing the production.
11. No waste shall be dumped on the forestland. PP shall use the waste generated during the installation of mine shaft and mine incline in infrastructure development.

## **C. STANDARD CONDITIONS:**

### **1. Statutory Conditions:**

- i. The Environmental Clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project.
- ii. Mining shall be carried out as per the approved Mining Plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant provisions under CMR, 2017 and circulars issued by Directorate General of Mines Safety (DGMS) from time to time.
- iii. Mining activities shall not be carried out in the forestland, until the Stage - II Forestry Clearance is obtained under the relevant provisions of Van (Sanrakshan Evar Samvardhan), Adhiniyam, 1980, for 245.83 Ha of forestland involved in the ML area.
- iv. The project proponent shall obtain prior approval / clearance from the National Board for Wildlife, if applicable.
- v. In case of the presence of Schedule-I species in the study area, the project proponent shall prepare a Conservation Plan & Wildlife Management Plan which shall be approved by the Chief Wildlife Warden. The recommendations of the approved Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of Schedule-I species in the study area).
- vi. The project proponent shall obtain Consent to Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Pollution Control Committee.
- vii. The project proponent shall obtain the necessary permission from the Central Ground Water Authority for groundwater abstraction & usage prior to commencement of mining. The proponent shall also obtain necessary permissions for drawl / usage of surface water, if applicable, prior to commencement of mining.
- viii. Solid/ hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016 and subsequent amendments.

- ix. In case of diversion of water body / road / railway lines / transmission line, approval for the same from competent authority shall be submitted, as applicable.
- x. Permission of power supply to be taken from the concerned authority for meeting power demand of the project site.
- xi. The annual peak production at any given time shall not exceed the limit as prescribed in the EC.
- xii. Validity of EC shall be as per life of the mine as mentioned in EC letter or 30 years, whichever is earlier, as per EIA Notification, 2006 and its amendments therein.
- xiii. In case of change in mining method from UG to OC, prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC) shall be obtained.

## **2. Air Quality Mitigation Measures and Monitoring**

- i. Coal handling points like stockyards / sidings shall be equipped with effective control measures like water sprinkling, fog cannons, wind barriers, vertical greenery systems.
- ii. Effective control measures such as regular water sprinkling/rain gun/ fog cannons /mist sprinkling, etc., shall be installed in critical areas like coal transport roads, loading/unloading and transfer points.
- iii. Transportation of the coal through the existing road passing through any village shall be avoided. In such cases, it is proposed to construct a 'bypass' road, such that the impact of sound, dust and accidents could be appropriately mitigated. Major approach roads shall be black topped / made with concrete and properly maintained.
- iv. Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in coal transportation shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres. The proponent must strive to use electric vehicles / eco-friendly fuel based vehicles as far as possible.
- v. In order to prevent particulates getting airborne and in order to mitigate dust concentrations, proper housekeeping shall be maintained by the project.
- vi. Plantation in core zone and along the coal transportation route shall be completed within 2 years after issue of EC for control of air pollution. Native tree species of not less than 4 feet height shall be selected for plantation.
- vii. It shall be ensured that the ambient air quality parameters shall conform to the norms prescribed by the Central/State Pollution Control Board.
- viii. For ambient air quality monitoring, at least 4 sampling sites shall be established (of which 1 shall be situated in the upwind direction, 1 in core zone and balance 2 shall be located in the buffer zone - in downwind direction and near receptors) for monitoring of pollutants. The frequency of monitoring for core zone shall be as per Coal Mine Standards GSR 742 (E) dated 25.09.2000 and for buffer zone shall be as per NAAQS, 2009. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. The monitoring reports shall be submitted to Regional Office of MoEF&CC and SPCB/CPCB as a part of the six monthly compliance report.
- ix. The project shall install an automatic weather monitoring station in the core zone. At least 2 online ambient air quality monitoring stations (CAAQMS) for monitoring of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub> shall be installed - one in core zone and one in buffer zone, in

consultation with the SPCB. The data from the CAAQMS shall be connected to CPCB server as well as SPCB server. The calibration of CAAQMS installed shall be carried out as per the calibration protocol for CAAQMS system specified by CPCB and records shall be maintained.

### **3. Water Quality Mitigation Measures and Monitoring**

- i. The water pumped out from the mine (seepage water / mine effluent), after treatment, shall be utilized for industrial purpose viz. dust suppression on roads, plantation, and for domestic uses, etc.
- ii. Industrial wastewater from workshop and/or coal handling plant, if any, shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time.
- iii. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic wastewater. The treated water, after conforming to the prescribed norms shall be reused.
- iv. Garland drains (of suitable size, gradient and length) around the critical areas *i.e.* mine shaft and low-lying areas including coal stockyards, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump capacity shall also provide adequate retention period to allow proper settling of silt material of the surface runoff. The garland drains shall be regularly desilted, particularly after monsoon and maintained properly.
- v. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side, stabilized with plantation so as to withstand the peak water pressure preventing any chance of mine inundation.
- vi. In case of diversion / straightening of any river / nallah, the same shall be done only after approval is granted by Water Resources Department / Irrigation Department / approved regulatory agency of the concerned state. Mitigation measures or management plan proposed under EIA/EMP as well as regulatory agencies as a part of the diversion plan shall be duly complied with.
- vii. Project proponent shall provide a rain water-harvesting pond in ML area in the core zone.
- viii. The effluent discharge (mine water, workshop effluent, CHP wastewater (if applicable), STP if applicable) - shall be monitored in terms of the parameters and frequency notified under the Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. The effluent samples must include raw effluent (*i.e.* upstream of treatment facility) as well as treated water (*i.e.* outlet stream from treatment facility). The monitoring reports shall be submitted to Regional Office of MoEF&CC and SPCB/CPCB as a part of the six monthly compliance report.
- ix. Project proponent shall install ground water monitoring piezometers prior to commencement of production in line with NOC issued by CGWA. The water level will be monitored for all piezometers and the record will be shared with the Regional Office (CGWB).

#### **4. Noise Prevention and Monitoring**

- i. Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work zone environment. Operational safety norms for worker safety as prescribed by DGMS for UG coal mines must be adhered to.
- ii. In case of installation of conveyors, DG sets, etc., adequate noise attenuation measures including acoustic barriers must be installed to control noise pollution.
- iii. The noise level monitoring shall be carried out as per the prescribed DGMS guidelines in the core zone to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the RO of MoEF&CC on six-monthly basis.
- iv. Ambient noise levels shall be monitored at strategic locations (at least 4 locations of which 2 to be located within the core zone at coal loading point and workshop respectively and remaining 2 to be located in buffer zones near receptors and along coal transportation route). The monitoring reports shall be submitted to Regional Office of MoEF&CC and SPCB/ CPCB as a part of the six monthly compliance report.

#### **5. Risk and subsidence**

- i. Project proponent shall include adequate provisions w.r.t risk management to ensure safety of personnel engaged in mining operations and work zone environment must be maintained in conformity of relevant DGMS norms.
- ii. Regular monitoring of subsidence movement on the surface over and around the working areas and its impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings shall be continued beyond post closure period as specified in the Mine Plan/Mine Closure Plan Guidelines issued by MoC from time to time. In case of observation of any high rate of subsidence beyond the limit prescribed, appropriate effective mitigation measures shall be taken to avoid loss of life and materials. Cracks should be effectively plugged in with ballast and clay soil/suitable material.
- iii. A separate team for subsidence monitoring and surface mitigation measures shall be created at project level and continuous monitoring & implementation of mitigation measures be carried out.
- iv. Thorough inspection of the mine lease area for any cracks developed at the surface due to mining activities below ground shall be carried out to prevent inrush of water in the mine. Native tree species shall be selected and planted over areas affected by subsidence.

#### **6. Land Reclamation**

- i. Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change (MoEF&CC) and shall be submitted to MoEF&CC/Regional Office (RO).
- ii. Post-mining land be rendered usable as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 31<sup>st</sup> January, 2025 and subsequent amendments. The post closure land form must be safe & stable and should incorporate repurposing activities like renewables, energy efficiency etc. as feasible.

- iii. The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.
- iv. Project proponent shall implementation 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.
- v. Greenbelt shall be developed in 13.53 ha area, i.e. 1.67% of the total ML area and 84.35% of the total disturbed area i.e. 16.04 ha. A 5-10m wide greenbelt, consisting of at least 3 tiers around mine boundary shall be developed as greenbelt and green cover within 3 years from the date of obtaining the EC by planting the saplings of not less than 4 feet height as per CPCB/ MoEF&CC, New Delhi guidelines. Local and Native species shall be planted with a density of 2500 trees per hectare. Total no. of 33,825 saplings shall be planted and nurtured in 13.53 hectares in 2 years. In addition to this plantation/ grassing shall be carried out on slope of waste dump. PP shall also focus on community plantation and shall distribute 50,000 mainly fruit bearing species saplings of not less than 4 feet height to the villagers to plant and nurture the same along with incentive till the life of mine. Along with this, Miyawaki plantation shall be carried out and plantation shall also be carried out in the nearby environmentally sensitive receptors.
- vi. Watershed plan with gap Planation in Forest area shall be made with the help of Forest department and should be implemented accordingly within 4 years after obtaining the EC. Budgetary provision should be submitted accordingly.

## 7. Public Hearing and Human Health Issues:

- i. Implementation of the time bound action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the time bound action plan submitted with budgetary provisions during the public hearing.
- ii. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable. Adequate facility of drinking water, plantation and other social amenities should be provided to established R&R villages.
- iii. The work zone environment shall be maintained as prescribed under Coal Mines Regulations, 2017 & DGMS (complying with provisions regarding illumination, temperature, humidity, dust, noise, etc.)
- iv. The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of The Mines Act, 1952 and rules made thereunder and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as per Clause No. 123, 124 & 125 of Coal Mines Regulations, 2017.
- v. Personnel (including outsourced employees) working in core zone shall wear

protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.

- vi. Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.
- vii. Effective arrangement shall be made to provide and maintain sufficient supply of drinking water at suitable points, for all the persons employed.
- viii. The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z11013/5712014-IA.I1 (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.

## 8. Others:

- i. The project shall comply with the recommendations of the additional studies like Traffic Study, Biodiversity Management Plan, Carbon Footprint Assessment, as applicable.
- ii. In pursuant to the Ministry's OM dated 18/07/2022. PP shall also create awareness among the people working in the ML area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of Ministry's Notification published by the Ministry on 12/08/2021.
- iii. The project shall align its activities towards some SDGs and submit the details in its six-monthly compliance report on routine basis.
- iv. Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.
- v. Post closure monitoring of air quality, water, land & soil etc. shall be carried out by NABL accredited laboratories and analysed with EMP measures at regular interval. A suitable recommendation in this regard, shall be furnished to RO, MoEF&CC for compliance. The data used for analysis shall be obtained from routine environmental monitoring, continuous air / water QMS, etc.
- vi. Third Party Environmental Audit shall be undertaken once in every three years through reputed institutes or scientific agencies.

## 9. Corporate Environment Policy:

- i. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for 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. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions to shareholders/stake-holders
- ii. A separate Environmental Cell both at the project and company head quarter level, with adequate qualified personnel shall be set up under the control of senior executive, who will directly report to the Head of the organization.
- iii. Action plan for implementing EMP and environmental conditions along with

responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

#### **10. Miscellaneous:**

- i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days of receipt of EC and in addition, this shall also be displayed in the project proponent's website permanently.
- ii. 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 has to display the same for 30 days from the date of receipt.
- iii. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- iv. The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at Parivesh portal.
- v. The monitoring data w.r.t environmental parameters shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-1A.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
- vi. The project proponent shall submit the Environmental Statement for each financial year in Form-V to the concerned State Pollution Control Board, as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- vii. The project authorities shall inform to the Regional Office of the MoEFCC regarding commencement of mining operations.
- viii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- ix. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- x. No further expansion or modifications in the mine shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- xi. 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.
- xii. The Ministry may revoke or suspend the clearance, if implementation of any of the

above conditions is not satisfactory.

- xiii. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company, in a time bound manner, shall implement these conditions.
- xiv. The Regional Office of this Ministry 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
- xv. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

**Agenda Item No. 36.4:**

**36.4:** Rampur Batura Opencast Project (increase in production capacity from 2.0 MTPA to 6.0 MTPA with increase in mine lease area from 942.873 ha to 1806.053 ha), **by M/s South Eastern Coalfields Limited**, located in Villages: Rampur, Beliya, Antariya, Bichhiya, Khairbana of Shahdol district and Khanda, Kodaili of **Anuppur district, Madhya Pradesh – Prescribing of Terms of Reference (ToR) – reg.**

**[Online Proposal No. IA/MP/CMIN/553294/2025; Consultant: CMPDI - NABET/EIA/25-28/RA 0412 valid up to 08.04.2028]**

**36.4.1:** M/s South Eastern Coalfields Limited has made an online application vide proposal no. IA/MP/CMIN/553294/2025; dated 09.10.2025 along with the application in prescribed format (Form-I), copy of pre-feasibility report, Mine Plan and Mine Closure Plan 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. The project does not attract general conditions of EIA Notification, 2006.

Rampur Batura Opencast Project is an expansion of the Batura Opencast coal mining project (EC vide F. No. J-11015/65/2016-IA.II(M) dated 01.02.2021) proposed for increase in ML area from 942.873 ha to 1806.053 ha with increase in production capacity from 2.0 MTPA to 6.0 MTPA, and is located in villages: Rampur, Beliya, Antariya, Bichhiya, Khairbana of Shahdol district and Khanda, Kodaili of Anuppur district, Madhya Pradesh.

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

**36.4.2: Previous approvals in chronological order:**

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-11015/65/2016- IA. II (M)	First EC	2	942.873	01.02.2021	Being implemented
2.	J-11015/65/2016- IA. II (M)	EC Amendment	2	942.873	06.11.2025	

W.r.t the previous approvals, CTO renewal obtained for Batura Opencast coal mine project for 02 MTPA capacity vide MPPCB letter no. AW-62405 dated 25.06.2025 with validity up to 31.08.2026. PP submitted the actual production details of the concerned mine. Details of the same are as follows:

Year	EC/ CTO sanctioned capacity (MTPA)	Actual production (MTPA)	Excess production beyond the EC/CTO sanctioned capacity	Remarks
2022-23	2	0.051	0	Mines started its coal production since 17.03.2023
2023-24	2	1.216	0	
2024-25	2	1.701	0	
2025-26 (till 31.10.2025)	2.0	1.020	0	

**36.4.3: Environmental Site Settings:** The mine lease area is covered under Survey of India Topo sheet no F44D12/64E12 and is bounded by the geographical coordinates ranging from latitude 23°12'40" to 23°14'10" N and Longitude 81°40'20" to 81°43'20" E. 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 81.494 ha of forest land, out of which Stage-II forest clearance has been obtained for 76.84 ha forest land vide F.No. 8-33/2015-FC dated 16.07.2019 and for 4.654 Ha of forestland application for Stage – I forest clearance vide proposal no. FP/MP/MIN/18959/2016 on 25.08.2022 has been submitted. PP submitted that the only 1.1 Ha forest land out of 76.84 Ha FL involved in existing EC has been broken during mining activities, after stage 2 FC and other necessary approvals. PP submitted that there is no violation of Van (Sanrakshan Eevam Samvardhan) Adhiniyam, 1980.

#### Nature of land involved:

Nature of land involved	Existing area (Ha)	Additional area proposed (Ha)	Total area after expansion (Ha)
Non-Forest Land	866.033	858.526	1724.559
Forest Land	76.84	4.654	81.494
<b>Total</b>	<b>942.873</b>	<b>863.18</b>	<b>1806.053</b>

**Protected Area:** The ML area 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.

Further PP submitted that there is presences of Schedule – I species (namely: Python, Rat snake, Sloth Bear, Jackal etc). A Wildlife Conservation Plan (WCP) is yet to be prepared.

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

Notification no and Date	Area in ha
S.O. no. 228, Date: 14.01.2011,	935.461
S.O. no. 1811(E), Date: 30.03.2015	128.658
S.O. no. 194 (E), Date: 13.07.2015	734.917
Applied for notification under CBA to MOC, Vide SECL Letter no. 585 dated 30.05.2025.	7.017
<b>Total Area</b>	<b>1806.053</b>

#### Other Sensitive Receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)

Project site proximity to sensitive area		Distance in km (within 5 km from the ML area)		
		Particulars	Distance	Direction
i. Habitation		Rampur Village	Within the mine boundary	-----
		Beliya Village	Within the mine boundary	-----
		Antariya Village	Within the mine boundary	-----
		Bichhiya Village	Within the mine boundary	-----
		Khairbana Village	Within the mine boundary	-----
		Khanda Village	Within the mine boundary	-----
		Kodaili Village	0.5	SW
		<b>Note:</b> There are 91 nos. villages in buffer zone of study area.		
ii. School		Particulars	Distance	Direction
		Govt. primary school (Beliya Village)	Within the mine boundary	-----
		Govt. primary school (Kudara tola Village)	Within the mine boundary	-----
		Govt. primary school Girls (Bazar tola Village)	Within the mine boundary	-----
		Govt. primary school (Ambedkar Nagar Village)	Within the mine boundary	-----
		Govt. primary school (Rampur Village)	Within the mine boundary	-----
		Middle school (Rampur Village)	Within the mine boundary	-----
		Higher Secondary School (Rampur Village)	Within the mine boundary	-----
		UEGS (Geedha Tola)	Within the mine boundary	-----
		Primary school (Bhulan Tola)	Within the mine boundary	-----
		Primary School (Khairwana)	Within the mine boundary	-----
		Primary school (Tagra tola Village)	2 km	East
		Higher Secondary School (Rampur Village)	1 km	South
		Govt Primary School (Padariya Village)	3 km	East
		Govt primary School (Harridih Village)	2 km	North
		Govt primary School (Bairiha Village)	1 km	East
		Govt primary School (Majholi Village)	3.5 km	East
		Govt primary School (Jogibandh Village)	2.5 km	North
		Govt primary School (Khamroundh Village)	3.5 km	Northwest
		Govt primary School (Tilmaniha tola, Batura Village)	3 km	West
		Govt primary School (Jhiriya Village)	4 km	East
		Govt primary School (Batura Village)	3.5 km	West
		Govt Middle school (Padariya Village)	3.7 km	East
		Govt Middle school (Khamroundh Village)	3.0 km	Northwest
		Govt High school (Khamroundh Village)	4.0 km	Northwest
		Govt High school (Majholi Village)	3.0 km	East
		Govt. HS Khamroundh	2.06 km	Northwest
		Govt Primary School Tilmaniha TOLA, Batura	2.89 km	East
		Middle School Chaka	5.14 km	Northwest
		UEGS Chachang Tola	3.81 km	Southwest
		Primary school (Tagra tola Village)	2 km	East
		Higher Secondary School (Rampur Village)	1 km	South
		Govt Primary School (Padariya Village)	3 km	East
		Govt primary School (Harridih Village)	2 km	North
		Govt primary School (Bairiha Village)	1 km	East
		Govt primary School (Majholi Village)	3.5 km	East
		Govt primary School (Jogibandh Village)	2.5 km	North
		Govt primary School (Khamroundh Village)	3.5 km	Northwest
		Govt primary School (Tilmaniha tola, Batura Village)	3 km	West
		Govt primary School (Jhiriya Village)	4 km	East
		Govt primary School (Batura Village)	3.5 km	West

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
i. Schools	Govt Middle school (Padariya Village)	3.7 km	East
	Govt Middle school (Khamroundh Village)	3.0 km	Northwest
	Govt High school (Khamroundh Village)	4.0 km	Northwest
	Govt High school (Majhouli Village)	3.0 km	East
	Govt. HS Khamroundh	2.06 km	Northwest
	Middle School Bargava	6.92 km	East
	Govt Primary School Tilmaniha TOLA, Batura	2.89 km	East
	Middle School Chaka	5.14 km	Northwest
	UEGS Chachang Tola	3.81 km	Southwest
	Middle School Khada	1.4 km	South
	Primary School Barbashpur	4.96 km	Southeast
	Middle School Girwa	2.59 km	North
	Govt. HSS Chachai	4.72 km	Southwest
	Middle School Padariya	4.58 km	East
	Govt. HS Majhouli	3.75 km	Northeast
	Middle School Bholgarh	4.99 km	Southeast
	Primary School Mahdevara Tola	1.75 km	Northeast
	Middle School Batura	3.78 km	Southwest
	Primary School Bakeli	2.75 km	Northwest
	UEGS Karahiwah	7.51 km	Southwest
	Primary School Jarwahana Tola	0.16 km	Northwest
	Primary School Dogariya Tola	4.92 km	Northeast
	Govt. HSS Khanda	1.4 km	South
	Middle School Batura	3.78 km	Southwest
	Primary School Bakeli	2.75 km	Northwest
	Primary School Jarwahana Tola	0.16 km	Northwest
	Primary School Dogariya Tola	4.92 km	Northeast
	Govt. HSS Khanda	1.4 km	South
	Primary School Dogariya Tola	4.92 km	Northeast
	Govt. HSS Khanda	1.4 km	South
There are 154 nos. of school within mine lease area and 10 km buffer zone.			
ii. River/ Waterbody	Particulars	Distance	Direction
	Katna nallah	Within the mine boundary	South
	Jamuniya Nallah.	Within the mine boundary	West
	Son River (HFL- 472.06 m)	2 km- 3 km	Southwest
iv. Forest	Particulars	Distance	Direction
	Bairih- PF	Within and adjacent to mine boundary	East
	Rampur PF	02-05 km	Southeast
	Haridini-PF	03 km	North
	Mauhari-RF	05 km	Southeast
	Majhauri PF	05 km	East
v. Archaeological Survey of India (ASI) protected site	No		
vi. Any other hospitals	Particulars	Distance	Direction
	Primary Health Centre Rampur	Within the mine boundary	---
	Health Centre Khanda	Within the mine boundary	---
	Health Centre Khairbana	Within the mine boundary	---
	Health Centre Atariya	Within the mine boundary	---
	Primary Health Centre Bakeli	3.9 km	Southwest
	Health Centre Girwa	3.84 km	Northeast

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	Health Centre khamraudh	4.23 km	Northwest
	Health Centre Tediya Tola	8.7 km	Northwest
	Health Centre Manpur	4.69 km	Southwest
Note: There are 31 nos. of primary health centers within 10 km buffer zone of study area.			
vi. Any other	No		

**No diversions have been done previously. Following diversions are proposed for the expansion project:**

- I. **Nallah Diversion-** Katna Nallah-Segment proposed for diversion 3.3 km for distance up to 50 m. The mentioned diversion is a part of existing EC. As per EC, consultation with State Water Resource Department was made and NOC was obtained vide letter no 7-1126 का 15 dated 26.03.2021. At present, the nallah has not been diverted.
- II. **Jamuniya Nallah** -Segment proposed for diversion 5.275 km for distance upto 50 m.
- III. **Cutting of Road-** Cutting of SH 78 passing through Khanda, Rampur, and Beliya village is proposed; the road is falling in mine cutting area. The length proposed for cutting is 4.727 km (The diversion length provided is indicative and subject to detailed technical assessment and statutory approvals). After cutting of the road, an alternate branch road exists (from Batura to Girwa Village), and the traffic and villagers' movement will be diverted through this alternate road.
- IV. **Transmission Line-** Diversion of Existing 132 kV Line of MPPKBBCL in Mine Boundary is proposed of length 2.895 km (The diversion length provided is indicative and subject to detailed technical assessment and statutory approvals).

**36.4.4: Mining Plan and Mine Closure Plan:** The mining plan & mine closure plan for the project was approved by board of Directors for (capacity 6.0 MTPA, Mine lease Area 1806.053 Ha) in 360<sup>th</sup> SECL Board held on 06.08.2025 vide resolution letter no. SECL/BSP/CAD/360<sup>th</sup> BM EXT/25-26/930 dated 22.08.2025.

- i. Method of mining proposed to be carried out is opencast mining using combined mining system deploying shovel dumper combination and Surface Miner.
- ii. Total geological reserve reported in the mine lease/block area is 73.534 MT with balance mineable reserve as on 01.04.2025 is 62.53 MT. Extracted so far 2.967 MT. Percent of extraction is 89 %.
- iii. There are 5 nos. seams workable (III, L1, II, L2, and I). Gradient of the seam varies from 1° to 5°. Average Grade of coal is G 6. Stripping ratio 9.66 cum/tonne.
- iv. Life of mine is 11 years as on 01.04.2025.
- v. The existing and proposed final dump configuration are as follows

#### Final Dump details

Dump No.	Area (Ha)	Height	Quantity (Mcum)	Type (Internal/ External)
1.	31.07	60 m	7.89	External
2.	1269.672	60 m	613.569	Internal

- vi. Details of topsoil dump: Quantity of topsoil to be generated is 4.611 Mcum, which will be stored separately over an area of 2.61 Ha. Top soil will be utilized for reclamation of external & internal dump & greenbelt development and other land for vegetation. No. of topsoil dump is 01, which is temporary dump.

vii. Details of land use pattern:

a. Pre-mining land use pattern:

S. No.	Land Use	Within MLArea (Ha)	Outside MLArea (Ha)	Total (Ha)
1	Agricultural land	1380.331	0	1380.331
2	Forest Land	81.494	0	81.494
3	Waste Land	61.68	0	61.68
4	Grazing Land	3.03	0	3.03
5	Surface water bodies	39.52	0	39.52
6	Settlements	50	0	50
7	Other (govt. land)	189.998		189.998
<b>Total</b>		<b>1806.053</b>	<b>0</b>	<b>1806.053</b>

b. Post-mining land use pattern:

S. No.	Particulars	Area in ha	Reclaimed	Un-Reclaimed
			Area (Ha)	Area (Ha)
1	Excavation/ quarry area			
	(a) Backfilled Areas	1269.672	1269.672	0
	(b) Excavated Void	267.31	0	267.31
2	External Dump	31.07	31.07	0
3	Green Belt and Safety Zone	149.429	0	149.429*
4	Mine infrastructures including road, magazine, CHP/ Silo, colony and land for Nala diversion	88.572	41.972	46.6
<b>Total (in Ha.)</b>		<b>1806.053</b>	<b>1342.714</b>	<b>463.339</b>
*26.6 ha will be developed as green belt of 7.5m width and undisturbed land will be used for gap plantation/ diverted nallah/ HT line and other gainful utilization.				

viii. Details of transportation:

a) In-Pit:

Description	Mode	Lead
<b>Existing</b>		
From coal face to coal stockyard	Through rear dumpers and trucks –Road	2 km within ML area
<b>Proposed</b>		
From coal face to coal yard	Through rear dumpers and trucks –Road	0.5 km -2.9 km within ML area
From coal face to in pit belt coal receiving station	Through rear dumpers and trucks –Road	0 km -3.0 km within ML area

b) Surface to siding:

Description	Mode	Lead
<b>Existing</b>		
From coal stock yard to Burhar Railway siding	Through tippers– Road	27 km outside ML area
<b>Proposed</b>		
From TRS to Silo	Through Belt conveyor	6 km within ML area

c) Siding/ coal stockyard to Consumer

Description	Mode	Capacity
<b>Existing</b>		
Siding to Wagon	Pay loader	
<b>Proposed</b>		
From coal stockyard to consumers	Tarpaulin covered trucks	2 MT
By Rapid loading system to railway wagons	Through silo (FMC)	4 MT

- d) Quantity being transported by rail/ road: in FY 2024-25 – By Rail 0.483 MT and Road – 1.292 MT. Proposed dispatch by rail 4 MTPA and Road 2 MTPA
- e) Changes proposed in future in the method of mining: Proposed mode of coal transportation after commissioning of CHP silo is as follows. The CHP silo will be commissioned by 31.10.2027 and 31.12.2028 respectively.

Mode	Proposed quantity dispatched (MT)	Maximum distance to consumers (km)
Rail	4.0	1200
Road	2.0	500*

ix. **Details of reclamation:** Reclamation shall be done covering an area of 1492.143 ha at the end of mining. This will include reclaimed external OB dump of 31.07 Ha, internal dumps of 1269.672 Ha and greenbelt including safety zone of 26.6 Ha. Density of plantation shall be 2500 nos. of trees per ha. Apart from this, a void of 267.31 Ha will be converted into water body with a depth of 80 m.

**36.4.5: Baseline Data:** Baseline Data collected for period pre monsoon season (April 2025 to June 2025).

Period	Baseline data collected for the period April 2025 to June 2025 (Pre Monsoon season)
AAQ parameters at 09 Locations (min and max)	<p><b>Core Zone</b>  PM<sub>10</sub>- 160 µg/m<sup>3</sup> to 245 µg/m<sup>3</sup>  PM<sub>2.5</sub>- 46 µg/m<sup>3</sup> to 63 µg/m<sup>3</sup>  SO<sub>2</sub>- 18 µg/m<sup>3</sup> to 27 µg/m<sup>3</sup>  NOx – 25 µg/m<sup>3</sup> to 33 µg/m<sup>3</sup></p> <p><b>Buffer Zone</b>  PM<sub>10</sub>- 50 µg/m<sup>3</sup> to 93 µg/m<sup>3</sup>  PM<sub>2.5</sub>- 26 µg/m<sup>3</sup> to 59 µg/m<sup>3</sup>  SO<sub>2</sub>- 13 µg/m<sup>3</sup> to 24 µg/m<sup>3</sup>  NOx – 18 µg/m<sup>3</sup> to 32 µg/m<sup>3</sup></p>
Noise levels Leq at 09 Locations (min and max) (Day and Night)	<p><b>Industrial zone:</b>  52.7 to 64.1 dB(A) for the daytime and 43.1 to 57 dB(A) for the Night time.</p> <p><b>Residential zone:</b>  39.8 to 52.5 dB(A) for the daytime and 30.1 to 43.9 dB(A) for the Night time.</p>
Ground water quality at 08 locations	<p><b>Ground water quality at 08 locations</b></p> <p><b>Core zone</b>  pH: 7.12 to 7.24, Total Hardness:308 to 350 mg/l, Chlorides: 117.46 to 127.96 mg/l, TDS: 558 to 617 mg/l, Heavy metals (As) &lt; 0.005 mg/l, Heavy metals (Se) &lt; 0.005 mg/l</p> <p><b>Buffer zone</b>  pH: 7.15 to 7.55, Total Hardness:54 to 298 mg/l, Chlorides: 24.99 to 88.97 mg/l, TDS: 97 to 468 mg/l, Heavy metals (As) &lt; 0.005 mg/l, Heavy metals (Se) &lt; 0.005 mg/l</p>
Surface water quality at 08 Locations	<p><b>Surface Water monitoring was done at 08 locations:</b></p> <p><b>Core zone</b>  pH: 6.82 to 7.81, DO: 6.2 to 7.8 mg/l, BOD :2.5 to 3.73 mg/l, Heavy metals (As) &lt; 0.005 mg/l</p> <p><b>Buffer zone</b>  pH: 6.85 to 7.54, DO: 6.1 to 7.5 mg/l, BOD :2.1 to 3.1, mg/l, Heavy metals (As) &lt; 0.005 mg/l</p>
Traffic assessment study findings	Traffic study will be conducted and submitted during the submission of Final EIA/EMP.

Flora and fauna	Flora & Fauna Study was conducted. There are Schedule-I species in the study area like Python, Rat snake, Sloth Bear, Jackal etc. are found in study area. The Wildlife Conservation Plan (WLCP) is proposed to be prepared through reputed institute.
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**36.4.6: Details of Water Requirement:** PP submitted that the total water requirement for the said project is 1970 KLD (1270 KLD for industrial water requirement and 700 KLD for proposed residential colony). Source of water shall be Mine sump water for which Ground water NoC for the same has been obtained by the PP for Batura Opencast coal mine project vide letter no. CGWA/NOC/MIN/REN/1/2025/11632 dated 16.05.2025 by CGWA, New Delhi, with validity up to 27.04.2026.

PP submitted that, Katna nallah and Jamuniya nallah are flowing through the mine lease area from Southeast direction and Northwest of proposed boundary respectively, which are proposed to be diverted. The expected length of diversion is proposed to be 3.3 km and 5.275 km, respectively.

**36.4.7: Details of Power Requirement and diversion of High-Tension/ Transmission Line:** The power requirement for the said project has been estimated to be 5 MW. The electricity requirement will be met from MPPKBBCL. Further, a transmission line of 132 KVA is proposed to be diverted and the approximate length of diversion is 2.895 km.

**36.4.8: Details of Solid and Hazardous Waste Generation:** The details of solid and hazardous waste estimated to be generated along with its mode of treatment/disposal is furnished as below:

S. No.	Type of Waste	Source	Quantity (For FY 2024-25)	Mode of Treatment	Disposal
1.	Solid waste (domestic waste)	Colony	500 TPA	In-situ & through Municipality	Door to door collection segregate further processing and land fill
2.	Used Oils	HEMM/ Works	100 KL/year	Through authorized recyclers	Handed over to CPCB/ SPCB authorized recycler/TSDF
	Waste Oil		5 T/year		
	Oil & grease Skimming		01 KL/ Year		

**36.4.9: Plantation:** In addition to reclamation area, afforestation shall be done covering an area of 1492.143 ha at the end of mining. This will include reclaimed external OB dump of 31.07 Ha, internal dumps of 1269.672 Ha and greenbelt including safety zone of 26.6 Ha. Density of plantation shall be 2500 nos. of trees per ha.

**36.4.10: Rehabilitation & Resettlement Plan:** The rehabilitation and resettlement of the project affected families/ persons is being governed as per the Right to Fair compensation and Transparency in Land Acquisition and Rehabilitation and resettlement Act, 2013. Rehabilitation and resettlement of project affected families have to be carried out as per this Act.

Seven villages viz. Rampur, Belia, Khanda, Ataria, Khairbana, Bichhia & Kodaili are falling under Rampur Batura Opencast project. About 1500 nos. of total house are falling under EC boundary and about 3000 PAPs are to be rehabilitated or compensated in lieu of housing plot. Out of which 51 PAPs are already paid in lieu of housing plots. Out of rest PAPs, about 2800 PAPs are also opting for monetary compensation in lieu of housing plot. Rest about 149 PAPs opting for housing plots. At present, 18.137 Ha land for R&R site finalised by State authority, out of which 10 Ha of land of village Amlai, Tehsil- Jaitpur already been handed over to SECL for development of R&R site. For architectural design and approval of estimate

is under process. Remaining 8.137 Ha of land for R&R site identified at village- Girwa, Tehsil- Jaitpur is yet to be handed over by State Authority to SECL. Total fund allocated for R&R is Rs. 473.94 Crs.

**36.4.11: Project Cost:** The total cost of the project is Rs. 2020.61 Crs.

**36.4.12: Legal Issues/ Violation:** There is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Van (Sanrakshan Eevam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act.

About 97 nos. of Civil cases related to dispute between parties regarding land compensation, land entitlement etc. in acquired land are pending. These cases are distributed across various courts, including 8 cases in the Madhya Pradesh High Court Jabalpur, 2 cases in Chhattisgarh High Court, Bilaspur, 82 Cases in Civil Court Burhar and 5 cases in Collector and SDM Court Shahdol.

**36.4.13: Written Submissions:** During the meeting PP submitted the following information/documents:

**1. Maps showing baseline data stations over topo sheet.**

Maps showing baseline data stations over topo sheet are submitted.

**2. Proposed mode-wise dispatch after commissioning of CHP Silo:**

Proposed mode of coal transportation after commissioning of CHP silo:

Mode	Proposed quantity dispatched (MT)	Maximum distance to consumers (km)
Rail	4.0	1200*
Road	2.0	500*

\*Maximum expected distance of consumers purchasing coal through E Auction/ DO and transporting through public road.

**3. Present plantation details:**

S.N.	Land Use	Land under physical possession in ha	Plantation carried out till date in ha
1	Quarry Area	88.95 (59.06 ha backfilled)	9
2	External Dump Area	26.816	9
3	Safety Zone	12	6
<b>Total Area</b>		<b>127.766</b>	<b>24</b>

**Deliberations and Observation of the Committee:**

**36.4.14: The Committee noted the following:**

1. The instant proposal is for grant of Terms of Reference to M/s. South Eastern Coalfields Limited for Rampur Batura Opencast Project (increase in production capacity from 2.0 MTPA to 6.0 MTPA with increase in ML area from 942.873 ha to 1806.053 ha), located at villages: Rampur, Beliya, Antariya, Bichhiya, Khairbana of Shahdol district and Khanda, Kodaili of Anuppur district, Madhya Pradesh. The instant project is a brownfield 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 81.494 ha of forest land, out of which Stage-II forest clearance has been obtained for 76.84 ha forest land vide F.No. 8-33/2015-FC dated 16.07.2019 and for 4.654 Ha of forestland application for Stage – I forest clearance vide proposal no. FP/MP/MIN/18959/2016 on 25.08.2022 has been submitted. PP submitted that the only 1.1 Ha forest land out 76.84 Ha forest land involved in existing EC has been broken during mining activities, after stage II forest clearances and other necessary approvals. It is pertinent to mention that the in additional area 4.654 Ha of revenue forest land is involved in the said project.
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 ML area involves presence of Schedule – I species. The wild conservation plan has not been prepared. Committee opined that PP shall prepare the wildlife conservation plan for the schedule – I species present in the study area and get it approved by the PCCF wildlife.
6. The coal block for the said mine was allocated to the PP under The Coal Bearing Areas (Acquisition and Development) Act, 1957 vide different notifications. Out of total land 1806.053 ha the balance land i.e. 7.017 ha land has been applied by PP for notification under CBA to MOC, vide SECL Letter no. 585 dated 30.05.2025.
7. Committee deliberated on the details of sensitive receptors submitted by the PP and observed that, there are various schools and hospitals within and in close vicinity of the ML area. PP submitted that all the schools and hospitals within the ML area will be shifted as per the R&R plan and the schools and hospitals falling within close vicinity of the ML area will be protected by following certain mitigation measures. Committee opined that PP shall submit a plan for strengthening the facilities in schools and hospitals within 2 km of the ML area along with the application for EC.
8. The mining plan & mine closure plan for the project was approved by board of Directors for (capacity 6.0 MTPA, Mine lease Area 1806.053 Ha) in 360th SECL Board held on 06.08.2025 vide resolution letter no. SECL/BSP/CAD/360th BM EXT/25-26/930 dated 22.08.2025.
9. Method of Mining to be adopted shall be Opencast Mining with drilling-blasting in OB and coal beds and shovel-dumper combination.
10. Total geological reserve reported in the mine lease/block area is 73.534 MT with balance mineable reserve as on 01.04.2025 is 62.53 MT. Extracted so far 2.967 MT. Percent of extraction is 89 %. Average Grade of coal is G 6. Stripping ratio 9.66 cum/tonne. Life of mine is 11 years as on 01.04.2025.
11. Committee deliberated on the method of transportation of coal proposed for the said mines and observed that, from in-pit to CHP crusher the coal will be transported by dumpers and tippers, from CHP crusher to Silo/ TLS through closed conveyor and from Silo to Consumers, the coal will be transported through rail and road. PP submitted that the silo loading system at Railway siding shall be implemented by 31.10.2027 and the in-pit conveyor belt system shall be implemented by 31.12.2028. Thereafter, 4 MTPA coal will be transported by rail and 2 MTPA will be transported by road upto a distance of

500 km.

Committee also observed that a PWD road passing through the ML area will be carved out.

Committee opined that PP shall obtain permission for the same from the concerned authority and the same shall be submitted along with the application for EC.

12. PP submitted that the total water requirement for the said project is 1970 KLD (1270 KLD for industrial water requirement and 700 KLD for proposed residential colony). Source of water shall be Mine sump water for which GW NoC for the same has been obtained by the PP for Batura Opencast coal mine project vide letter no. GW NOC issued by CGWA, New Delhi vide letter no. CGWA/NOC/MIN/REN/1/2025/11632 dtd. 16.05.2025, with validity up to 27.04.2026. PP submitted that, Katna nallah and Jamuniya nallah are flowing through the mine lease area from Southeast direction and Northwest of proposed boundary respectively, which are proposed to be diverted. Katna Nallah-Segment proposed for diversion 3.3 km for distance up to 50 m. The mentioned diversion is a part of existing EC. As per EC, consultation with State Water Resource Department was made and NOC was obtained vide letter no 7-1126 का 15 dated 26.03.2021. Committee opined that an aquatic biodiversity study shall be carried out for the same and a fresh permission for diversion shall be obtained from the State Irrigation department/ Water resource department accordingly.
13. The power requirement for the said project has been estimated to be 5 MW. The electricity requirement will be met from MPPKBBCL. Further, a transmission line of 132 KVA is proposed to be diverted and the approximate length of diversion is 2.895 km. Committee opined that permission for the said diversion shall be obtained from the competent authority.
14. Afforestation shall be done covering an area of 1492.143 ha at the end of mining. This will include reclaimed external OB dump of 31.07 Ha, internal dumps of 1269.672 Ha and greenbelt including safety zone of 26.6 Ha. Density of plantation shall be 2500 nos. of trees per ha. Committee opined that apart from this, PP shall also submit a plan for community plantation, wherein fruit bearing species shall be planted in the nearby villages and shall be taken care of.
15. The rehabilitation and resettlement of the project affected families/ persons is being governed as per the Right to Fair compensation and Transparency in Land Acquisition and Rehabilitation and resettlement Act, 2013. Rehabilitation and resettlement of project affected families have to be carried out as per this Act. Seven villages viz. Rampur, Belia, Khanda, Ataria, Khairbana, Bichhia & Kodaili are falling under Rampur Batura Opencast project. About 1500 nos. of total house are falling under EC boundary and about 3000 PAPs are to be rehabilitated or compensated in lieu of housing plot. Total fund allocated for R&R is Rs. 473.94 Crs.
16. The total cost of the project is Rs. 2020.61 Cr.
17. Committee further opined that PP shall submit the plan for installation of solar panels within the ML area along with the budgetary provisions for the same, in order to reduce the dependency on the thermal generated electricity.
18. 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:**

**36.4.15:** 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:**

- 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 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.
- iii. 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.
- iv. 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.
- v. Project proponent to prepare Environmental Cost Benefit Analysis for the project in EIA/EMP Report.
- vi. 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.
- vii. 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.
- viii. Project proponent should submit a wildlife conservation plan for the Schedule – I species present within the study area, approved by the PCCF Wildlife.
- ix. Project proponent should submit a plan for strengthening the schools (by introducing smart classes, RO facility, Sanitation water, plantation on periphery, etc) and medical facilities (by introducing day care facilities, improved infrastructure, etc) within 2 km of the ML area.
- x. 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.

- xi. Project proponent shall obtain letter from the concerned authority to carve out the PWD road passing through the ML area.
- xii. Project proponent shall prepare the EIA-EMP report and thereafter conduct the Public Consultation, including public hearing, through concerned SPCB in the Anuppur District as per the provisions/procedure contained in the EIA Notification, 2006.
- xiii. Project proponent shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.
- xiv. 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.
- xv. 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.
- xvi. 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 saplings of height not less than 4 feet 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.
- xvii. PP should also submit a plan for community plantation along with the budgetary provisions for planting fruit bearing species in the nearby villages.
- xviii. 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.
- xix. PP shall also submit an action plan for the mitigation measures to be adopted to protect the water bodies in close vicinity of the ML area.
- xx. Project proponent shall carryout the aquatic biodiversity study of the Katna nallah flowing through the mine lease area, which is proposed to be diverted as part of the expansion, through a NABET accredited consultant and accordingly a fresh permission for diversion of the same shall be obtained from the State Irrigation department/ Water resource department and shall be submitted along with the application for EC.

- xxi. Project Proponent shall obtain permission from the competent authority for diversion of 132 KVA power line and the same shall be submitted along with the application for EC.
- xxii. No OB dumping shall be proposed on the forestland.
- xxiii. Project proponent shall explore the various sustainable usages of the void to be created such as introducing carbon sequestration techniques, solar and hydro electricity generation, installation of pipelines for water supply to the ponds in the nearby villages, etc from the said void proposed to be created.
- xxiv. 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.
- xxv. 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.
- xxvi. 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
- xxvii. 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.
- xxviii. 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.
- xxix. Details on waste water generation (Industrial and domestic), their treatment (technology, methodology and capacity) and disposal to be submitted.
- xxx. Details on renewable energy proposed to be installed as energy conservation measures shall be submitted.
- xxxi. 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.
- xxxii. 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.
- xxxiii. 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 date, 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.

- xxxiv. 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.
- xxxv. Project proponent shall submit a plan for installation of solar panels within the ML area in order to reduce its dependency on the thermal generated electricity.
- xxxvi. 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.
- xxxvii. Necessary coordination shall be made with concerned SPCB (who is responsible for Compliance of OM dated 14.01.2025 & 08.10.2025) 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 No. 36.5:**

**36.5:** Expansion of Karo Open cast Coal Mining Project [ML area: 526.32 Ha having production capacity of 11 MTPA (Normative) /15 MTPA (Peak)] **by M/s Central Coalfields Limited**, located at villages: Karo, Amlo, Kargali and Baid Karo; **District: Bokaro; State: Jharkhand – Amendment in Environment Clearance – reg.**

**[Online Proposal no. IA/JH/CMIN/559073/2025; Consultant: CMPDIL: NABET/EIA/25-28/RA 0412 valid till 08/04/2028]**

**36.5.1:** M/s Central Coalfields Limited has made an online application vide proposal no IA/JH/CMIN/559073/2025 dated 22.11.2025 seeking for amendment in the EC accorded vide letter no. F. No. 23-69/2018-IA.II(M)-V, dated 27.12.2019 and its subsequent amendment dated 16/01/2023 and 13/01/2025 for the project mentioned above.

**36.5.2: Details of all the prior ECs including the EC for which amendment is sought:**

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- 11015/544/2009 -IA.II(M)	EC	1.5	226.33	24.12.2014	Implemented
2	F. No. 23-69/2018-IA.II(M)-V	Expansion EC - EC was accorded under the violation category under the provisions of S.O. 804 (E) dated 14/03/2017	11 (Normative capacity)	526.32	27.12.2019	Being implemented
3		1 <sup>st</sup> Amendment (Extension of Timeline for construction of CHP-Silo-Railway Siding till Dec 2024 & restricted EC capacity	and 15 (Peak capacity)		16.01.2023 (EC capacity was restricted to 3.50 MTPA due to delay in implementation	

4		to 3.50 MTPA)			of CHP-Silo-Railway)	
		2 <sup>nd</sup> Amendment (Extension of Timeline for commissioning of CHP-Silo- Railway Siding till Dec 2025 & Release of Bank Guarantee under DRP & NCRAP)			13.01.2025	

W.r.t the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from 2019 onwards. JSPCB issued CTE for 11 MTPA vide JSPCB/HO/RNC/CTE-7061985/2019/709 dated 31.12.2019, & CTO vide SPCB/HO/RNC/CTO-17738414/2024/507 dated 25.03.2024, valid up to 31.03.2029 for a restricted capacity of 3.5 MTPA. Details of previous production are as follows:

Year	EC Sanctioned capacity (MTPA)	Actual Production (MTPA)	Excess production beyond the EC sanctioned capacity
2014-15	1.50	1.63	0.13
2015-16	1.50	1.95	0.45
2016-17	1.50	1.50	NIL
2017-18	1.50	1.50	NIL
2018-19	1.50	1.50	NIL
2019-20	15	3.27	NIL
2020-21	15	2.22	NIL
2021-22	15	2.75	NIL
2022-23	15	1.52	NIL
2023-24	15 (Restricted capacity: 3.5)	1.32	NIL
2024-25	15 (Restricted capacity: 3.5)	1.82	NIL

### 36.5.3: The details of the condition/ para for which amendment is sought and justification for the same is as follows:

Reference	Description as per Approved EC	Amendment being sought in EC	Justification
Specific Condition no. xxii of EC dated 27.12.2019; further amended vide specific condition no. iii of EC amendment dated 16.01.2023; further	As per the latest amendment (i.e., EC amendment dated 13.01.2025)  PP shall complete the work of Karo railway siding and Belt conveyor along with Silo by December 2025. No road transportation will be allowed after the completion of the work of railway siding, and accordingly SPCB shall not grant Consent to Operate after December 2025.	PP shall complete the work of Karo railway siding and Belt conveyor along with Silo by December 2027. No road transportation will be allowed after the completion of the work of railway siding, and accordingly SPCB shall not grant Consent to Operate after December 2027.	Work order for construction of railway siding was awarded on 12.12.2022 and CHP-Silo was awarded on 05.02.2024, and the works are ongoing.  Till date, the railway has achieved physical progress of 50% and financial progress of 34%. CHP-Silo-Conveyor belt has achieved the progress of 26% and 33%. It is expected that the work would be completed by December

Reference	Description as per Approved EC	Amendment being sought in EC	Justification
amended vide specific condition no. 1.3 of EC amendment dated 13.01.2025			2027. Accordingly, amendment for continuation of road transportation till Dec 2027 is being sought.
Specific condition no. iv of EC dated 16.01.2023	PP shall limit the production up to 3.5 MTPA for next two years till the implementation of the said EC condition and CTO shall be granted accordingly.	EAC is kindly requested to restore the original Nominal Capacity of the Project i.e. 11 MTPA for meeting the coal production target of FY 25-26 onwards.	Forest clearance and site handover of 226.67 Ha are obtained, and the mine is prepared to operate at its original nominal capacity of 11 MTPA. Whereas, in order to meet the country's energy needs, the production target for Karo OCP has been set at 4.5 MTPA for FY 2025-26, with year-on-year escalation to align with MoC directives. Therefore, it is kindly requested for Restoration of Normative Capacity of the Project i.e. 11 MTPA for meeting the coal production target.

### 36.5.4: Current and proposed dispatch arrangement for coal:

#### Current dispatch arrangement for coal:

Mode of dispatch	Quantity in MT in 2025-26 (till 30.11.25)	Remarks
Road cum Rail network	1.498	Rail & road cum rail network
Road network	0.303	Local Consumers through E-Auction Road Mode Dispatch
<b>Total</b>	<b>1.801</b>	
<b>Total transport through road cum rail in FY 25-26 (till 30.11.25): 1.498 MTPA</b>		
<b>Total transport through road in FY 25-26 (till 30.11.25): 0.303 MTPA (2024-25)</b>		

#### Proposed dispatch arrangement for coal:

#### Dispatch Target 11 MTPA:

S. No.	Description	Capacity	Consumer
1	Coal Handling Plant with Silo arrangement*	7 MTPA	Powerhouses and other Distant consumers through Basket Linkage
2	Through Road cum Kargali Railway Siding	1.8 MTPA	
3	Through road mode	2.2 MTPA#	Local Consumers through E-Auction Road Mode Dispatch
	<b>Total</b>	<b>11 MTPA</b>	

S. No.	Description	Capacity	Consumer
* Coal Handling Plant with Silo is under construction and expected to be operational by Dec-2027. #In line with the SWMA (Single Window Mode Agnostic) e-auction scheme, up to 20% of the coal auctioned is reserved to cater to the needs of small-scale industries and traders, separate from other coal sourcing linkages such as the SHAKTI scheme for power plants. The e-auctions are conducted on a pan-India basis, where the buyers (traders or consumers) change with each auction, resulting in flexible and undefined final destinations and transport routes until the bidding process is completed.			

### 36.5.5: Traffic Impact Assessment:

1. Details of road: Coal from Pit head of Karo OCP is being transported to Kargali Railway siding which is at a distance of 2.20 km by covered tipping trucks. The current road was built by CCL as a dedicated coal transportation road connecting Karo OCP and Kargali Siding
2. Traffic density study:

Location	Total Est. PCU/ Hr	V/C	LoS
Section 01	755	0.50	C

2 lane (Two Way) undivided as per IRC: 106 -1990 - 1500 PCUs

The Level of Service (LoS)-is expected to be C. The calculated average V/C ratio of 0.50 suggests level of service to be C (Good).

### 3. Air quality monitoring data:

Baseline Air Quality Period: 14/10/2025 – 09/11/2025

S. No.	Name of Station	Latitude (N)	Longitude (E)	Monthly Average (µg/m3)			
				PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>
1	Workshop	23°47'39.71"	85°58'28.73"	152.5	66	28.5	10
2	Karo Village	23°47'15.17"	85°58'37.71"	78	45	<25	10
3	New Karo Colony	23°47'0.14"	85°58'35.99"	78	40	28	8
4	Sarle Jawahar Nagar	23°46'52.63"	85°58'36.80"	76	39	<25	<6
5	Amlo Basti	23°46'51.39"	85°59'16.36"	76.5	38.4	28.5	11
6	Bermo Colony	23°46'47.29"	85°58'13.36"	76.9	37.6	31	13
7	Kargali Washery	23°46'20.29"	85°58'29.72"	145.5	66	44	19
8	Gandhi Nagar colony / Sunday Bazar	23°47'17.61"	85°56'35.34"	76.8	38.5	<25	<6
9	Makoli / Central Colony	23°46'58.82"	86°00'56.77"	77.2	43	<25	<6
10	Sarda Colony	23°46'13.92"	86°01'07.48"	67.4	35.4	30.5	11

### 4. Noise level monitoring data

Code	Name	Zone	Day (leq) dBA		Night (leq) dBA		Noise (Ambient) Standards dBA	
			Max	Min	Max	Min	Day	Night
<b>Industrial</b>								
N1	Workshop	Core	63.4	60.3	56.8	54.2	75	70
N2	Kargali Washery/Phusro WS	Core	65.1	60.7	57.1	53.6	75	70
<b>Commercial</b>								
N3	Sunday Bazar	Buffer	59.2	55.6	48.2	44.5	65	55
<b>Silent Zone</b>								
N4	St. Marys Middle School, Jawahar naga	Buffer	47.1	43.8	38.4	35.9	50	40
N5	RAJKIYAKRIT M S KARGALI	Buffer	44.1	40.6	36.3	33.8	50	40

Code	Name	Zone	Day (leq) dBA		Night (leq) dBA		Noise (Ambient) Standards dBA	
			Max	Min	Max	Min	Day	Night
N6	Primary Health Centre Amlo	Buffer	43.1	40.8	33.4	30.9	50	40
<b>Residential</b>								
N7	Karo village	Buffer	44.1	39.8	34.1	30.9	55	45
N8	Jawahar Nagar	Buffer	43.4	40.8	36.8	33.7	55	45
N9	New Karo Colony	Buffer	47.3	43.8	38.2	35.8	55	45
N10	Bermo Village	Buffer	45.1	42.3	37.3	34.9	55	45

### 5. Details of existing control measures

S. No.	Control Measure	Locations	Quantity
1	Mobile Water Tankers (12 KL & 10 KL)	Haul Roads, Coal & OB Transportation Roads, Mine Faces and Loading/ unloading Areas	2 Numbers
2	Truck Mounted Mobile Fog Cannons	Haul Roads, Coal & OB Transportation Roads, Mine Faces and Loading/ unloading Areas	1 Number
3	Road Sweeping Machine	Coal Transportation Road	1 Number
4	Fixed Sprinklers	Along Coal Transportation Road and Railway Siding	70 Numbers
5	Wheel Washing System	Coal Transportation Road	1 Number
6	Permanent Wind barrier & Green Netting	Along Coal Transportation Road and Railway Siding	1.7 km around railway siding & Green netting 1.5 km long along CTR
7	Avenue Plantation	Along Coal Transportation Road and Railway Siding	1592 Numbers

### 6. Details of proposed control measures:

S. No.	Control Measure	Locations	Quantity
1	Truck Mounted Mobile Fog Cannons	Coal Transportation Road and Railway Siding	1 Number
2	Trolley mounted fog canons	Coal stockyard and Siding	4 Numbers
3	Additional Windscreen with PCC Wall	Railway Siding	1 KM
4	Wind Screen around coal stock yard	Coal stockyard	1.8 KM
5	Additional Automatic Wheel Washing System	Coal Transportation Road	1 Number
6	Gap Plantation along CTR and Railway Siding	Coal Transportation Road and Railway Siding	1000 numbers

### 36.5.6: Justification for seeking extension for installation of Railway siding & CHP-Silo-Conveyor:

#### 1. Details of CHP-Silo-Conveyor belt and Railway Siding:

The work order for constructing the Karo Railway Siding was awarded to IPRCL on 12.12.2022, with an estimated capital cost of ₹160.97 crore. Subsequently, the work order for the construction of the CHP-Silo along with the belt conveyor was issued to ASIAN INDWELL JV on 05.02.2024, at an estimated cost of ₹250.08 crore. The layout plan below

depicts the alignment of the belt conveyor, the railway siding, and the location of the CHP– Silo.

## 2. Work Progress:

The work progress in construction of railway siding-belt conveyor-silo is detailed in the table below.

SN	Name of Work	Implementing Agency	Date of Award of Work	Total Cost (in Rs crore)	Physical Progress		Financial Progress		Anticipated Timeline of completion
					As on Jan-25	As on Oct-25	As on Jan-25	As on Oct-25	
1	Detailed Engineering & PMC for construction of Karo Railway Siding - 2.18 Km Modifications in Existing Karo Railway Siding for RLS	IPRCL (A JV company under Ministry of Port, Shipping & Waterways, GoI).	12.12.2022	160.97	20.70 %	50%	9.00 %	34%	December 2027
2	Coal Handling Plant (7.0 MTY), along with Belt Conveyor and SILO loading arrangement	ASIAN INDWELL JV.	05.02.2024	250.08	7.00 %	26%	1.70 %	33%	December 2027

## 3. Work Progress of Railway Siding:

The physical progress and financial progress of railway siding as on October 2025 are 50% and 34% respectively. The main hindrance in laying of railway line is caused due to a mined out void adjacent to the proposed railway line. Due to old Fly-ash Dumping in the mine void, this region experienced series of slope failures.

A technical Study was carried out for **design of gabion wall along the earth fill by Macaferri and IIT Patna**, report submitted in March 2024. IIT Bhubaneshwar conducted technical study on composite geosynthetic layers in the formation treatment of rail line, report submitted in September 2024. Based on their recommendations, the Earthfilling of void, gabion wall construction and railway line are being taken up.

- Approx 8.64 lakh cum OB out of 9.80 lakh cum filling completed at site for slope protection work (88% Progress).
- Approx 40,078 Cum Earthwork completed (32% Progress)
- Slope stability design completed and foundation work in progress.
- Ground Improvement has been completed in the available patches from CH:1800 to 1580 ,1400 to 1100 total (52% Progress).
- Rail procurement completed. 734.501 MT (100% completed)
- Proof check for 1 Major bridge (ROB) from IIT/Dhanbad is completed.
- 4 nos of RCC Box has been completed (100% work Completed).

- Gabion Wall work in progress 33,573 Sqm has been completed out of 46,253 Sqm.
- Retaining wall work complete at ch-1320-1356.
- Ballast Supplied till date: 5500 Cum.
- 70% P.Way fitting & fastening supply in progress.

#### 4. Work progress of CHP-Silo and Conveyor belt:

The construction of the CHP silo and conveyor belt is being executed by ASIAN INDWELL JV. As of October 2025, the physical progress stands at 26%, while the financial progress is 33%. The physical progress includes completion of the CHP survey, soil investigation, excavation of the silo, and site clearing at TH-1 and the sub-station. Ongoing activities include excavation of the truck receiving hopper and ground bunker, filling and compaction work for the silo at the RLS, fabrication work at the camp site, and procurement of materials.

#### 36.5.7: Justification for restoration of normative production capacity of Coal:

Karo Expansion OCP was originally planned to operate at a capacity of 11/15 MTPA, for which Environmental Clearance (EC) had been obtained. However, the targeted production could not be achieved due to delays in securing site clearance for 226.67 ha of forest land and the production cap of 3.5 MTPA imposed during the EC amendment.

With the forest land clearance issues now fully resolved, the mine is prepared to operate at the enhanced capacity. Concurrently, to meet the nation's rising power demand, the Ministry of Coal (MoC) has assigned a production target of 110 MTPA to CCL under Coal India Limited's 1 billion Tonne roadmap. Accordingly, the production target for Karo OCP has been set at 4.5 MTPA for FY 2025–26, with year-on-year escalation to align with MoC directives.

Despite major challenges, including land constraints and slope failure, the FMC project has achieved 50% physical progress as of October 2025, and the railway siding is expected to be completed by December 2027.

In view of the above, it is requested that the original EC capacity of 11 MTPA be restored, with permission to continue road transportation to the nearby Kargali siding until December 2027.

**36.5.8: Calendar plan of mining as per the approved mining plan:** As per the EC dated 27.12.2019, life of mine is 12 years. As per the approved Mine plan, calendar plan is as follows:

YEARS	SUMMARISED CALENDAR PROGRAMME		
	COAL (MT)	OB (Mcum)	Stripping Ratio (Cum/Te)
1	3	2.45	0.82
2	6	4.90	0.82
3	11	9.19	0.84
4	11	9.97	0.91
5	11	9.97	0.91
6	11	9.73	0.88
7	11	9.41	0.86
8	11	8.91	0.81
9	11	8.81	0.80
10	8.56	7.22	0.84
11	6	5.54	0.92

12	4.62	4.27	0.92
<b>TOTAL</b>	<b>105.18</b>	<b>90.38</b>	<b>0.86</b>

**Future Production Program considering Forest Land diversion (226 Ha) issued on 20.01.2025 submitted by the proponent:**

Year	Coal Production (MTPA)
2025-26	4.50
2026-27	7.00
2027-28	8.00
2028-29	9.50
2029-30	11.00

**36.5.9: Details of Court Cases:** 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 Eevam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project.

**36.5.10: Written Submissions:** During the meeting PP has submitted the following information/ documents:

- Undertaking for completion of CHP-Silo-Siding of Karo OCP:** An undertaking regarding the completion and operationalization of the CHP-Silo-Siding by Dec-2027, along with a CPM/PERT Chart detailing the activity-wise implementation schedule, is submitted.
- Details regarding Plantation:** A plan for development of plantation over 99 Ha along with avenue plantation has been prepared as follows:

Location	Monsoon 2026		Monsoon 2027		Monsoon 2028		Total	
	Area in Ha. / No of Saplings	Cost in Rs. Lakhs	Area in Ha/ No of Saplings	Cost in Rs. Lakhs	Area in Ha./ No of Saplings	Cost in Rs. Lakhs	Area in Ha./ No of Saplings	Cost in Rs. Lakhs
Block Plantation	10 Ha.	65	10 Ha.	65	10 Ha.	65	30	195
Gap Plantation	18 Ha.	72	18 Ha.	72	18 Ha.	72	54	216
Avenue Plantation	800 nos.	20	500 nos.	12.5	500nos.	12.5	1800 nos.	45
Green belt along the mine	5 Ha.	32.5	5 Ha.	32.5	5 Ha.	32.5	15	97.5
<b>Total</b>							<b>99 Ha. &amp; 1800 nos. Avenue Plantation</b>	<b>553.5</b>

- Details regarding installation of Solar Power Plant:** The details of work-order for installation of Solar Power Plant (8.5 MW) and other details including copy of agreement is submitted. Proposed plan for rooftop Solar is as follows:

Location	Area in Ha	Capacity	Total cost in Rs. Lakh	Details of Work Order/ Agreement	Timeline of Completion
Chalkari Basti	14	8.5 MW	5997	GM (E&M)/Agreement /25/Solar/28 dt. 23.09.25 (Copy submitted)	July-2026
Rooftop Solar	--	160 Kwp	80	Tender has been	Work order to be issued by Jan-2026

Location	Area in Ha	Capacity	Total cost in Rs. Lakh	Details of Work Order/ Agreement	Timeline of Completion
Power Plant				issued	Work Completion by July-2026

4. **Details regarding installation of additional CAAQMS:** An undertaking for installation of two (02) additional Continuous Ambient Air Quality Monitoring Stations (CAAQMS) at Karo OCP, by January 2026 is submitted.

**Observations and deliberation of the Committee:**

**36.5.11: The EAC noted the following:**

1. MoEF&CC granted EC to M/s Central Coalfields Limited for Expansion of Karo Open Cast Coal Mining Project [area: 526.32 Ha having production capacity of 11 MTPA (Normative) /15 MTPA (Peak)], located at villages: Karo, Amlo, Kargali and Baid Karo; District: Bokaro; State: Jharkhand vide letter dated 27.12.2019 under the violation category. This EC was further amended vide letter dated 16.01.2023 and 13.01.2025 for extension in timeline of road transportation and installation of CHP along with Silo and railway siding, restricting the EC capacity to 3.5 MTPA till the installation of CHP along with Silo and railway siding is completed and for release of bank guarantee for implementation of DRP & NCRAP.
2. The project is partly implemented and the mine is under operation.
3. The instant proposal is now placed before the EAC for seeking further extension in timeline for the installation of CHP along with Silo and railway siding by December 2027 and for restoration of the normative production capacity in order to reach the coal production target.
4. It is observed that, as per the Specific Condition no. xxii of EC dated 27.12.2019; further amended vide specific condition no. iii of EC amendment dated 16.01.2023; further amended vide specific condition no. 1.3 of EC amendment dated 13.01.2025 the CHP along with Silo and Railway were supposed to be installed by December 2026. However during laying down the railway line, to a mined out void adjacent to the proposed railway line was discovered. Due to old Fly-ash Dumping in the mine void, this region experienced series of slope failures. A technical Study was carried out for design of gabion wall along the earth fill by Macaferri and IIT Patna, report submitted in March 2024. IIT Bhubaneshwar conducted technical study on composite geosynthetic layers in the formation treatment of rail line, report submitted in September 2024. Based on their recommendations, the Earth filling of void, gabion wall construction and railway line are being taken up.
5. Committee deliberated on the status of construction of Silo-CHP-railway siding. PP submitted that, despite major challenges, including land constraints and slope failure, the FMC project has achieved 50% physical progress as of October 2025, and the railway siding is expected to be completed by December 2027. PP also submitted an Undertaking in this regard.

6. Committee further deliberated on the coal transportation road and the air quality and noise quality parameters of the same. Committee observed that, coal from pit head of Karo OCP is being transported to Kargali Railway siding which is at a distance of 2.20 km by covered tipping trucks. The current road was built by CCL as a dedicated coal transportation road connecting Karo OCP and Kargali Siding. Apart from the coal transportation, the road is used by the mine employees to commute for work. The air quality and noise quality parameters are observed to be within the prescribed limits. However, at certain places on the higher side. PP submitted further mitigation measures proposed for the same. Committee opined that the same shall be implemented in a time bound manner. Committee also opined that the additional 2 nos of CAAQMS shall be installed and PP submitted an Undertaking in this regard.
7. Committee deliberated on the plantation carried out by the PP on the coal transportation road and opined that gap plantation shall be carried out in place of mortal trees. Also the plantation shall be strengthen on both the sides of coal transportation road by carrying out 3-tier plantation using native and fast growing species with the saplings of height not less than 4 feets.
8. Committee also opined that PP shall reduce its dependency on the thermal generated electricity and install solar power panels in the ML area. PP submitted a plan in this regard. Committee opined that the same shall be implemented in a time – bound manner.
9. Further Committee deliberated on the request of PP to restore its production capacity to the normative capacity granted vide EC dated 27.12.2019, i.e., up to 11 MTPA. During deliberation the Committee came to know that the production capacity was restricted due to delay in installation of CHP-Silo-Railway Siding, as transportation of 11 MTPA road would degrade the road condition further. However, the PP submitted that to meet the nation's rising power demand, the Ministry of Coal (MoC) has assigned a production target of 110 MTPA to CCL under Coal India Limited's 1 billion Tonne roadmap. Accordingly, the production target for Karo OCP has been set at 4.5 MTPA for FY 2025–26, with year-on-year escalation to align with MoC directives.

Committee opined that the with the given LoS category 'C' of the dedicated coal transportation road, the entire normative production capacity cannot be restored. And rather PP may be allowed to increase the production up to 7 MTPA (inline with the production schedule furnished by proponent during the meeting) till the commissioning of CHP-Silo-Railway siding.

10. Committee also deliberated on the compliance of the additional environmental conditions stipulated vide EC dated 13.01.2025 and observed that all the additional conditions of the said EC have been complied by or are under compliance stage.

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

**36.5.12:** In view of the foregoing and after the detailed deliberations, the Committee **recommended** the instant proposal for grant of amendment in the EC granted vide letter no. F. No. 23-69/2018-IA.II(M)-V dated 27.12.2019 and its subsequent amendment dated 16.01.2023 & 13.01.2025, as detailed below **subject to stipulation of following additional specific conditions and uploading of written submissions on PARIVESH portal.** Other

terms and conditions prescribed in EC dated 27.12.2019 and its subsequent amendment dated 16.01.2023 & 13.01.2025 shall remain unchanged:

Condition No. as per EC dated 27.12.2019 & its subsequent amendment dated 16.01.2023 & 13.01.2025	Description as per approved EC	Recommendation of EAC
Specific Condition no. 4(iii), of EC granted vide letter F. No. 23-69/2018-IA.II(M)-V dated 16.01.2023 and subsequently amended vide letter dated 13.01.2025	PP shall complete the work of Karo railway siding and Belt conveyor along with Silo by <b>December 2025</b> . No road transportation will be allowed after the completion of the work of railway siding, and accordingly SPCB shall not grant Consent to Operate after <b>December 2025</b> .	<p><b>Agreed.</b> With regard to the changes in the said condition, Committee decided to modify it as follows:</p> <p><i>"PP shall complete the work of Karo railway siding and Belt conveyor along with Silo by <b>December 2027</b>. Thereafter, only 20% of the total coal production shall be allowed to be transported by road to the local consumers using tarpaulin covered tippers."</i></p>
Specific condition no. iv of EC dated 16.01.2023	PP shall limit the production up to 3.5 MTPA for next two years till the implementation of the said EC condition and CTO shall be granted accordingly.	<p><b>Partially agreed.</b> With regard to the changes in the said condition, Committee decided to modify it as follows:</p> <p><i>"Project proponent shall limit the coal production up to 7 MTPA till the commissioning of CHP-Silo-Railway Siding and CTO shall be granted accordingly. Only after the CHP-Silo-Railway siding are fully commissioned, the PP can operate on the granted normative capacity subject to a valid CTO from JSPCB for the same."</i></p>

#### Additional Specific Conditions:

- As committed, plantation with native and fast-growing species with saplings of not less than 4 feet height shall be planted within 99 Ha as follows:

Location	Monsoon 2026		Monsoon 2027		Monsoon 2028		Total	
	Area in Ha/ No of Saplings	Cost in Rs. Lakhs	Area in Ha/ No of Saplings	Cost in Rs. Lakhs	Area in Ha/ No of Saplings	Cost in Rs. Lakhs	Area in Ha/ No of Saplings	Cost in Rs. Lakhs
Block Plantation	10 Ha.	65	10 Ha.	65	10 Ha.	65	30	195
Gap Plantation	18 Ha.	72	18 Ha.	72	18 Ha.	72	54	216
Avenue Plantation	800 nos.	20	500 nos.	12.5	500nos.	12.5	1800 nos.	45
Green belt along the mine	5 Ha.	32.5	5 Ha.	32.5	5 Ha.	32.5	15	97.5

Location	Monsoon 2026		Monsoon 2027		Monsoon 2028		Total	
	Area in Ha/ No of Saplings	Cost in Rs. Lakhs	Area in Ha/ No of Saplings	Cost in Rs. Lakhs	Area in Ha/ No of Saplings	Cost in Rs. Lakhs	Area in Ha/ No of Saplings	Cost in Rs. Lakhs
<b>Total</b>						<b>99 Ha. &amp; 1800 nos. Avenue Plantation</b>	<b>553.5</b>	

2. As committed, project proponent shall install solar power plant of 8.5 MW in the ML area as follows:

Location	Area in Ha	Capacity	Total cost in Rs. Lakh	Details of Work Order/ Agreement	Timeline of Completion
Chalkari Basti	14	8.5 MW	5997	GM (E&M)/Agreement /25/Solar/28 dt. 23.09.25	July-2026
Rooftop Solar Power Plant	--	160 Kwp	80	Tender has been issued	Work order to be issued by Jan-2026 Work Completion by July-2026

3. Project proponent shall carryout 3 tier plantation using native and fast-growing species with the saplings of height not less than 4 feet on both the sides of the coal transportation road by December 2027.

4. As committed, following environmental control measures shall be followed:

S. No.	Control Measure	Locations	Quantity	Timelines
1	Truck Mounted Mobile Fog Cannons	Coal Transportation Road and Railway Siding	1 Number	March 2026
2	Trolley mounted fog canons	Coal stockyard and Siding	4 Numbers	March 2026
3	Additional Windscreen with PCC Wall	Railway Siding	1 KM	May 2026
4	Wind Screen around coal stock yard	Coal stockyard	1.8 KM	May 2026
5	Additional Automatic Wheel Washing System	Coal Transportation Road	1 Number	March 2026
6	Gap Plantation along CTR and Railway Siding	Coal Transportation Road and Railway Siding	1000 numbers	January 2026

5. 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.

6. Additional air pollution control measures should be taken along roads being used for the transport of coal including e-/CNG/LNG vehicles.

7. Project proponent shall widen the shoulders of the coal transportation roads and the same shall be adequately maintained.

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**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 riversstreams/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 riversstreams 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
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Sl. No.	Land use	Within ML area (ha)	Outside ML area (ha)	Total
1.	Agricultural land			
2.	Forestland			
3.	Wasteland			
4.	Grazing land			
5.	Surface water bodies			
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 (PM10, PM2.5, 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 though 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 280 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.

Table1: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 minelife)*
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 Belt Area					
6.	Undisturbed area (brought Under plantation)					
7.	Roads (avenue plantation)					
8.	Area around buildings and Infrastructure					
	<b>TOTAL</b>					

\*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 used during Mining	Land Use(ha)				
		Plantation	Water Body	Public Use	Undisturbed	TOTAL
1.	External OB Dump					

S.N.	Land used during Mining	Land Use(ha)				
2.	Topsoil Dump					
3.	Excavation					
4.	Roads					
5.	Built up area					
6.	Green Belt					
7.	Undisturbed Area					
	<b>TOTAL</b>					

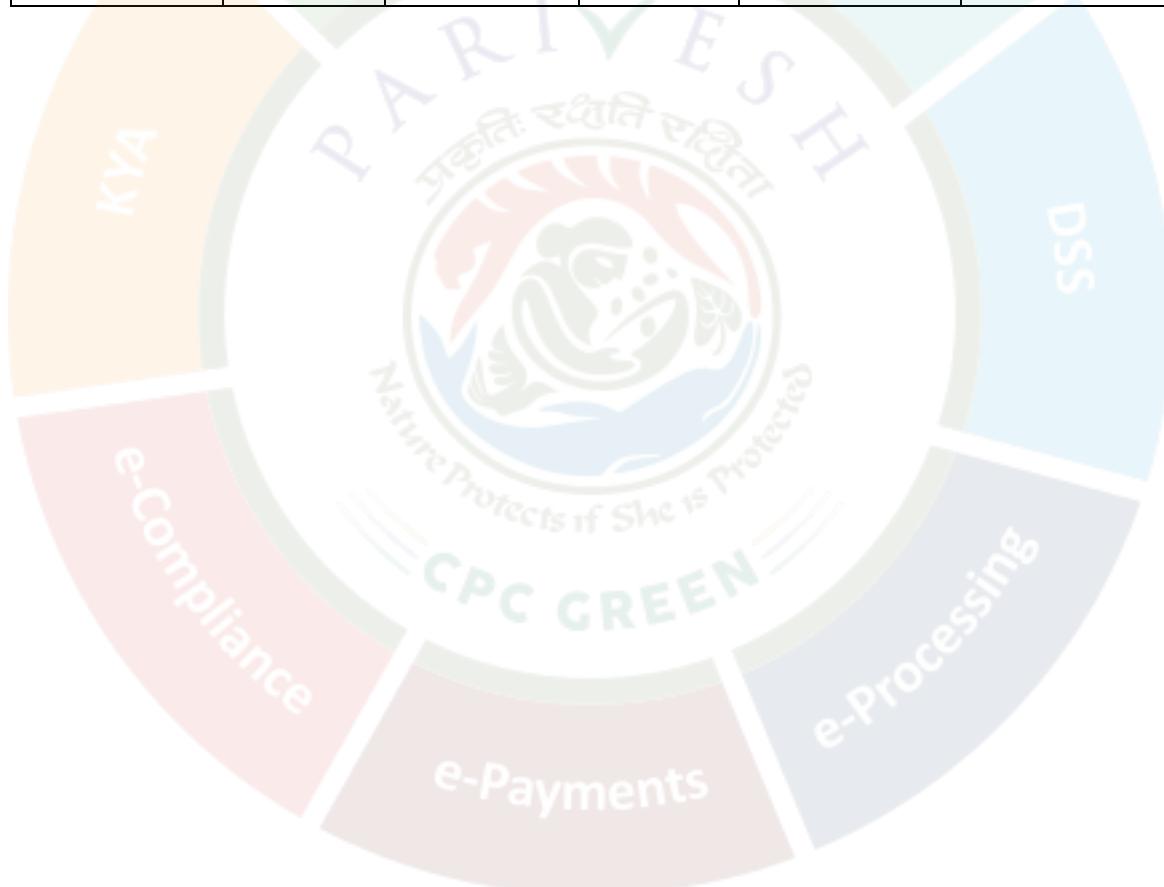
- (xxxii) Flow chart of water balance should be provided. Treatment of effluents from workshop, township, domestic waste water, mine water discharge, etc. should be provided. Details of STP in colony and ETP in mine should be given. Recycling of water to the maximum possible extent should be done.
- (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:
  - 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.
- (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.
- (xli) 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.

(xliv) 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.

(xlv) 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 PROJECT AREA(Ha)	ML/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**

**LIST OF PARTICIPANTS OF EAC (COAL) IN 36<sup>TH</sup> MEETING HELD ON 08<sup>TH</sup> DECEMBER 2025, THROUGH VIRTUAL MODE**

<b>S. No.</b>	<b>Name &amp; Address</b>	<b>Role</b>	<b>08.12.2025</b>
1.	Shri Inder Pal Singh Matharu, IFS (Retd.)	Chairman	Present
2.	Shri Lalit Kapur	Member	Present
3.	Dr. Umesh Jagannathrao Kahalekar	Member	Present
4.	Dr. Santosh Kumar Hampannavar	Member	Absent
5.	Shri Savalge Chandrasekhar	Member	Present
6.	Shri K. B. Biswas	Member	Present
7.	Prof. Shyam Shanker Singh	Member	Present
8.	Dr. Vinod Agrawal	Member	Present
9.	Shri Prasoon Gargava, Scientist - F	Representative of Central Pollution Control Board	Present
10.	Shri Mahi Pal Singh, Chief Engineer	Representative of Central Electricity Authority (CEA)	Present
11.	Shri Harmeet Sahaney	Representative of Indian Meteorological Department (IMD)	Absent
12.	Prof. R M Bhattacharjee	Representative of IIT/ISM Dhanbad	Absent
13.	Shri Sundar Ramanathan	Scientist 'F' & Member Secretary	Present
14.	Dr. Rajesh Prasad Rastogi	Scientist 'D'	Present

### Approval of the Chairman

To "Sundar Ramanathan"<r.sundar@nic.in>,"RAJESH PRASAD RASTOGI"<rp.rastogi@gov.in>

Dear Sundar ji,

I have gone through the final MoM of 36th EAC COAL held on 08th December 2025. I agree with it as all the points discussed in the meeting and later on, amendments done in the draft of said MoM have been incorporated. I approve the final MoM of 36th EAC COAL held on 08th December 2025

Sincerely Yours

Inder Pal Singh Matharu

Chairman

EAC, Coal mining and Thermal Power

MoEF&CC

On Sun, Dec 21, 2025 at 10:28 AM Sundar Ramanathan <[r.sundar@nic.in](mailto:r.sundar@nic.in)> wrote:  
Sir,

Please find enclosed herewith the final MoM of the 36 EAC - Coal held on 08/12/2025 after duly incorporating the suggestions in blue color font.

Approval of Chairman is solicited for uploading the attached MoM on Parivesh portal.

With regards,  
Sundar

