

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

**Date of zero draft MoM sent to Chairman: 30/01/2026**

**Approval by Chairman: 02/02/2026**

**Uploading on PARIVESH: 02/02/2026**

**SUMMARY RECORD OF THE THIRTY EIGHT (38<sup>TH</sup>) MEETING OF EXPERT APPRAISAL COMMITTEE (EAC) HELD ON 20-21<sup>ST</sup> JANUARY, 2026 FOR ENVIRONMENT APPRAISAL OF COAL MINING SECTOR PROJECTS THROUGH PHYSICAL MODE.**

**20<sup>TH</sup> JANUARY, 2026 [TUESDAY]**

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 37<sup>th</sup> meeting of the EAC (Coal): The minutes of the 37<sup>th</sup> meeting of the EAC (Coal) held on 22 – 23<sup>rd</sup> December, 2025 through physical mode have been confirmed by the EAC, along with the following corrections:

**A. Agenda Item No. 37.2:**

Minutes uploaded on PARIVESH	To be read as
<b>Specific Condition no. 2:</b>  Project proponent shall obtain the comments from the concerned State Pollution Control Board, <b>Chhattisgarh</b> , within 30 days from the date of grant of EC in accordance Ministry's OM dated 14.01.2025, 08.10.2025 and 25.11.2025 pertaining to " <i>Obtaining comments from the State Pollution Control Boards (SPCBs) / Pollution Control Committees (PCCs) and Standard Operating Procedure [SOP] for obtaining comments from State Pollution Control Boards (SPCBs) / Pollution Control Committees (PCCs), through PARIVESH Portal, under the provision of Ministry's OM dated 14th January, 2025</i> "	<b>Specific Condition no. 2:</b>  Project proponent shall obtain the environmental safeguards from the State Pollution Control Board, Madhya Pradesh, within 30 days from the date of grant of EC in accordance with the para 4E of Ministry's OM dated 14.01.2025.

**B. Agenda Item No. 37.5:**

Minutes uploaded on PARIVESH	To be read as
<b>Para 37.5.5: Baseline Data:</b>  <b>Flora and fauna:</b> There are 29 species that fall under the Schedule-I category as per the Indian Wildlife (Protection) Amendment Act, 2022. A comprehensive Conservation Plan with budgetary provision of Rs. 344 Lakhs for conservation of schedule-I species has been prepared and approved by DFO and forwarded to PCCF (WL) dated 28.11.2025 for final approval.	<b>Para 37.5.5: Baseline Data:</b>  <b>Flora and fauna:</b> There are 29 species that fall under the Schedule-I category as per the Indian Wildlife (Protection) Amendment Act, 2022. A comprehensive Conservation Plan with budgetary provision of Rs 344 Lakhs for conservation of schedule-I species has been prepared and approved by DFO and forwarded to PCCF (WL) dated 28.11.2025 for final approval.

Minutes uploaded on PARIVESH	To be read as
Thereafter, the CCF, Rewa, examined and approved the WLCP, and the plan was forwarded to the PCCF (Wildlife), Bhopal, on 08.12.2025 for final approval. The complete WLCP along with forwarding letters has been submitted to the PCCF (Wildlife) Office, Bhopal, on 10.12.2025 and is <b>presently under consideration</b> .	Thereafter, the CCF, Rewa, examined and approved the WLCP, and the plan was forwarded to the PCCF (Wildlife), Bhopal, on 08.12.2025 for final approval. The complete WLCP along with forwarding letters has been submitted to the PCCF (Wildlife) Office, Bhopal, on 10.12.2025 and WLCP is <b>approved by PCCF (Wildlife), Madhya Pradesh on 29.12.2025</b> .
<p><b><u>Para 37.5.11: Plantation:</u></b></p> <p>Proposed greenbelt will be developed in 14.808 ha <b>which is about 38% of the total ML area. Thus total of 38.808 ha area (38% of total ML area)</b> will be developed as greenbelt. A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover as per CPCB/MoEF&amp;CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 25000 saplings will be planted and nurtured in 14.808 hectares in 5 years. In addition to this plantation shall be carried out in nearby village community area and Gap Planation in Forest, no dumping is proposed for the project.</p>	<p><b><u>Para 37.5.11: Plantation:</u></b></p> <p>Proposed greenbelt will be developed in 14.808 ha <b>which is about 1.5% of the total ML area. Thus total of 38.808 ha area (3.9% of total ML area)</b> will be developed as greenbelt. A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover as per CPCB/MoEF&amp;CC, New Delhi guidelines. Local and native species of not less than 4 feet will be planted with a density of 2500 trees per hectare. Total no. of 25000 saplings will be planted and nurtured in 14.808 hectares in 5 years. In addition to this plantation shall be carried out in nearby village community area and Gap Planation in Forest, no dumping is proposed for the project.</p>
<p><b><u>Specific Condition no. 3:</u></b></p> <p>No water body shall be diverted for the instant proposal, as committed by the project proponent. The recommendations of the watershed management plan shall be implemented <b>within 2 years from the date of grant of EC</b>.</p>	<p><b><u>Specific Condition no. 3:</u></b></p> <p>No water body shall be diverted for the instant proposal, as committed by the project proponent. The recommendations of the watershed management plan shall be implemented <b>within 2 years from the date of commencement of mine operation</b>.</p>
<p><b><u>Specific Condition no. 4:</u></b></p> <p>As committed, no depillaring under the <b>forestland</b> and water bodies shall be done.</p>	<p><b><u>Specific Condition no. 4:</u></b></p> <p>As committed, no depillaring under the <b>Road</b> and water bodies shall be done.</p>
<p><b><u>Standard Condition No. 2 (iii):</u></b></p> <p>Transportation of the coal through the existing road passing through <b>any village</b> 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.</p>	<p><b><u>Standard Condition No. 2 (iii):</u></b></p> <p>Transportation of the coal through the existing road, passing through any <b>new village</b> 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</p>

### **Agenda No. 38.1:**

**38.1: Jagannathpur Opencast Coal Mine Project (increase in production capacity from 4.2 MTPA to 4.9 MTPA within the ML area of 662.151 Ha) by M/s South Eastern Coalfields Limited, located at Villages: Chaura, Jagannathpur, Paraswarkala & Pampapur; District: Balrampur & Surajpur; State: Chhattisgarh – Environment Clearance for second phase of 20% expansion as per MoEF&CC OM dated 11.04.2022 – reg.**

**[Online Proposal No. IA/CG/CMIN/560674/2025; Consultant: CMPDIL; NABET/EIA/25-28/RA 0412 valid till 08/04/2028]**

**38.1.1:** M/s South Eastern Coalfields Limited made an online application vide proposal no: IA/CG/CMIN/560674/2025 dated 05.12.2025 for expansion of Jagannathpur Opencast Coal Mine Project [under clause 7(ii) for second phase of 20% expansion] along with copy of EIA/ EMP report, Form and Certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. (1)a under Category “A” of the schedule of the EIA Notification, 2006 and does not attract general condition and is appraised at Central Level.

The project of M/s South Eastern Coalfields Ltd is a brownfield project for expansion of production capacity from 4.2 MTPA to 4.9 MTPA, for the second phase of 20% expansion as per Ministry's OM dated 11.04.2022, within the existing ML area of 662.151 Ha.

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

**38.1.2: Details of Previous Approvals in chronological orders:**

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-11015/60/2016-IA.II (M)	EC	3.5	686.151	16.02.2018	Implemented
2	J-11015/60/2016-IA.II (M)	EC Expansion under 7(ii) 20% expansion of first phase	4.2	662.151	28.02.2025	Implemented
3	J-11015/60/2016-IA.II (M)	Corrigendum in EC	4.2	662.151	30.06.2025	Implemented

**38.1.3: Previous production details:** W.r.t the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from 2019-20 onwards. CTO renewal has been obtained from the SPCB and is valid up to 30.11.2026. Details of the same are as follows:

Year	EC sanctioned capacity (MTPA)	Actual Production (MT)	Excess Production(MT)
2019-20	3.5	0.09	NIL
2020-21	3.5	1	NIL
2021-22	3.5	1.78	NIL
2022-23	3.5	2.26	NIL
2023-24	3.5	2.83	NIL
2024-25	4.2	3.81	NIL

**38.1.4: Certified Compliance Report:** The Status of compliance of earlier EC was obtained from Regional Office, MoEF&CC, Naya Raipur vide letter no. F.No.EC-745/RON/2018-NGP/108 dated 21.11.2025 in the name of M/s. Jagannathpur OCP, SECL Bhatgaon Area. The Action taken report regarding the partially/ non-complied condition was submitted to the Regional Officer MoEF&CC, Raipur vide letter no SECL/BHAT/SAM/JOCP/CCR/2025/2326 dated 01.12.2025. The details of the observations made by RO in the report dated 22.12.2025 along with its re-assessment as furnished by the RO is given as below:

S. No.	Non-Compliance Details	Observation of RO (abridged)	Condition No			Re-assessment by RO
			EC date	Specific	General	
Environment Clearance No. J-11015/60/2016-IA.II (M) dated 16/02/2018 for 3.5 MTY						
1	Condition No. 4(i) The maximum production from the	Project Authority is advised to get the production details for the past	16.02.2018	4.1		Project Authority in their action taken report submitted production details for the past five years, duly certified by the Competent Authority, which shows that

S. No.	Non-Compliance Details	Observation of RO (abridged)	Condition No			Re-assessment by RO
			EC date	Specific	General	
	mine at any given time shall not exceed the mine as prescribed in the EC.	five years duly certified by the Department of Geology and Mining, Govt. of Chhattisgarh – condition No.4(i).				the production achieved is within the sanctioned capacity. <b>The condition may be treated as complied</b>
4a	condition No.4.(xi), Thick green belt of 30-45 m width to be provided 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.	Though the greenbelt development is in progress, a three-tier avenue plantation should be developed along vacant areas, storage yards, loading transfer points, and also along internal roads/main approach roads.	16.02.2018		4.(xi)	Based on the conditions stipulated and recent field observations as shown below, this Office has mentioned in the observation that though the greenbelt development is in progress, a three-tier avenue plantation should be developed along vacant areas, storage yards, loading transfer points, and also along internal roads/main approach roads. Further, active OB dump should be stabilized with native grass species. <b>Project Authority should take appropriate corrective measures</b>
4b	condition No.4.1(b)(v) The top soil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized for long. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilized with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office on six monthly basis.	Further, active OB dump should be stabilized with native grass species – condition No.4.(xi), condition No.4.1(b)(v) and condition No.4.1(c)(ii).	16.02.2018		4.1(b)(v)	
4c	condition No.4.1(c)(ii). Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area in a phased manner. The green belt comprising		16.02.2018		4.1(c)(ii).	

S. No.	Non-Compliance Details	Observation of RO (abridged)	Condition No			Re-assessment by RO
			EC date	Specific	General	
	a mix of native Species shall be developed all along the major approach / coal transportation roads					
5a	condition No.4.1(c)(v) Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.	Belt-conveyors (fully covered) along with side cladding all along the conveyor gantry have not been provided to avoid air borne dust. Presently this Mine is not having any dedicated CHP. So far, separate residential colony with STP has not been established for this project. Project Authority shall effectively comply with all the stipulated conditions and if any of the condition is not applicable to this project, the same shall be get amended from the MoEF&CC, New Delhi – condition No.4.1(c)(v) & (vi) and condition No.4.1(c)(ix).	16.02.2018		4.1(c)(v)	The reply of Project Authority has not addressed the observed non-compliances reported. Project Authority should effectively comply with the stipulated EC conditions. If the stipulated conditions are not applicable or not feasible to implement, such conditions ought to have amended from the MoEF&CC. Instead, flexibility of the conditions cannot be permitted by any authority. As per the condition No.4.1(c) (i) & (v), transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. Belt conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Presently, Belt-conveyors (fully covered) along with side cladding all along the conveyor gantry has neither been provided in the Mine nor amended the condition. As per the condition No.4.1(c) (vi) Coal handling plant shall be operated with effective control measures viz. bag filters / water or mist sprinkling system etc. Presently this Mine is not having any dedicated CHP rather coal is being transported to the common CHP available for the mines located in the Bhatgaon area. If the condition is not applicable, Project Authority shall amend the EC condition. So far, separate residential colony with STP has not been established for this project and thus the condition no.4.1(c)(ix) may be amended suitably. Project Authority in their reply submitted that the matter will be taken up with the MoEF&CC/EAC to ensure consistency and eliminate any regulatory overlaps. In view of the above, <b>PP shall seek amendment in the previous ECs accordingly.</b>
5b	condition No.4.1(c)(vi) Coal handling plant shall be operated with effective control measures viz. bag filters/water or mist sprinkling system etc. to check fugitive emissions from crushing operations, conveyor system, transfer points, etc.		16.02.2018		4.1(c) (vi)	
5c	condition No.4.1(c)(ix) Industrial wastewater generated from CHP, workshop and other wastewater, 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. Oil and grease trap shall be installed and maintained fully functional with effluents discharge adhering to the norms. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic waste		16.02.2018		4.1(c)(ix)	
6	condition No.4.1(c)(viii) Catch/garland drains and siltation ponds of	Project Authority shall strengthen retaining wall at the toe of the OB	16.02.2018		4.1(c)(viii)	Project Authority in their reply submitted a copy of work award dated 21/07/2025 for construction of retaining wall at toe of the OB dumps. Reportedly

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			EC date	Specific	General	
	appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly consolidated/ compacted and accumulation of water over dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ ponds so constructed shall be regularly de- silted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. The water collected in the sump shall be utilized for dust suppression measures and green belt  development. The dimensions of the retaining wall constructed, if any, at the toe of the OB dumps within the mine to check run-off and siltation should be based on the rainfall data. The plantation of native species to be made between toe of the dump and adjacent field/habitation/water bodies.	dumps condition No.4.1(c) (viii)	—			the work has been completed in January 2026.
7	condition No.4.1(j)(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 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	One CAAQM Station already installed needs to be linked with the server of CPCB – condition No.4.1(j)(i)	16.02.2018		4.1(j)(i)	<b>The condition may be treated as complied with.</b>

S. No.	Non-Compliance Details	Observation of RO (abridged)	Condition No			Re-assessment by RO
			EC date	Specific	General	
	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.					
8	condition No.4.1(j)(iii) The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Coal Industry Standards vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.	Online real time effluent quality monitoring station installed to monitor the treated mine discharge water is not functional. It is advised to take necessary corrective measures and also link the same to the servers of the CPCB and CECB – condition No.4.1(j)(iii)	16.02.2018		4.1(j)(iii)	The temporary non-operation of the online effluent monitoring system was due to a technical fault, which has since been addressed. Rectification measures are underway, and the system shall be fully operational and linked to CPCB/CECB servers within the committed timeline. Meanwhile, manual monitoring through CMPDI as per Coal Industry Standards is being regularly undertaken.
9	condition No.4.1(k)(viii) The above conditions will 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 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.	Project Authority has not obtained Public Liability Insurance under Public Liability Insurance Act, 1991. Project Authority claims that the condition is not applicable for the Project. In the absence of amendment in the said EC condition, Project Authority is bound to effectively comply with all the stipulated conditions contained in the EC inter-alia including obtaining insurance under Public Liability Insurance Act, 1991 – condition No.4.1(k)(viii).	16.02.2018		4.1(k)(viii)	<p>This Sub-Office completely disagree with the reply of the Project Authority and the condition may be treated as not complied on account of the following facts: Comments of this Office is furnished below:</p> <ul style="list-style-type: none"> <li>•Public Liability Insurance is not connected with the magnitude of the hazardous substance / quantity of explosives used.</li> <li>•This Sub-Office completely disagree with the reply of the Project Authority. If the condition is not applicable, the same should have been deleted by an amendment.</li> <li>•While several other coal mining projects in the Chhattisgarh Region with lesser production capacity than this Project has already obtained Public Liability Insurance and also renewing regularly. Even construction Projects are obtaining the Public Liability Insurance. In such circumstances, without amending the condition already stipulated, claim of non-applicability of the condition, clearly tantamount contravention to the provisions of Environment (Protection) Act, 1986.</li> <li>•It is worth to mention here that despite of certain other Projects are having valid Public Liability Insurance, in a couple of Suo moto cases in the Jurisdiction of Chhattisgarh, Hon'ble NGT passed an Order against the Mining Company to</li> </ul>

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			EC date	Specific	General	
Environment Clearance No. J-11015/60/2016-IA.II (M) dated 28/02/2025 for 4.2 MTY						
10	specific condition No.1A(1.1) 1006 Project Affected Families (PAF) will be affected due to the proposed project. The affected families should be rehabilitated as per R & R plan approved by the State Government. Compliance status in this regard shall be submitted to the concerned Regional Office of MoEF&CC along with the six monthly compliance report.	Inconsistency has been observed in the R&R details mentioned in the EC letters and the statement made by the Project Authority. On perusal of the records, it appears that the R&R activities have not been completely implemented. If there is any overlap in the PAP, appropriate amendment in the EC needs to be obtained – specific condition No.1A(1.1)		1A(1.1)		Project Authority in their reply submitted the reason for the inconsistency in the R&R details mentioned in the EC and statement made by the Project Authority. Ministry may take appropriate corrective action. <b>The condition has partly complied and partly yet to be complied.</b>
11	Specific condition No.1A (1.4). The retaining wall on the toe of the OB dumps shall be constructed by April 2025, as committed.	Project Authority shall strengthen the retaining wall at the toe of the OB dumps as committed – specific condition No.1A(1.4).		1A(1.4)		Project Authority in their reply submitted a copy of work award dated 21/07/2025 issued for construction of retaining wall at toe of the OB dumps. Reportedly the work will be completed in January, 2026.
12	Project proponent shall install one continuous ambient air quality monitoring station at suitable location in consultation with CECB by March, 2025 as committed. The real time data so generated shall be uploaded on company website and linked it with website of CPCB & SPCB. In addition, data should also be displayed digitally at entry and exit gate of mine lease area for public display.	Continuous Online Ambient Air Quality Monitoring Station installed has not been linked to the server of CPCB		1A(1.5)		<b>The condition may be treated as complied with.</b>
13	Specific condition No.1A(1.6) The pending employment to be given to the villagers as per the action plan of Public Hearing, shall be completed by December 2026, as committed. Monetary compensation in respect of	Specific condition No.1A(1.6) has not been effectively complied within the time frame		1A(1.6)		Partly complied with the condition and Project Authority assured to completely comply with the condition by December, 2026. <b>In view of the above, PP shall seek amendment accordingly.</b>

S. No.	Non-Compliance Details	Observation of RO (abridged)	Condition No			Re-assessment by RO
			EC date	Specific	General	
	employment as per the Public hearing action plan, to the remaining PAPs shall be completed by December 2025, as committed.					
14	specific condition No.1A(1.11) 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 14242.06 lakhs (Capital) and Rs 1246.349 lakhs (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.	Project Authority shall provide the supporting documents regarding earmarked budget of Rs 14242.06 lakhs (Capital) and Rs 1246.349 lakhs (recurring) are kept in separate accounts for the implementation of the protective measure proposed in EMP and are audited annually – specific condition No.1A(1.11)		1A(1.11)		Project Authority in their reply submitted a copy of financial audit statements of Bhatgaon Area. The said voluminous documents does not specifically clarify the earmarked budget to the Jagannathpur Opencast Coal Mine Project. However, Project Authority submitted a declaration in the reply as Annexure-21A, wherein Capital Cost of Rs. 14242.06 lakhs have been earmarked. Among the said allocated Capital budget, reportedly an amount of Rs.4940.782 Lakhs has been spent as on 30/9/2025. Similarly, recurring cost of Rs.1246.349 lakhs have been earmarked and Rs. 4486.3 lakhs has been spent from the recurring cost as on 30/9/2025.)
15	specific condition No.1A(1.13) 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.	Although the Project Authority is in the process of establishing a Centralized Laboratory away from the project site in collaboration with third-party (CMPDI), Environment laboratory (inhouse) with qualified personnel of the M/s SECL have not been setup at the project site of Jagannathpur OC as stipulated in the condition – specific condition No.1A(1.13)		1A(1.13)		The specific condition No.1A(1.13) of the EC is reproduced as under: “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”. So far in house Environmental laboratory has not been setup at the project site. A dedicated team comprising of Environment Engineers, Laboratory chemist and staff to oversee environment management has not been setup. However, Project Authority has provided a building and space for establishing a Centralized laboratory away from the project site at Bhatgaon Area and it appears that a third party (M/s CMPDI) will operate the laboratory for collection of samples from various mines in and around the Bhatgaon Area. During the visit, few instruments are kept ideal and for full-fledged functioning of the laboratory still many essential items need to be procured / setup.
16	Specific condition No.1A(1.16).	The specific condition No.1A(1.16)		1A(1.16)		Project Authority in their reply submitted that work has been awarded to the IIT-BHU for Air & Water Quality

S. No.	Non-Compliance Details	Observation of RO (abridged)	Condition No			Re-assessment by RO
			EC date	Specific	General	
	Third-party audit (by NEERI /CIMFR/IIT/NITs) for air & water quality shall be carried out annually to keep a check on the same. PP shall implement the recommendations of the audit and submit the outcome of the audit to the concerned RO of MoEF&CC	regarding third-party annual audit for air & water quality to keep a check on the same and to implement the recommendations of the audit is still under proposal stage – specific condition No.1A(1.16).				Monitoring & preparation of annual audit report. Project Authority informed that the work will be completed by February 2026. <b>Proponent has submitted the above report along with the written submission.</b>
17	General condition No.(3.8). The project proponent shall take all precautionary measures to ensure reverian/ riparian ecosystem in and around the coal mine upto a distance of 5 km. A reverian /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.	A riverine/ riparian ecosystem conservation and management plan neither prepared nor implemented in consultation with the irrigation / water resource department in the State Government –general condition No.(3.8).			3.8	Project Authority in their reply submitted that work has been awarded to CSIR_NEERI on 19.07.2025 for preparation of riverine/riparian ecosystem conservation and management plan in and around 5 km distance from Jagannathpur OCP. Project Authority informed that the work will be completed by February, 2026.  <b>Proponent has submitted the above report along with the written submission.</b>
18	condition No.9.14 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.	Project Authority has not obtained Public Liability Insurance under Public Liability Insurance Act, 1991. Project Authority claims that the condition is not applicable for the Project. In the absence of amendment in the said EC condition, Project Authority is bound to effectively comply with all the stipulated conditions contained in the EC inter-alia including obtaining insurance under Public Liability Insurance Act, 1991 – Miscellaneous condition No.9.14			9.14	This Sub-Office completely disagree with the reply of the Project Authority and the condition may be treated as not complied on account of the following facts: Comments of this Office is furnished below:  • Public Liability Insurance is not connected with the magnitude of the hazardous substance / quantity of explosives used.  • This Sub-Office completely disagree with the reply of the Project Authority. If the condition is not applicable, the same should have been deleted by an amendment.  • While several other coal mining projects in the Chhattisgarh Region with lesser production capacity than this Project has already obtained Public Liability Insurance and also renewing regularly. Even construction Projects are obtaining the Public Liability Insurance. In such circumstances, without amending the condition already stipulated, claim of non-applicability of the condition, clearly tantamount Contravention to the provisions of Environment (Protection) Act, 1986.  • It is worth to mention here that despite of certain other Projects are having valid Public Liability Insurance, in a couple

S. No.	Non-Compliance Details	Observation of RO (abridged)	Condition No			Re-assessment by RO
			EC date	Specific	General	
						of Suo moto cases in the Jurisdiction of Chhattisgarh, Hon'ble NGT passed an Order against the Mining Company to pay enhanced compensation to the affected persons and also directed the Regulatory authorities concerned to ensure Public Liability Insurance is in place.
19	--	Project Authority should avoid huge quantity of coal stacked within the ML area in multiple locations				Project Authority in their reply submitted that separate proposal for transportation of coal from the coal stock at Jagannathpur to the CHP & siding has been moved and relevant document has been furnished.
20	--	Inconsistency has been observed in the total area of the project mentioned in the EC letters dated 16/02/2018 & 28/02/2025 and thus Ministry may examine the possibility of issuing consolidated EC, superseding the existing ECs to avoid inconsistent multiple ECs for the same project.				Project Authority in their reply submitted that the matter relevant to the observed inconsistency in the total area of the project mentioned in the EC letters dated 16/02/2018 & 28/02/2025 will be taken up with the upcoming EAC.

**38.1.5: Compliance of Ministry's OM dated 11/04/2022:** Instant proposal is for capacity enhancement from 4.2 MTPA to 4.9 MTPA, i.e., for second 20% as per Ministry's OM dated, 11/04/2022.

S. No.	Criteria	Status
1	The Project should have gone through the public hearing process, at least once, for its existing EC capacity on which the expansion is being sought, except those categories of projects which have been exempted as per para 7 III (i) EIA Notification, 2006 and its amendments.	Last Public hearing - PH was conducted on 10.02.2017 in Balrampur District of Chhattisgarh and on 17.03.2017 in Surajpur District of Chhattisgarh for this capacity and project area. Compliance of issues raised during last PH is submitted.
2	There should not be change in Category of the project from 4B2' to 4B1' or 4A' due to proposed modernization or expansion.	There is no change in category of the project. It is a Category A project.
3	There is no additional land acquisition or forest land diversion involved in the proposed expansion or there is no increase in lease area with regard to mining vis-a-vis the area mentioned in the EC, based on which public hearing has been held earlier.	There is no additional land acquisition. The area is remaining same vis-a-vis last public hearing.
4	The proposed expansion shall not be more than 50 % of production capacity as	The proposed expansion is within 50% of production capacity for which last public

S. No.	Criteria	Status
	mentioned in the prior EC, issued on the basis of public hearing held and the same shall be allowed in minimum three phases.	hearing was held. This proposal is for second 20% expansion i.e. 4.2 MTPA to 4.9 MTPA (Phase II of 50% as per OM dt: 11.04.2022).
5	Predicted environmental quality parameters arising out of proposed modernization/ Expansion shall be within the prescribed norms and the same shall be maintained as per prescribed norms.	The predicted concentration levels of PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NOX are within the limits as prescribed in GSR 742 (E) Dt: 25.09.2000 by MoEF&CC and NAAQS, 2009.
6	The proposed expansion shall not result in reduction in greenbelt area as stipulated in the earlier EC, or if the existing ratio of green belt is more than 33%, after expansion it should not reduce below 33%.	The proposed expansion is not reducing the greenbelt area as stipulated in the earlier EC.
7	The project proponent should have satisfactorily complied the conditions stipulated in the existing EC(s) and satisfactorily fulfilled all the commitments made during the earlier public hearing/ consultation proceedings and also commitments given while granting previous expansion, as may be applicable. This shall be duly recorded in the certified compliance report issued by the IRO, CPCB/SPCB, which should not be more than one-year-old at the time of submission of application.	The Certified Compliance Status Report vide F.No. F.No.EC-745/RON/2018-NGP/108 dated 21.11.2025 is satisfactory and ATR with suitable budgetary provisions for Partially complied conditions has been submitted. The commitments made during the earlier public hearing are addressed duly and ATR with suitable budgetary provisions has been submitted.
8	Public consultation shall be undertaken if applicable as per table below by obtaining response in writing as per para 7 III ( ii) (b) of EIA notification 2006, except for those category of projects which have been exempted as per para 7 III (i) of EIA notification 2006 and its amendments.	The current proposal is for 2nd 20% increase of mining capacity. The public consultation will be undertaken for expansion from 40% to 50%.
9	Effluent monitoring includes air quality monitoring systems as specified in the existing EC, if stipulated, should have been installed.	Continuous/manual air quality monitoring is being done as per EC/CTO. Water quality (surface water, effluent water and ground water) and Ground water level are regularly being monitored and report being submitted to MoEFCC/CECB.

### 38.1.6: Environmental Site Settings:

The ML area is covered under Survey of India Topo sheet No. 64 M/3 and is bounded by the geographical coordinates ranging from 23°21'22" to N-23°23'05" N latitudes and 83°11'44" to E-83°14'04" E longitudes.

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

**Mining Lease:** PP has submitted the following details:

S. No.	Govt. Order/ Notifications as the case may be	Area (ha)
1.	S.O. 1935 dated 04.08.2010 under CBA Act 1957	662.151 Ha

**Forest Area:** The project involves total 119.051 ha of forest land and Stage - II forest clearance has been obtained vide F.No.8-35/2017 dated 13.04.2018. Total broken forestland as on 30.11.2025 is 41 ha. Further, PP submitted that there is no violation of Van (Sanrakshan Evar Samvardhan) Adhiniyam, 1980.

**Protected Area:** The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. Further, there is no violation of the WLP Act. PP submitted that there is presence of Schedule - I species namely Urva Edwarsii (common mongoose), Python Molurus (Python), Ptyas Mucosa (Rat Snake), Naja Naja (Cobra), Canis Aureus (Jackal), Felis chaus (Jungle Cat), Rusa Unicolor (Sambar), Melursus Ursinus (Sloth Bear), Vulpes Bengalensis (Fox), Elephas Maximus (Elephant)] and a Wildlife Management Plan have been prepared & duly approved by CG Wildlife Board/PCCF (WL) vide approval letter no. Vanya Prani/Prabandh-412/17/3489 dt 04.07.2017. An amount of Rs. 9,38,50,000/- for the Wildlife Management Plan have been submitted to State Forest Dept on dt 21.11.2017 in CAMPA Account for implementation.

#### Other Sensitive Receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	Particulars	Distance	Direction
i. Habitation	Jagannath Village	Partially within mine boundary	-
	Pampapur Village	Partially within mine boundary	South
	Chaura Village	Partially within mine boundary	North-East
	Paraswar Kalan Village	Partially within mine boundary	South – East
	Kerta Village	1.70 KM	South-West
	Dharampur Village	2.20 KM	North-West
	Madannagar Village	2.40 KM	North
	Manpur Village	2.70 KM	West
	Budhadand Village	3.30 KM	East
	Kokhaniya Village	3.40 KM	South
	Dauppi Village	3.50 KM	North-East
	Kanaknagar Village	4.20 KM	North
	Khadgawan Kalan Village	4.40 KM	South
	Mayapur Village	4.60 KM	West
	Ganeshpur Village	4.70 KM	North
	Gaura Village	4.80 KM	West
<b>Note:</b> There are 48 nos. villages within 10 km buffer zone of study area.			
ii. School	Particulars	Distance	Direction
	PS Khurgipara	Within mine boundary	-
	PS Chitkahipara	0.5	East
	P.S. Choura	1	East

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	M.S. Choura	1	East
	Govt High School Choara	1	East
	P.S. Kansdohar	1.5	North-East
	P.S. kotripara	2	East
	M.S. Parsawarkala	2.5	South-East
	P.S. Parasvarkala	2.5	South-East
	Pvt. Gyan Jyoti Bal Vidhya Seva Samitikarsi	3	North-East
	Govt High School Markadand	3.5	East
	PS Lodhidand	3.5	East
	P.S. Duppi	3.5	North-East
	M.S. Duppi	3.5	North-East
	P.S. Khokhaniya	4	South
	Govt. PS Junadihparasilphili	4	North-East
	<b>Note:</b> there are 177 nos. Of schools including senior secondary schools, secondary schools, primary school and pre-primary schools within 10 km buffer zone of study area.		
iii. River/ Waterbody	River/nala	Distance km	Direction
	Gohangar Nala	0.0 km	SW adjacent to boundary
	Hanrur Nadi	2.58 km	SW
	Mahan River (HFL data: 519.651 m)	1.40 km	SSW
	Dhenki Nakha Nala	6.37 km	NW
	Dhajagir Nala	7.52 km	NW
	Tura Nala	8.34 km	NW
	Patrengi Nadi	7.35 km	NNW
	Banki Nadi	9.31 km	N
	Galphuli Nala	8.52 km	SW
	Padripani Nala	9.04 km	S
	Bansdohar Nala	3.39 km	SSE
	Gagar Nadi	4.78 km	SE
	Phuljar Nala	9.91 km	SSE
iv. Forest	Particulars	Distance km	Direction
	Dharampur RF	6-7 km	NNW
	Pratabpur RF	4-5 km	NNE
	Kotaya PF	4-5 km	NW
	Khokhaniya PF	5-6 km	SE
	Kadura PF	4-5 km	SE
	Jhapra PF	6-7 km	SSW
v. Archaeological Survey of India (ASI) protected site	No		

Project site proximity to sensitive area		Distance in km (within 5 km from the ML area)		
		Particulars	Distance	Direction
vi. Any other		Jagarnathpur Health Center	1	West
		Kerta Health Center	1.5	South-West
		Manpur Health Center	3	West
		Dharampur Health Center	3.5	North-West
		Khadgawan Kalan Health Center	4.5	South
		Koteya Health Center	6	West
		Silphili Health Center	6.5	North-East
		Bojha Health Center	7.5	South-West
		Bagda Health Center	7.5	North-West
		Karsi Health Center	8	North-East
		Khokhaniya Health Center	8	South-East
		Dhandhapur Health Center	8	South-East
		Narsinghpur Health Center	9	East
		Ganeshpur Health Center	10	North
		Badauli Health Center	10	South
Note: There are 15 nos. of primary health centers within 10 km buffer zone of study area.				

No river/ nallah diversions are proposed for the instant project. The Ghongar nala has already been diverted along the mine lease boundary of the project as per EC of 3.5 MTY dated 16.02.2018. The permission has been obtained for diversion of Ghongar Nala dt 29.12.2022.

### 38.1.7: Method of Mining & Mining Plan:

1. Mining plan along with mine closure plan for the Jagannathpur Opencast Coal Project (3.5 MTPA to 5.25 MTPA) was approved by the SECL board on 22.11.2024.
2. The total geographical reserves are reported to be 73.18 MT, out of which mineable reserves are 55.89 MT and extractable reserves is 44.125 MT as on 01.04.2025. Percentage of extraction is 100%.
3. There are a total 9 nos of seams and maximum thickness is reported to be 5 m. Grade of coal G-10 and stripping ratio of 5.98 cum/Te.
4. Life of mine is 09 years (as on 01.04.2025).
5. Method of mining to be adopted shall be Opencast (coal extraction by surface miner and OB removal by shovel and dumper combination).
6. The project has 1 external dump (inside the ML area) (area 40 ha and height 60 m) and 2 internal dumps (area 391.37 ha and height 60 m above the ground level).
7. Land use details:

#### i. Pre-mining land use:

Land Category	Area in Ha
Agriculture Land	505.039
Forest Land	119.051
Waste land	0
Grazing land	0
Surface water bodies	29.76
Road & Infrastructure	8.301
Others	0
<b>Total</b>	<b>662.151</b>

ii. Post-mining land use:

S. No	Land Use	Plantation	Water Body	Public Use	Total
1	Excavation	391.37	129.66	0	521.03
2	External OB Dump	40	0	0	40
3	Road & Infrastructure	0	0	8.2	8.2
4	Safety Zone as Green Belt	92.921	0	0	92.921
	<b>TOTAL</b>	<b>524.291</b>	<b>129.66</b>	<b>8.2</b>	<b>662.151</b>

8. Transportation: Details of transportation of coal are as follows:

- a) In pit: By dumpers/tippers
- b) Surface to siding: By tippers (tarpaulin covered trucks)
- c) Siding to loading: Mechanized loading in wagon/with loader. The proposed nearest railway siding for Jagannathpur group of mines is around 5 km away from Jagannathpur OCP. It is proposed to transport coal by trucks from the project after crushing and meeting the requirements of local customers to the railway siding earmarked for Jagannathpur group of mines.
- d) Quantity being transported by Road/ Rail/ Conveyor/ Ropeway: 2.73 MT coal is transported by rail and 1.1 MT coal is transported by road to local consumers.

Year	Silo/Rail (MT)	Road (MT)	% Rail
2024-25	2.73	1.1	71%

- e) Proposed change in transportation means: Till commissioning of the proposed railway siding, 4.1 MT of coal will be transported by rail and 1.15 MT coal will be transported by road to local consumers. After commissioning of railway siding 4.725 MT coal will be transported by rail and 0.525 MT coal will be transported by road to local consumers.

9. **Reclamation:** Afforestation will be progressively done in 524.291 Ha at the end of the mining. This will include 40 Ha of reclaimed external OB dump, 391.37 Ha of internal dump and 92.921 Ha greenbelt. Density of the plantation will be 2500 nos. of plants per Ha. A void of 129.66 Ha of 110 m depth will be converted into a water body and 8.2 Ha will be used in infrastructure.

**38.1.8: Baseline Data:** PP submitted that the baseline data has been collected from March 2024 to May 2024. Details of the same are as follows:

Period	Baseline data collected for the period March 2024 to May 2024
<b>AAQ parameters at 09 Locations (min and Max)</b>	<p><b>Core Zone</b>  <math>PM_{10} = 125.3</math> to <math>229.1 \mu g/m^3</math>,  <math>PM_{2.5} = 77.6</math> to <math>135.1 \mu g/m^3</math>,  <math>SO_2 = 25.6</math> to <math>37.3 \mu g/m^3</math>,  <math>NOx = 30.6</math> to <math>42.8 \mu g/m^3</math></p> <p><b>Buffer Zone</b>  <math>PM_{10} = 50.2</math> to <math>75.4 \mu g/m^3</math>,  <math>PM_{2.5} = 28.0</math> to <math>47.1 \mu g/m^3</math>,  <math>SO_2 = 14.5</math> to <math>29.6 \mu g/m^3</math>,  <math>NOx = 20.3</math> to <math>35.7 \mu g/m^3</math></p>

Period	Baseline data collected for the period March 2024 to May 2024
<b>Incremental concentration (Baseline + GLC Level)</b>	<p><b>Core Zone</b>  <math>PM_{10} = 217.04 \mu\text{g}/\text{m}^3</math>  <math>PM_{2.5} = 123.64 \mu\text{g}/\text{m}^3</math>  <math>SO_2 = 37.31 \mu\text{g}/\text{m}^3</math>  <math>NOx = 54.77 \mu\text{g}/\text{m}^3</math></p> <p><b>Buffer Zone</b>  <math>PM_{10} = 80.57 \mu\text{g}/\text{m}^3</math>  <math>PM_{2.5} = 48.62 \mu\text{g}/\text{m}^3</math>  <math>SO_2 = 29.30 \mu\text{g}/\text{m}^3</math>  <math>NOx = 39.63 \mu\text{g}/\text{m}^3</math></p>
<b>Ground water quality at 8 Locations</b>	<p><b>Core Zone</b>  pH: 6.71 to 6.94,  TDS: 290 to 330 mg/l,  Hardness: 192 to 218 mg/l,  Chlorides: 65.48 to 71.48 mg/l,  Fluoride: 0.27 to 0.76 mg/l.  Heavy metals  Arsenic: BQL(QL=0.005) to BQL(QL=0.005) mg/l,</p> <p><b>Buffer Zone</b>  pH: 6.82 to 7.26,  Total Hardness: 34 to 218 mg/l,  TDS: 48 to 308 mg/l,  Chlorides: 10.5 to 71.48 mg/l,  Fluoride: 0.12 to 1.05 mg/l.  Heavy metals  Arsenic: BQL(QL=0.005) to BQL(QL=0.005) mg/l,</p>
<b>Surface water quality at 08 Locations</b>	<p><b>Core Zone</b>  pH: 7.14 to 7.82,  TDS: 47 to 62 mg/l,  Chlorides: 11.5 to 16.49 mg/l,  Fluoride: 0.1 to 0.65 mg/l.  DO: 6.8 to 7.4 mg/l,  BOD: 2.2 to 2.3 mg/l,  COD: 5 to 5 mg/l,  Heavy metals  Arsenic: BQL(QL=0.005) to BQL(QL=0.005) mg/l,</p> <p><b>Buffer Zone</b>  pH: 7.02 to 7.77,  TDS: 42 to 131 mg/l,  Chlorides: 12 to 40.49 mg/l, Fluoride: 0.13 to 0.65 mg/l.  DO: 6.5 to 7.9 mg/l,  BOD: 2.1 to 2.7 mg/l,  COD: 5 to 10 mg/l,  Heavy metals  Arsenic: BQL(QL=0.005) to BQL(QL=0.005) mg/l,</p>
<b>Noise levels Leq (Day and Night)</b>	<p><b>Industrial area</b>  65.7 to 68 dB(A) for the day time and 55.0 to 57.3 dB(A) for the Night time.</p> <p><b>Residential area</b>  50.2 to 55.0 dB(A) for the day time and 39.5 to 44.3 dB(A) for the Night time.</p>
<b>Traffic assessment study findings</b>	Traffic study has been conducted at coal transportation road connected to mine site. Transportation of mineral is being done by Bhatgaon railway siding. However, local demand is being meet through road transport.

Period	Baseline data collected for the period March 2024 to May 2024																								
	<p>Existing PCU is 190.67 PCU/hr on coal transport road and existing level of service (LOS) is:</p> <p><b>Existing:</b></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>2 Lane Undivided (Two-Way) of 10m Width (Sub-arterial)</td><td>190.67</td><td>1200</td><td>0.16</td><td>A</td></tr> </tbody> </table> <p>PCU load after proposed project will be 190.67 (Existing) + (54.58 PCU/hr and level of service (LOS) will be:</p> <p><b>Proposed:</b></p> <table border="1"> <thead> <tr> <th>Road</th><th>V (Volume in PCU/hr.)</th><th>C (Capacity in PCU/hr.)</th><th>Proposed V/C Ratio</th><th>LOS</th></tr> </thead> <tbody> <tr> <td>2 Lane Undivided (Two-Way) of 10m Width (Sub-arterial) (Modification not Required)</td><td>245.25</td><td>1200</td><td>0.20</td><td>B</td></tr> </tbody> </table>					Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS	2 Lane Undivided (Two-Way) of 10m Width (Sub-arterial)	190.67	1200	0.16	A	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Proposed V/C Ratio	LOS	2 Lane Undivided (Two-Way) of 10m Width (Sub-arterial) (Modification not Required)	245.25	1200	0.20	B
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2 Lane Undivided (Two-Way) of 10m Width (Sub-arterial) (Modification not Required)	245.25	1200	0.20	B																					
	<p>Note: Traffic Study has been carried out as per IRC 106-1990 Guideline.</p>																								
<b>Flora and fauna</b>	<p>There is presence of Schedule - I species namely <i>Urva Edwarsii</i> (common mongoose), <i>Python Molurus</i> (Python), <i>Ptyas Mucosa</i> (Rat Snake), <i>Naja Naja</i> (Cobra), <i>Canis Aureus</i> (Jackal), <i>Felis chaus</i> (Jungle Cat), <i>Rusa Unicolor</i> (Sambar), <i>Melursus Ursinus</i> (Sloth Bear), <i>Vulpes Bengalensis</i> (Fox), <i>Elephas Maximus</i> (Elephant). Wildlife Management Plan have been prepared &amp; duly approved by CG Wildlife Board/PCCF (WL) vide approval letter no. Vanya Prani/Prabandh-412/17/3489 dt 04.07.2017. An amount of Rs. 9,38,50,000/- for the Wildlife Management Plan have been submitted to State Forest Dept on dt 21.11.2017 in CAMPA Account for implementation.</p>																								
<b>Water Requirement</b>	<p>Source of Water: Mine seepage water          Ground Water Intersection: Yes          Water Requirement: 3435 KLD          NOC (Ground Water): Ground water clearance obtained from CGWA vide NOC no. CGWA/NOC/MIN/REN/1/2024/10088 dtd 24.10.2024. NOC GW was valid till 03.12.2026.          NOC (For surface water): No surface water is being utilised in the mining operation.</p>																								

**38.1.9: Water Requirement:** PP submitted that the existing water requirement for the said project is 2659 KLD and on expansion it shall be 3435 KLD. The source of water shall be mine seepage water. Ground water clearance obtained from CGWA vide NOC no. CGWA/NOC/MIN/REN/1/2024/10088 dated 24.10.2024. NOC is valid till 03.12.2026. No river/ nallah diversions are proposed for the instant project. The Ghongar nala has already been diverted along the mine lease boundary of the project as per EC of 3.5 MTY dated 16.02.2018. As per Office order no. 3445/F-7-15/31/S-2/2019, Atal Nagar dated 13.07.2022 of Chhattisgarh Water Resource Department, Ministry Mahanadi Bhawan, Naya Raipur Atal Nagar, constituted a committee which was headed by District collector, Surajpur for the approval of Gohangar nallah diversion NOC. In this regard, the NOC obtained for nallah diversion dated 29.12.2022 by Collector, Surajpur, Chhattisgarh

**38.1.10: Power requirement and diversion of hi-tension line/ transmission line:** The estimated installed load is 5920 kW and the maximum demand is 3615 kVA with 33 kV overhead transmission line. There is no diversion of the hi-tension line/ transmission line proposed.

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

Type of Waste	Source	Quantity	Mode of Treatment/ Disposal
Used or Spent oil (Schedule - I, Cat. No. 5.1)	HEMM	6.0 KL/year	Used oil/spent oil are auctioned to authorized recyclers
Oil and grease skimming (Schedule - I, Cat. No. - 35.4)	washing of HEMM	0.5 T/Annum	Sell to authorized recyclers
Wastes or residues containing oil (Schedule - I, Cat. No. 5.2)	used filters of HEMM and other waste	0.5 T/Annum	Sell to authorized recyclers
Empty barrels/ containers /liners contaminated with hazardous chemicals /wastes (Schedule - I, Cat. No. 33.1)		6.0 T/Year	Sell to authorized recyclers

**38.1.12: Status of implementation of action plan as per the Public Consultation held for EC dated 16/02/2018:** The public consultation for the same was held in two districts, namely, Surajpur District and Balrampur District. Details of the same are as follows:

Title	Surajpur District	Balrampur District
Details of advertisement given	advertisement given on 12.02.2017 National/English: The Times of India National/Hindi: Dainik Bhaskar Local/Hindi: Ambikavani	advertisement given on 04.01.2017 National/English: The Times of India, National/Hindi: Dainik Bhaskar, Local/Hindi: Haribhumi, Ambikavani
Date of public consultation	17.03.2017	10.02.2017
Venue	Dhan Kharidi Kendra at Village Jagannathpur & Pampapur District Surajpur (C.G.)	High School Ground Choura for Village Choura & Parasar District Balrampur-Ramanujganj (C.G.)
Presiding Officer	CEO, Jila Panchayat-Surajpur	Upper Collector, & Addition District Magistrate, Balrampur
Number of Person Attended Hearing	400 (approx.)	350 (approx.)
Number of representations received in writing from the district and outside of district, please give details:	21	23
Major issues raised	Issues raised for employment, compensation, supply of drinking water, electricity arrangement and development, plantation etc.	

#### Public Hearing Action Plan for next 09 years

S. No.	Physical activity and action plan	Year of Implementation										Total Expenditure (In Lakhs)
		24-25	25-26	26-27	27-28	28-29	29-30	30-31	31-32	32-33	33-34	
1	Infrastructure creation for Drinking Water supply	0	0	5	0	0	0	0	0	5	0	10

S. No.	Physical activity and action plan	Year of Implementation										Total Expenditure (In Lakhs)
		24-25	25-26	26-27	27-28	28-29	29-30	30-31	31-32	32-33	33-34	
2	Sanitation	0	0	0	5	0	0	5	0	0	0	10
3	Education	0	0	4	0	0	5	0	0	0	0	9
4	Skill Development	0	0	0	0	50	0	0	0	0	0	50
5	Roads	0	0	0	10	0	0	0	10	0	0	20
6	Soil moisture conservation works	0	40	40	0	0	0	0	0	0	0	80
7	Infrastructure	0	10	10	10	10	10	10	10	10	10	90
8	Health	0	5	0	0	5	0	0	5	0	0	15
9	Art, Culture & Sports	0	0	10	0	0	0	0	0	0	0	10
10	Livelihood	0	0	0	4.5	0	0	0	5	0		9.5
11	Agricultural programme	0	40	60	25	25	0	0	0	0	0	100
	<b>TOTAL</b>	<b>0</b>	<b>95</b>	<b>129</b>	<b>54.5</b>	<b>90</b>	<b>15</b>	<b>15</b>	<b>30</b>	<b>15</b>	<b>10</b>	<b>453.50</b>

**38.1.13: EMP Budget:** Existing capital cost of project was 459.49 Cr. The capital cost of the proposed project is Rs. 463.07 Crore and the capital cost for environmental protection measures is proposed as 4122.79 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs. 879 Lakh (Rs. 7912 Lakhs for balance mine life). The employment generation from the proposed project / expansion is: 232. The details of cost for environmental protection measures is as follows:

S. No.	Activity	Detail	CAPITAL (in Rs. Lakhs)	RECURRING (in Rs. Lakhs)	TIMELINE
<b>A AIR POLLUTION CONTROL MEASURES</b>					
1	Water sprinklers	Existing Water sprinkling for dust suppression (10 nos mobile sprinklers, fixed sprinklers-21 nos),	515.87	15	System installed & Operation is regular activity
2	Dust suppression- Fog canon (03 nos: fixed type-100m throw)	On Hiring basis – 03 no's – for reduction of pollution on transportation road		170	2026-27
3	Dust suppression- Fog canon (04 nos: Mobile fog canon)	Existing- 01 No, On Hiring basis – 03 no's – for reduction of pollution on transportation road	40 200	5 10	System installed & Operation is regular activity 2026-27
4	Road Sweeping machine (01 nos) Dept + Hiring	Mechanized sweeping machine (1 nos.) on hiring basis.	20.45	10	Completed

S. No.	Activity	Detail	CAPITAL (in Rs. Lakhs)	RECURRING (in Rs. Lakhs)	TIMELINE	
		Dedicated road sweeping machine to remove dust on Coal Transport Road (CTR) and other road		210	Additional from April 26	
5	CAAQMS	CAAQMS-1 nos. in Core zone	60	2.5	Completed	
		1 additional No of CAAQMS will be installed in Buffer zone, in downwind direction.	90	10	Feb-27	
<b>TOTAL (A)</b>			<b>926.32</b>	<b>432.5</b>		
<b>B WATER POLLUTION CONTROL MEASURES</b>						
1	Settling tank	Settling tank for mine water	46.8	20	Operation is regular activity	
		Work Already in progress 24 mx 8m x 2.13m	42	20	2026-27	
2	ETP	Oil and Grease Trap for Workshop Effluents (Capacity 43 KLD)	6.97	5	Operation is regular activity	
		A new 15 KLD Prefabricated ETP will be installed near workshop.	45	15	2026-27	
3	Construction of Check dams (volume- 2200m3)	Construction of boulder Check dams along the points of seepage from Mine to water body (volume- 2200m3)	4	1	2026-27 (in Phase manner)	
4	Rain Water Harvesting	Rainwater harvesting structures (1073 m3/year) in 6 no of buildings Area 942 sqm	3.73	5	Completed	
<b>TOTAL (B)</b>			<b>148.5</b>	<b>66</b>		
<b>C RECLAMATION MEASURES</b>						
1	Plantation	Existing plantation- 1.88 Lakh,	119.86	551	Completed	
		Additional Plantation (11 Lakhs Saplings		4330	Throughout the mine life, the cost of plantation will be Rs.5141 Lakhs	

S. No.	Activity	Detail	CAPITAL (in Rs. Lakhs)	RECURRING (in Rs. Lakhs)	TIMELINE
		including safety zone) till life of the Mine 11.72 Lakhs			
2	Road side plantation including Tree Guard	(20000 nos of plantation all along the 30 KM road from Mine to Bhatgaon siding)	150	70	2026-27
	<b>TOTAL (C)</b>		<b>269.86</b>	<b>4951</b>	
<b>D</b>	<b>Environment Monitoring</b>	(Manual /continuous monitoring for air and water, noise)		<b>2441.5</b>	Regular activity
<b>E</b>	<b>Miscellaneous works</b>				
1	Bituminous/CC road (1.1km)	403m wide road from workshop to Mine gate, 950m road from Workshop to Access trench.	946	10	Work under progress (18 months for construction). Completion time June 2027.
2	Other Misc. expenses	Existing Garland drains, tree guards etc.	43.98	3	Completed
		For future works	124.53	8	2026-27 onwards
	<b>TOTAL (E)</b>		<b>1114.51</b>	<b>21</b>	
<b>F</b>	<b>Wild life conservation plan of Schedule-I species</b>	Wild life conservation plan of Schedule-I species for 10 km buffer zone.	<b>938.5</b>		Approved by PCCF, wild life Raipur & amount deposited into CAMPA Fund vide UTR no. SBINR52017112100041122 dt. 21.11.2017
<b>G</b>	<b>CER</b>	Expenditure incurred till 2025-26	245.6		Completed
		Expenditure against issued raised in Public Hearing	479.5		2026-27 till 2033-34
	<b>TOTAL (G)</b>		<b>725.1</b>	<b>0</b>	
	<b>GRAND TOTAL (A-G)</b>		<b>4122.79</b>	<b>7912</b>	

\* The proposed recurring cost has been taken for balance life of the Mine.

**38.1.14: Plantation:** Existing green belt as part of safety zone has been developed in 35.76 ha area which is about 5.4% of the total ML area of 662.151 ha with total sapling of 39650 Trees. Proposed greenbelt will be developed in 57.161 ha which is about 8.6% of the total ML area. Thus total 183590 trees in an area of 92.921 ha area (14.03 % of total ML area) will be developed as greenbelt and safety zone. A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt as per CPCB/MoEF&CC, New Delhi guidelines. 7.5 m wide greenbelt is part of safety zone. Local and native species will be planted

with a density of 2500 trees per hectare. Gap plantation will be carried out to ensure plantation density of 2500 trees per hectare. Total no. of 1310728 saplings will be planted and nurtured in 524.291 hectares in external, internal dump and safety zone.

**38.1.15: Rehabilitation and Resettlement:** PP submitted the following details of R&R.

S. No	Particulars	Status of R&R as per acquisition of Land in Ha (as on 12.01.2026)				Total TL-505.637 Ha.
		TL-241.880 Ha.	TL-7.740 Ha.	TL-239.573 Ha.	TL-14.325 Ha.	
1	No. of villages	Jagannathpur	Pampapur	Chaura	Paraswarkala	04
2	No of PAP	207	15	337	22	581
3.	Total Land Compensation	Land-50.234 Cr. House/asset-15.173 Cr.	Land-1.599 Cr. House/Asset-0.182 Cr.	Land-49.653 Cr. House/asset-7.278 Cr.	Land-2.831 Cr. House/asset-0.156 Cr	Land-104.317 Cr. House/asset-22.789 Cr
4	No. of PAFs surveyed for Resettlement as per CIL R&R policy and approved modalities (in lieu of house plots)	700	06	300	00	1006
5	No. of PAF displaced till date	379	06	128	00	513
6	Total Employment approved (in Nos)	298	9	295	17	619
7	Total no. of application submitted by PAP	162	6	224	13	405
8	Total No. of employment and monetary compensation in lieu of employment sanctioned	149	6	224	13	392

**38.1.16: Project Cost:** Total capital cost of the project is 463.07 crores.

**38.1.17: Details of pending litigation:** 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.

**38.1.18: Undertaking/ Affidavit:** PP vide an affidavit dated 09.01.2026 and vide an undertaking dated 12.01.2026 submitted that-

1. Jagannathpur Opencast Project of South Eastern Coalfields Limited, located at village Jagannathpur & Pampapur, Tehsil: Pratappur of District-Surajpur and village Chaura & Paraswarkala, Tehsil: Rajpur of district: Balrampur- Ramanujganj, Chhattisgarh declares that that there is no construction done at the site or the construction done without any deviation as per previous EC obtained (EC. No. J-11015/60/2016-IA.II (M) dated 28/02/2025) for 4.2 MTPA. Jagannathpur Opencast Project of South Eastern Coalfields Limited, located at village Jagannathpur & Pampapur, Tehsil: Pratappur of District-Surajpur and village Chaura & Paraswarkala, Tehsil: Rajpur of district: Balrampur- Ramanujganj, Chhattisgarh declares and agrees that "There is no litigation pending on the project at NGT or any other court of Law under EP Act, 1986, Air Act, 1981 or Water Act, 1974". Jagannathpur Opencast Project of South Eastern Coalfields Limited, located at village Jagannathpur & Pampapur, Tehsil: Pratappur of District-Surajpur and village Chaura & Paraswarkala, Tehsil: Rajpur of district: Balrampur- Ramanujganj, Chhattisgarh declares and agrees that "The land of 662.151 Ha has been acquired under Coal Bearing Areas (Acquisition and Development), Act, 1957 vide

gazette notification S.O. 1935 dated 04.08.2010. Stage-II FC obtained for 119.051 Ha vide F. No vide F.No.8-35/2017 dated 13.04.2018. The land of 660.032 Ha is under possession and R&R status submitted. Jagannathpur Opencast Project of South Eastern Coalfields Limited, located at village Jagannathpur & Pampapur. Tehsil: Pratappur of District- Surajpur and village Choura & Paraswarkala, Tehsil: Raipur of district: Balrampur- Ramanujganj. Chhattisgarh declares and agrees that "There is no difference in the documents submitted i.e., Form 1(Part-A, Part-B & Part-C), EIA/EMP report and presentation being made to the EAC. Jagannathpur Opencast Project of South Eastern Coalfields Limited, located at village Jagannathpur & Pampapur, Tehsil: Pratappur of District-Surajpur and village Choura & Paraswarkala, Tehsil: Rajpur of district: Balrampur- Ramanujganj, Chhattisgarh declares and agrees that "the following reason for submitting the project at MoEF&CC". Jagannathpur Opencast Coal Mine Project of M/s South Eastern Coalfields Limited, is an existing operating Opencast Coal Mine having Environmental Clearance for 4.2 MTPA capacity, in an area of 662.151 Ha, vide MoEF&CC's Letter No. EC. No. J-11015/60/2016-IA. II (M) dated 28/02/2025. Public Hearing has been conducted on dtd 17.03.2017 & 10.02.2017. To meet the increasing demand of power grade coal, Jagannathpur Opencast Coal Mine is hereby submitting online application in Form-1 under Section 7(ii) of EIA Notification, 2006 for expansion upto 40% (2nd phase) in the existing mine lease area of 662.151 Ha under clause 7(ii) as per OM F.No.IA3-22/10/2022- IA.III [E 177258] dtd 11.04.2022 in District Surajpur & Balrampur, Chhattisgarh.

PP vide an undertaking dated 12.01.2026 submitted that Jagannathpur Opencast Project of South Eastern Coalfields Limited, located at village Jagannathpur & Pampapur, Tehsil: Pratappur of District-Surajpur and village Choura & Paraswarkala, Tehsil: Rajpur of district: Balrampur- Ramanujganj, Chhattisgarh declares that the contents (information and data) of the EIA report with the declaration about the contents of the EIA report pertaining to a project have not been copied from other EIA reports. This is to certify that the information provided in Form-1 (Part-A, Part-B & Part-C) in PARIVESH 2.0 to the Ministry/EAC members and PPT presentation during the EAC meeting to be held on 20<sup>th</sup> January 2026 have no deviation in respect of the proposal no IA/CG/CMIN/560674/2025 for EC for coal mining having 662.151 ha of ML area and expansion of capacity from 4.2 MTPA to 4.9 MTPA for Coal Mine Project located at village Jagannathpur, Pampapur, Tehsil Pratappur, District Surajpur, Chhattisgarh, and also covering village Chaura & Paraswarkala, Tehsil Rajpur, District Balrampur, Chhattisgarh by M/s. Jagannathpur Opencast Coal Mine Project, of SECL, Bhatgaon Area. Further certified that there are no data entry errors in the information uploaded in PARIVESH system including names/email-id/mobile numbers/address of the project proponent, authorized person, etc. It is also certified that the supporting documents uploaded on PARIVESH portal are correct and duly authenticated by the Authorized Signatory. In case of any deviation in data found in any of the documents, the Authorized Signatory shall be held responsible and furthermore, the above said project shall be rejected for grant of EC.

#### **Observation and deliberation of the EAC:**

##### **38.1.19: Committee after deliberations noted the following:**

1. Jagannathpur OCP originally accorded EC vide letter no. J-11015/60/2016-IA.II (M), dated 16.02.2018 for production capacity of 3.0 MTPA (Normative) & 3.5 MTPA (Peak) within the lease area of 686.151 Ha. Later another EC for 20% expansion in the production capacity from 3.5 MTPA to 4.2 MTPA within the reduced ML area as per the provisions of Ministry's OM dated 11.04.2022 was obtained via letter dated 28.02.2025 and the same is under implementation. Corrigendum for the EC dated 28.02.2025 was also accorded for discrepancy in the location of the said mine, vide letter dated 30.06.2025.

2. The above mentioned EC is under implementation and the PP has achieved the production of 3.81 MTPA in the FY 2024-25.
3. Instant proposal under consideration is expansion of Jagannathpur Opencast Coal Mine Project from 4.2 MTPA to 4.9 MTPA (Phase – II), within the same ML area of 662.151 ha under para 7(ii) of EIA, 2006 as per MoEF&CC OM dated 11/04/2022 for 20% expansion. Committee observed that the proponent has submitted the compliance of Ministry's OM dated 11/04/2022.
4. The EAC took into consideration the project site through KML file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH.
5. Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment, 2018.
6. The project 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. Wildlife Management Plan have been prepared & duly approved by CG Wildlife Board/PCCF (WL) vide approval letter no. Vanya Prani/Prabandh-412/17/3489 dt 04.07.2017. An amount of Rs. 9,38,50,000/- for the Wildlife Management Plan have been submitted to State Forest Dept on dt 21.11.2017 in CAMPA Account for implementation. Committee opined that the fresh baseline data was carried out in 2024 and the Wildlife Protection Act was amended in 2022. Accordingly the updated Wildlife Conservation Plan, as per the provisions of the Wildlife Protection Amendment Act, 2022 has not been submitted. Committee also observed that, the list of flora and fauna submitted by the PP is not authenticated by the DFO.
7. The project involves forestland of 119.051 Ha and Stage – II forest clearance on the same has been obtained by the proponent vide F.No.8-35/2017 dated 13.04.2018. Total broken forestland as on 30.11.2025 is 41 Ha.  
Committee observed that as per the EC accorded vide letter dated 16.02.2018, forestland involved in the project was 126.431 Ha, on which PP submitted the Stage – I forest clearance at the time of grant of EC letter. However, PP accorded Stage – II forest clearance only on 119.051 Ha vide letter dated 13.04.2018. PP submitted that Application for Forest Land clearance was submitted based on gazette notification S.O. 1935 dated 04.08.2010 under section 9(1) of CBA Act 1957, for 126.431 Ha and Stage-1 FC was issued on 10.11.2017. Later on, the memorandum no. 4687 dt. 05.10.2017 was issued by the Upper Collector Surajpur stating that 7.38 Ha of land converted into tenancy land before year 1980, which was erroneously shown as Revenue Forest land in gazette notification section 9(1) of CBA. Bhu-Adkikar Abhilekh also generated in name of landowners, hence considering the memorandum, Stage-II FC for 119.051 Ha (126.431Ha-7.38Ha) was issued by MoEF&CC on 13.04.2018. The EC was issued on 16.02.2018 wherein, the FC Stage I data ie. 126.431 Ha. Forest Land is mentioned. Inspite of all the above facts, the total ML, area of the project remained unchanged as 662.151 Ha. The same was also recorded in the EC dated 28.02.2025. However, Committee opined that this issue is being raised by the RO in all its inspection reports and PP shall submit the clarity on the same.
8. The mining plan & mine closure plan for the project was approved for 5.25 MTPA by SECL board on 22.11.2024. Life of mine is 9 years (as on 01.04.2025).

9. The total geographical reserves are reported to be 73.18 MT, out of which mineable reserves are 55.89 MT and extractable reserves is 44.125 MT as on 01.04.2025. Percentage of extraction is 100%.
10. The project has 1 external dump (inside the ML area) (area 40 Ha and height 60 m) and 2 internal dumps (area 391.37 Ha and height 60 m above the ground level).
11. Committee deliberated on the method of transportation of coal and observed that currently the coal from pit to surface by dumpers and from surface to siding by tarpaulin covered trucks and from siding to loading by loader. The proposed nearest railway siding for Jagannathpur group of mines is around 5 km. away from Jagannathpur OCP. It is proposed to transport coal by trucks from the project after crushing and meeting the requirements of local customers to the railway siding earmarked for Jagannathpur group of mines. Till commissioning of the proposed railway siding, 4.1 MT of coal will be transported by rail and 1.15 MT coal will be transported by road to local consumers. After commissioning of railway siding 4.725 MT coal will be transported by rail and 0.525 MT coal will be transported by road to local consumers.
12. Committee observed that PP had already diverted a nallah for which it accorded NoC from District Collector vide letter dated 29.12.2022. This aspect was covered in the EIA/ EMP report submitted by the proponent at the time the proposal was submitted for EC accorded vide letter dated 16.02.2018. There is no ASI protected archaeological site present in close proximity to the ML area.
13. Committee deliberated on the baseline data (collected during March 2024 – May 2024), and observed that the AAQ parameters are found to be on the higher side. Committee opined that PP shall focus on extensive plantation activities and dust suppression measures shall be undertaken adequately. In the baseline data, Committee observed that complete details of the heavy metals present in the water is not submitted.
14. The water requirement for the said project is 3435 KLD. The source of water shall be mine seepage water. Ground water clearance obtained from CGWA vide NOC no. CGWA/NOC/MIN/REN/1/2024/10088 dated 24.10.2024. NOC is valid till 03.12.2026. No river/ nallah diversions are proposed for the instant project. However, the Ghongar nala has already been diverted along the mine lease boundary of the project as per EC of 3.5 MTPA dated 16.02.2018. As per Office order no. 3445/F-7-15/31/S-2/2019, Atal Nagar dated 13.07.2022 of Chhattisgarh Water Resource Department, Ministry Mahanadi Bhawan, Naya Raipur Atal Nagar, constituted a committee which was headed by District collector, Surajpur for the approval of Gohangar nallah diversion NOC. In this regard, the NOC obtained for nallah diversion dated 29.12.2022 by Collector, Surajpur, Chhattisgarh. Committee observed that, the NoC being referred is not submitted by the PP. Committee also sought the HFL data of the Hanrur Nadi located at a distance of 2.58 km from the ML area.
15. Committee deliberate on the compliance of public hearing action plan submitted for the public hearing held on 16.02.2018. PP submitted the timeline for completion of activities which are yet to be completed. Committee opined to strictly adhere with the same. The budget proposed for the next 9 years is Rs. 725.1 Lakhs. Committee sought the updated PH action plan along with the physical targets.
16. Further, Committee deliberated on EMP budget submitted by the PP and observed that, the capital cost for environmental protection measures is proposed as Rs. 4122.79 Lakhs and the annual recurring cost towards the environmental protection measures is proposed as Rs. 879 Lakhs/Annum. Committee opined that the same shall be efficiently

implemented in a time – bound manner. Committee observed that the project cost for the instant expansion project is mentioned as Rs. 463.07 Crores. Committee sought the reasons for such capital cost, as there is no change in the ML area and only 0.7 MTPA of production capacity is being enhanced. Also, committee sought the existing and proposed EMP budget with physical targets.

17. Committee deliberated on the plantation activities carried out by the proponent and observed that green belt as part of safety zone has been developed in 35.76 Ha area which is about 5.4% of the total ML area of 662.151 Ha with total sapling of 39650 Trees. Proposed greenbelt will be developed in 57.161 Ha which is about 8.6% of the total ML area. Thus total 183590 trees in an area of 92.921 Ha area (14.03 % of total ML area) will be developed as greenbelt and safety zone. A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt as per CPCB/MoEF&CC, New Delhi guidelines. 7.5 m wide greenbelt is part of safety zone. Local and native species will be planted with a density of 2500 trees per hectare. Gap plantation will be carried out to ensure plantation density of 2500 trees per hectare. Total no. of 13,10,728 saplings will be planted and nurtured in 524.291 hectares in external, internal dump and safety zone.
18. Committee deliberated on the R&R of Jagannathpur, Pampapur, Chaura and Paraswarkala villages located within the ML Area which is proposed to be rehabilitated. Committee opined that the R&R of the said villagers shall be completed at the earliest. Committee further opined that compliance of R&R issues shall be submitted to the Ministry's RO from time to time.
19. Committee deliberated on the certified compliance report obtained by the PP from Regional Office MoEF&CC, Naya Raipur vide letter no. F.No.EC-745/RON/2018-NGP/108 dated 21.11.2025 in the name of M/s. Jagannathpur OCP, SECL Bhatgaon Area. The Action taken report regarding the partially/ non-complied condition was submitted to the Regional Officer MoEF&CC, Raipur vide letter no SECL/BHAT/SAM/JOCP/CCR/2025/2326 dated 01.12.2025.

Committee observed that there is a condition of having Public Liability Insurance, which is not complied by the PP. Committee also observed that this is a constant issue in all the coal mining ECs of M/s SECL and no amendment is being sought by the PP in this regard. Hence it is consistently being reported as non-complied. Committee opined that the PP shall clarify as to why the same is not required.

Also, the instant problem is only being observed in the proposals of M/s South Eastern Coalfields Limited and with no other subsidiary of Coal India Limited. On enquiring the same, M/s Central Mine Planning & Design Institute Limited (CMPDIL), was unable to clarify the same. In addition to the above, CMPDIL is requested to clarify applicability of Public Liability Insurance in the other subsidiaries of Coal India Limited.

Further, as per the observations of the RO, Committee observed that, there is huge quantity of coal stacked within the ML area at different locations and reply of PP does not justify the same. PP should clarify that, why the expansion in production capacity is being sought when there is not consumption of coal. PP shall also clarify about the “proposal for transportation” being talked about in its reply to RO.

During the meeting, PP submitted the, third party Audit Report of IIT – BHU for air and water quality and Riverine/ riparian ecosystem conservation and management plan

report (January 2026) by NEERI, Nagpur. Committee sought a time bound action plan for the recommendations of the same with physical targets.

Further, Committee opined that PP shall submit the status of the retaining wall (which is reported to be completed) along with the geo-tagged photographs.

Committee observed that PP needs to seek amendment in various conditions, Committee opined PP shall submit application for seeking amendment in such condition.

**Recommendations of the Committee:**

**38.1.20:** In view of the foregoing and after detailed deliberations, the committee recommended to *defer* the instant proposal for want of the following additional information:

1. Project proponent shall submit the updated and duly approved Wildlife Conservation Plan for the schedule I species identified in the study area under the Wildlife Protection Amendment Act, 2022.
2. Project proponent shall submit clarification regarding the inconsistency observed in the total ML area and R&R details as mentioned in the EC letters dated 16/02/2018 & 28/02/2025 as stated in the CCR dated 22/12/2025. In addition to this, time bound action plan to comply with the non-conformities reported in the RO report dated 22/12/2025 shall also be submitted.
3. Project proponent shall submit the groundwater clearance obtained from CGWA for the water withdrawal of 3435 KLD.
4. Project proponent shall submit the HFL data of Hanrur Nadi.
5. Project proponent shall submit the revised action plan with physical targets to address the concerns/issues raised during Public Hearing
6. Project proponent shall revisit the capital cost for the instant expansion project, capital and recurring cost earmarked for the implementation of Environment Management Plan.
7. Project proponent shall submit the reasons for not obtaining Public Liability Insurance under PLI Act till date. The details of accidents occurred due to handling of explosives since the inception of the mine and the compensation paid to the affected people if any shall be submitted as the proponent has not yet obtained PLI policy.
8. As per the observations of RO in the CCR, huge quantity of coal stacked within the ML area at different locations. Proponent is requested to submit the details of coal stacked within the ML area with geo-tagged photographs, reasons for storing such quantity along with its evacuation plan with timelines.
9. Project proponent shall submit the time bound action plan along with the physical target for the recommendations of the third party Audit Report of IIT – BHU for air and water quality and Riverine/ riparian ecosystem conservation and management plan report (January 2026) by NEERI, Nagpur.

10. Project proponent shall submit the time bound action plan of plantation to be done especially in safety zone and green belt all along the boundary of ML area within a time frame of next 5 years.
11. Project proponent shall submit the status and geo-tagged photographs of the retaining wall along the OB dump.
12. Project proponent shall revisit the modelling results of AAQ as the GLC concentration reported for PM and NOx parameter is appears to be on higher side.

**Agenda no. 38.2:**

38.2: Expansion of Dhuptala Opencast Coal Mine Project (Increase in production capacity from 1.7 MTPA to 2.5 MTPA in ML area of 1013.83 ha) by **M/s Western Coalfields Limited**, located in Village: Sasti; Tehsil: Rajura; **District: Chandrapur; State: Maharashtra- Environmental Clearance-reg.**

**[Online Proposal No. IA/MH/CMIN/560492/2025; Consultant: CMPDIL; NABET/EIA/25-28/RA 0412 valid till 08/04/2028]**

**38.2.1:** M/s. Western Coalfields Limited has made an online application vide proposal no. IA/MH/CMIN/560492/2025 dated 16.12.2025 along with copy of EIA/EMP report, CAF, Form and Certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no. (1) a under Category “A” of the schedule of the EIA Notification, 2006 and does not attract general condition and is appraised at Central Level.

Dhuptala expansion OC mine is proposed for increase in production capacity from 1.7 MTPA to 2.5 MTPA in ML area of 1013.83 ha and is located in village: Sasti; Tehsil: Rajura; District: Chandrapur; State: Maharashtra.

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

**38.2.2 Details of Previous approvals in chronological order:** PP submitted the details of previous approvals in the chronological order as follows:

S. No.	Details of Letter no.	EC/Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC/	Capacity (MTPA)	Area (ha)	Date of issuance	Status of implementation
1	J-11015/538/2008- IA.II(M)	EC	1.70	1300.91	10.01.2013	Being implemented

**38.2.3 Production details of the existing EC:** PP submitted the actual production details of the concerned mine and Informed that the mine became operational from May'2022 onwards based on the CTE granted by MPCB vide consent order no: Format 1.0/ BO/CAC-Cell/BIC No. CH-1712-15/CAC-10175, dt.07.10.2016 valid up to Commissioning of Unit. Further, the Consent to Operate renewal has been obtained from the MPCB and is valid up to 31.03.2026. The details of the production are as follows

Financial Year	Actual Coal Production (MTPA)	Planned coal production in MTPA as per Environmental Clearance	Excess production
2022-2023	0.70	1.70	NIL
2023-2024	1.68	1.70	NIL
2024-2025	1.70	1.70	NIL

**38.2.4 Certified Compliance Report:** The status of compliance of earlier EC was obtained from the Regional Office, IRO, MoEF&CC, Nagpur vide letter no. EC-2528/RON/2024NGP/14422, dated: 01.07.2025 in the name of Dhuptala expansion OC, M/s Western Coalfields Limited after conducting field visit on 10.06.2025.

The Action Taken Report regarding the partial conditions was submitted to Regional officer MoEF&CC vide letter no. WCL/BA/SAM/SSA/2025-26/1483, dated 22.07.2025. Out of the 39 Environmental Clearance conditions, three conditions were found to be partially complied. The details of the observations made by RO in the report dated 01.07.2025 along with its re-assessment/ present status as furnished by the PP is given as below.

S. No.	Partially Compliance Details	Observation of RO (Abridged)	Condition no			Response by PP
			EC date	Specific	General	
1	Dimensions of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.	PP has not provided retaining wall. Instead PP has constructed garland drains around the periphery of dumps. PP to ensure the cleaning of drains every year before the onset of monsoon. In addition, once the dumps get inactive, biological reclamation shall also be carried which will further arrest flow of silt and sedimentation from Ob dumps	10.01.2013	v		Catch drains of 3.5 m x 1.5m dimensions have been constructed along the periphery of the existing OB dumps, covering a length of 5.11km, to arrest silt. These drains are cleaned as required and prior to the onset of the monsoon season. Additionally, a siltation pond measuring 38 m x 24m x 1.5m has been provided to capture silt from mine drainage. During operations are being carried out in a scientifically engineer manner, with proposer slope maintenance. A stability analysis of the pit and overburden dump slopes has been conducted by IIEST, Shibpur, West Bengal. Furthermore, once the dump becomes inactive, biological reclamation will be undertaken to enhance the stability of the OB dump.
2	Crushers of CHP of adequate	Partially complied.		vi		There is no CHP in operation. Mobile crusher has been deployed.

S. No.	Partially Compliance Details	Observation of RO (Abridged)	Condition no			Response by PP
	capacity for the expansion project shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emission from crushing operations, conveyor system, haulage road, transfer points etc.,	PP does not have CHP. PP has a mobile crusher. PP has provided dust control measures at crusher, haulage roads and transfer points to check fugitive emission. As per the observations made during the last visit, PP procured trolley mounted fog cannons and installed sprinklers at weighbridge.				Various dust control measures at mobile crusher to check fugitive emission. a) 4 nos of trolley mounted mist fogger machine to control fugitive dust emission. b) Truck mounted sweeping machine have been deployed to curtail dust emission. c) 16 nos rain guns have been installed around coal stock yard for dust suppression. d) Automatic Tyre wash system has been commissioned. e) We have deployed 4 nos. Mobile water tankers of 1 no 20 KL and 3 nos 15KL f) Wind barrier of 421 m length and 3m height have been installed along the coal stock yard. Photos of dust control measures are provided to IRO, MoEF&CC along with ATR.
3	A copy of EC will be marked to concerned panchayat/ local NGO, If any, from whom any suggestion. Representation has been received while processing the proposal	A copy if the EC will be marked to concerned panchayat/local NGO, if any, from whom any suggestion. Representation has been received while processing the proposal.				xiv EC has been marked and receiving letter has been received from nearby Gram Panchayats. Copy of the letter has been submitted to IRO, MoEF&CC along with ATR.
Other observations/suggestions given by IRO, MoEF&CC						
4		PP should go for Miyawaki plantation	-	-	-	Miyawaki Plantation of 2ha is under process at Dhuptala OC. It is scheduled to be completed by Feb'2026. The work order has been issued to DFO, social forestry Chandrapur on 27.12.2025. PP has submitted the workorder.

S. No.	Partially Compliance Details	Observation of RO (Abridged)	Condition no			Response by PP												
5		PP should ensure timely submission of the Environment statement and six monthly compliance report	-	-	-	PP is committed to ensure timely submission of upcoming environment statement and six monthly compliance report. Environment statement for FY 2024-25 has been submitted on 30.09.2025. Also, latest six monthly for period of April'2025 to Sep'2025 have been submitted to IRO, MoEF&CC on 25.11.2025. All the reports are available in the WCL website.												
6		PP should ensure compliance of the conditions on greenbelt development, solar energy utilization usage of water conservation etc.,				<p>As on 31.03.2025, plantation activities at Dhoptala mine have been carried out over 98.35 ha, with a total of 3,87,125 saplings planted. Each planting is followed by a four-year maintenance period. The plant species include Shishu, Imli, Jambhul, Awala, Neem, karan, Bamboo, Raintree, Arjun, among others. It is pertinent to mention that out of 98.35 ha, over 57.6 ha of land have been planted with 171500 saplings on the External OB dump and embankment.</p> <p>Future Progressive plantation to be carried out in next 5 years is as follows</p> <table border="1"> <thead> <tr> <th>FY</th><th>Proposed Plantation (ha)</th></tr> </thead> <tbody> <tr> <td>2026-27</td><td>8.00s</td></tr> <tr> <td>2027-28</td><td>13.0</td></tr> <tr> <td>2028-29</td><td>25.00</td></tr> <tr> <td>2029-30</td><td>10.00</td></tr> <tr> <td>2030-31</td><td>5.00</td></tr> </tbody> </table> <p>Further Miyawaki of 2ha is being carried out and scheduled to be completed by Feb'2026.</p>	FY	Proposed Plantation (ha)	2026-27	8.00s	2027-28	13.0	2028-29	25.00	2029-30	10.00	2030-31	5.00
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2028-29	25.00																	
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2030-31	5.00																	
7		PP should improve Signage for convenience of				Signages have been provided at key locations in the mine to make the												

S. No.	Partially Compliance Details	Observation of RO (Abridged)	Condition no			Response by PP
		workers to further enhance their safety.				work force aware of the safety measures. Photos of the same has been submitted to IRO along with ATR.
8		PP has not provided retaining wall. Instead PP has constructed garland drains around the periphery of dumps. PP to ensure the cleaning of drains every year before the onset of monsoon. In addition, once the dumps get inactive, biological reclamation shall also be carried which will further arrest flow of silt and sedimentation from Ob dumps				Catch drains of 3.5 m x 1.5m dimensions have been constructed along the periphery of the existing OB dumps, covering a length of 5.11km, to arrest silt. These drains are cleaned as required and prior to the onset of the monsoon season. Additionally, a siltation pond measuring 38 m x 24m x 1.5m has been provided to capture silt from mine drainage. During operations are being carried out in a scientifically engineer manner, with proposer slope maintenance. In addition, once the dump becomes inactive, biological reclamation will be undertaken to enhance the stability of the OB dump.
9		Black topping of remaining roads/ repairing of the roads shall be completed and reported with the next six monthly compliance report.				The complete coal transportation road from coal stock yard to Ballarpur railway siding of 4.8 km have been black topped. Further, from there the dispatch is done via rail mode, Regular maintenance of the roads is done as per requirement.

### 38.2.5 Environmental Site Settings:

The Mine lease area is covered under Survey of India Topo sheet No. 56 M/5 and is bounded by the geographical coordinates ranging from Latitude: 19° 47' 59.68" N to 19° 51' 9.49" N and Longitude: 79° 18' 27.15" E to 79° 21' 18.52" E.

Project does not fall in the Critically Polluted Area (CPA)/Severely Polluted Area (SPA), as per CEPI assessment 2018 and the correspondence letter in this regard from MPCB has been obtained vide letter dated 15.12.2025.

**Forest Area:** PP submitted that the project doesn't involve forest land. Hence, PP further submitted that there is no broken forestland and no violation of Van (Sanrakshan Eevam Samvardhan) Adhiniyam, 1980.

**Protected Area:** The project is not located within 10 KM of any ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/elephant corridor etc. as per the correspondence obtained from the State Forest department vide letter no:960 dated 30.10.2024. As per the information received from forest department, there is telemetry state tiger corridor passing through the project area. Thus an application for wildlife clearance has also been made by Project Proponent vide proposal number **WL/MH/MIN/QRY/511294/ 2024 on 12.02.2024**. Further, it is pertinent to mention that as per 'KML' file available at NTCA portal for visualization of protected areas, tiger reserves and corridors, the proposed Dhuptala expansion project doesn't fall within any tiger reserve, tiger corridor, or protected area. Further, as per the letter dt.20.08.2025 issued by the Inspector General of Forests, NTCA addressed to the chief wildlife wardens of all Tiger range (Relevant documents area submitted by PP), it has been stated that ".... The states should preferably adhere to those corridors, which have been identified from the aforementioned two sources under the aforesaid provisions of the wildlife (Protection) Act, 1972...". The corridors referred in the above communication are those identified in the document titled "Connecting tigers for long term conservation" & the notified tiger reserves under section 38(v) of the wildlife protection Act, 1972. It is pertinent to mention that, Dhuptala expansion OC doesn't fall within the identified corridors requiring wildlife clearance. **However, for further clarification, correspondences has been made to NTCA, and a response is presently awaited.**

There is presence of Schedule – I species in the study area (namely - *Panthera Pardus*, *Panthera tigris*, *Bos gaurus*, *Pavo cristatus*, *Canis aureus*, *Melursus ursinus*, *Python molurus*, *Cuon alpinus*, *Naja Naja*, *Ptyas mucosa*, *Felis Chaus*, *Hystrix indica*). The wildlife conservation plan of Dhuptala expansion OC has been approved by PCCF, wildlife for an amount of Rs. 928.50 Lakhs, vide letter dated 08.09.2025.

**Mining lease documents:** The details of the mine lease, as provided by PP, are as follows. It has also been informed that there no land is proposed outside the mine lease area.

S. No.	Mode of land acquisition	Notification number and date	Total area (in ha)
1	Coal Bearing Areas (Acquisition and Development) Act,1957	S.O.209, Dt.02.01.1984	676.37
2	Coal Bearing Areas (Acquisition and Development) Act,1957	S.O.284 (E) Dt.27.01.2015	
3	Maharashtra Land Revenue Code,1966	No.46/37/1982-83, Dt.21.03.1983	145.30
4	Coal Mines Nationalisation Act, 1973.	Reflected in 7/12 revenue records Dt.27.08.2022	28.35
5	Land Acquisition Act, 1894	Final award by state Government of Maharashtra Dt.16.06.1994	66.69
6	Land Acquisition Act, 1894	Final award by state Government of Maharashtra Dt.20.06.2008	23.49
7	Direct purchase	19.09.1991,06.06.1982,06.02.1984, 17.03.1986,18.03.1986,20.10.1982, 20.03.1983,21.01.1991,16.09.1991 ,04.09.1991,29.04.1993,06.02.2004, 27.03.1995,31.03.1995,21.08.1995, 29.04.1997,26.05.1997	72.80

**Other sensitive receptors**

Project site proximity to sensitive area		Distance in km (within 5 km from the ML area)																																																								
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		Particulars	Distance (km)	Direction
		NH-353 B	2.0	E
		NH-930 D	2.0	NE
<b>Hospitals:</b>				
		Particulars	Distance (km)	Direction
		WCL Ballarpur Area hospital	1.13	S
		Ballarpur Colony Hospital	1.45	NE
		Railway Hospital, Ballarshah	1.66	NE
		Government Hospital, Ballarpur	2.71	NE
		Government Hospital, Rajura	3.2	S
		Rural Hospital, Visapur	3.55	NE
<b>Nearby Coal Mines:</b>				
		Particulars	Distance (km)	Direction
		Sasti OCP	West- Along the mine boundary	
		Ballarpur OC	0.63	NE
		Gauri-Pauni OC	3.66	W
		Gauri Deep OC	4.89	SW
		Pauni-II OC	7.52	W
Ballarpur paper Mill – 2.50 km				
Ballarpur Railway station- 2.7 km				

Details of diversions proposed or previously diverted:

1. Diversion of Dhuptala nallah and a seasonal nallah is involved. The tentative proposed diversion length is 4.2 km. It is pertinent to mention that, diversion will be carried out in accordance with the approval of state irrigation department. It is pertinent to mention that diversion of Nallah is required after two years in 2027-28 i.e after 5<sup>th</sup> year from starting of the mining operations of the mine (2022-23).
2. There are also diversions of the following:
  - a) Diversion of village road: Diversion for 5.25 km long PWD road and 3.75 km village road of Stratum 'D' and 'A' respectively with culverts, drains etc have been proposed. It is pertinent to mention that one of the kolgaon village road has been diverted with the approval of PWD department (diversion length- 3.90km), the approval copy from PWD department is submitted by PP.
  - b) Diversions of Electric line: Four nos. of 11 kV electric lines of MSEB and WCL and one no of 66 kV electric lines are passing over the proposed quarry area which needs to be diverted. PP informed that diversions will be done with the approval of the concerned state authorities.

Mitigation measures proposed in respect to the diversion of nallah

- a. The protective measures will be implemented for protection of diverted water courses by promoting

- Biodiversity through tree plantations of native species like Dalbergia Sisoo (Shisam), Pongamia Pinnata (Karanj), Butea Monosperma (Palas), Acacia Catechu (Khair) , Mangifera indica (Amba), Imli (Tamarindus indica)etc.,

- Encouraging growth of grass- plant soil binding grasses like khus and vetiver to prevent soil erosion.

b. PP also submitted the Present protective measures in place:

For protection of river & mine from inundation, two embankments has been constructed – one along the Wardha river at N-E and one along the existing Dhuptala Nallah in the southern side. The existing embankment details along the nallah and river is depicted in the picture below.

S. no.	Details	Dimensions	Remarks
1	Embankment along the Quarry area at N-E	Length- 2.53 km Reduced level- 185m Top width- 30m	Embankment is stabilised with approx. 80 ha of plantation.
2	Embankment along Dhuptala nallah	Length-2.7 km Reduced level- 185m Top Width- 30m	

Further, catch drains along periphery of existing OB dump are provided for arresting the silt and are maintained before the onset of monsoon.

### 38.2.6: Details of ToR:

Date of Application	Details	Date of Accord	ToR validity
07.07.2023	J-11015/538/2008-IA-II(M)	30.08.2023	29.08.2027

**38.2.7: Method of Mining and Mine Plan:** Mining plan along with mine closure plan for the Dhuptala Opencast Coal Mine Project has been approved by the board of M/s WCL vide WCL/Office of CS/BM-380/2025-26/712, dated 06.10.2025:

1. Method of Mining to be adopted shall be Open Cast Mining. The Capacity of the mine applied for peak capacity as per approved mining plan is 2.5 MTPA.
2. Excavation of coal and removal of overburden is through Shovel dumper combination.
3. Total geological reserve reported in the mine lease area is 69.63 MT with 53.11 MT Mineable reserve. Out of total mineable reserve of 53.11 MT, 53.11 MT area available for extraction. Percent of extraction is 100%.
4. There is one composite seam with thickness ranging from 12.77 m to 17.18 m are workable.
5. Grade of Coal is G-11 and Stripping ratio is 5.26 cum/ tonne (Avg), while gradient is 1 in 10 to 1 in 18.
6. Remaining Life of mine is 22 years as on 01.04.2025.
7. **Top soil management details:**
  - i. There is one top soil dump which will accommodate the top soil generated 27.89 Mm<sup>3</sup>
  - ii. Topsoil shall be stored in external topsoil dump and shall be rehandled.
  - iii. The topsoil generated will be carpeted over the external and internal OB dumps for utilization.

### 8. Details of OB dumps

a) Dump details:

Details	Internal dumps		External dumps		Embankment		Remarks
	Nos.	Quantity of waste/ OB stored (Mm <sup>3</sup> )	Nos.	Quantity of waste/ OB stored (Mm <sup>3</sup> )	Nos.	Quantity of waste/ OB stored (Mm <sup>3</sup> )	
Existing (As on 01.04.2025)	0	0.00	2*	25.906	1	2.247	No
Proposed	2#	137.97	2*	121.984	0	3.753	No
Total	2#	137.97	2*	147.89	1	6	

# out of total 137.97 Mm<sup>3</sup>, 51.17 Mm<sup>3</sup> is proposed to be backfilled after 18<sup>th</sup> year of operations in the proposed/ upcoming Ballarpur N-W OC and 86.7 Mm<sup>3</sup> is proposed to be backfilled within Dhuptala expansion OC from 8<sup>th</sup> year of operations.

\*At present, there is one existing external OB dump with an approximate height of 58 m (as on 01.04.2025). The same dump will continue to be utilized for the remaining overburden dumping until it attains a maximum height of 90 m.

\*At present, there is one BC soil dump with an approximate height of 15 m (as on 01.04.2025). The same dump will be further utilized until it reaches a maximum height of 30 m.

b) Specification of each dump:

Dumps no.	Area (Ha)	Height (m)	Quantity (Mm <sup>3</sup> )	Type (Internal/ external)
External Dump	198.3	90	120.00	External
BC soil dump	57	30	27.89	External
Internal dump In Dhuptala OC	88	90	86.70	Internal
Internal dump in proposed Ballarpur N-W OC (after 18 <sup>th</sup> year of operations)	8.97#	90	51.27	Internal of proposed Ballarpur N-W OC
Embankment	60	HFL+6	6.00	External

# Not a part of the total mine lease area of Dhuptala OC (1013.83 ha)

## 9. Land use details

### i. Pre-mining land use details:

S.no	Land Use	Within ML Area(ha)	Outside ML Area (ha)	Total
1	Agricultural land	964.58	-	964.58
2	Forest land	-	-	-
3	Wasteland	49.25	-	49.25
4	Grazing land	-	-	-
5	Surface water bodies	-	-	-
6	Settlements	-	-	-
7	Others (specify)	-	-	-
	<b>Total</b>	<b>1013.83</b>	<b>0.00</b>	<b>1013.83</b>

### ii. Post-mining land use details:

Post Mining land use (up to 28 <sup>th</sup> year)				
S. no.	Type	Total Area (Ha)	Reclaimed Area (Ha)	Un-reclaimed Area (Ha)
1	Excavation / Quarry			
	A. Backfilled area	103.00	103.00	0.00
	B. Excavated Void	282.68	0.00	282.68

Post Mining land use (up to 28 <sup>th</sup> year)				
S. no.	Type	Total Area (Ha)	Reclaimed Area (Ha)	Un-reclaimed Area (Ha)
2	External Dump including top soil dump	255.30	255.30	0.00
3	Roads	5.0	1.00	4.0
4	Nala diversion	15.00	0.00	15.00
5	Flood protection embankment	60.00	2.00	58.00
6	Areas around buildings and infrastructure	45.00	10.00	35.00
7	Undisturbed area	117.85	60.00	57.85
8	Green Belt	130.00	130.00	0.00
<b>Total</b>		<b>1013.83</b>	<b>561.30</b>	<b>452.53</b>

#### 10. Details of Transportation of coal

- In pit to surface: By tippers
- Surface to Siding: The distance from the mine surface to the Ballarpur railway siding is approximately 4.5 km and the coal is being transported by dumpers/tippers.
- Siding to loading: Loading of coal on to railway rakes is carried out using pay loaders at the Ballarpur railway siding. This 4.5 km road is a dedicated coal transportation road.
- Quantity being transported by Road/ rail/ conveyor/ ropeway: The entire quantity of coal is transported by road over a distance of 4.5 km up to Ballarpur railway siding and thereafter by rail to the consumers.
- Proposed change in transportation means if any, give details
  - Existing- 4.5km by road up to Ballarpur railway siding.
  - Proposed- 4.5km by road up to Ballarpur railway siding.

#### 11. Reclamation: Total Afforestation plan will be implemented covering an area of 561.30 ha at the end of mine closure. This will include the following:

- Reclaimed external OB dump: 255.30 ha
- Internal dump: 103.00 ha
- Green belt: 130.00
- Density of tree plantation: 2500 plants per ha
- Void of 282.68 ha at a depth of 150 m is proposed to be converted into waterbody.
- 73 ha (1 ha along the roads, 2 ha on the embankment, 10 ha around the infrastructure areas, and 60 ha in undisturbed area) will be reclaimed through plantation

#### 38.2.8: Baseline Data:

Period: March 2023 – June 2023	Parameters					
AAQ parameters at 12 Locations (min and max)	Parameter (in $\mu\text{g}/\text{m}^3$ )	Buffer zone		Core Zone		
		From	To	From	To	
		PM <sub>10</sub>	39	87	65	177
		PM <sub>2.5</sub>	16	45	21	45
		NOx	7	14	6	15
	SOx	Values are found to be below $<10 \mu\text{g}/\text{m}^3$		Values are found to be below $<10 \mu\text{g}/\text{m}^3$		
The heavy metals values are found to be very low and negligible. The heavy metals like Arsenic (As) and Mercury (Hg) and other metals like and						

Period: March 2023 – June 2023	Parameters																																	
Incremental GLC Level (Maximum)	<table border="1"> <thead> <tr> <th rowspan="2">Parameter (in <math>\mu\text{g}/\text{m}^3</math>)</th> <th colspan="2">Buffer zone</th> <th colspan="2">Core Zone</th> </tr> <tr> <th>Incremental</th> <th>Total GLC</th> <th>Incremental</th> <th>Total GLC</th> </tr> </thead> <tbody> <tr> <td>PM<sub>10</sub></td><td>5.09</td><td>90.99</td><td>32.56</td><td>194.56</td></tr> <tr> <td>PM<sub>2.5</sub></td><td>0.34</td><td>43.34</td><td>4.56</td><td>41.56</td></tr> <tr> <td>NOx</td><td>7.20</td><td>15.20</td><td>30.11</td><td>45.11</td></tr> <tr> <td>SOx</td><td>0.34</td><td>&lt;10.34</td><td>1.43</td><td>&lt;11.43</td></tr> </tbody> </table> <p>The observed pollutant levels were compared with CPCB National Ambient Air Quality Standards and found to be within limits with control measures.</p>					Parameter (in $\mu\text{g}/\text{m}^3$ )	Buffer zone		Core Zone		Incremental	Total GLC	Incremental	Total GLC	PM <sub>10</sub>	5.09	90.99	32.56	194.56	PM <sub>2.5</sub>	0.34	43.34	4.56	41.56	NOx	7.20	15.20	30.11	45.11	SOx	0.34	<10.34	1.43	<11.43
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Ground water quality	<p>The ground water quality has been conducted at Sasti village (Core Zone), Rampur Village, Mathara Village &amp; Kadholi village (Buffer zones).</p> <table border="1"> <thead> <tr> <th rowspan="2">Parameters</th> <th colspan="2">Core zone</th> <th colspan="2">Buffer Zone</th> </tr> <tr> <th>Min</th> <th>Max</th> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>PH</td><td>7.03</td><td>7.23</td><td>7.03</td><td>7.72</td></tr> <tr> <td>TDS</td><td>1020</td><td>1090</td><td>752</td><td>1090</td></tr> <tr> <td>Chlorides</td><td>80</td><td>90</td><td>80</td><td>192</td></tr> <tr> <td>Fluoride</td><td>0.38</td><td>0.48</td><td>0.36</td><td>0.82</td></tr> </tbody> </table>					Parameters	Core zone		Buffer Zone		Min	Max	Min	Max	PH	7.03	7.23	7.03	7.72	TDS	1020	1090	752	1090	Chlorides	80	90	80	192	Fluoride	0.38	0.48	0.36	0.82
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Surface water quality	<p>The surface water samples have been collected from upstream and down-stream of Wardha river, Gauri Nallah and Mathra Nallah.</p> <ul style="list-style-type: none"> <li>• PH of surface water samples lie in the range of 7.59 to 8.45</li> <li>• DO values of surface water samples lie in the range of 4.9 to 6.1 mg/l.</li> <li>• TDS values of surface water samples lie in the range of 330 mg/l (u/s) to 450 mg/l (d/s).</li> <li>• BOD concentration of surface water samples lie in the range of 1.8 mg/l to 4.2 mg/l</li> </ul>																																	
Noise levels Leq (Day and Night)	<p>Core zone:</p> <p>Day time: 4.27 dB(A) to 56.8 dB(A)</p> <p>Night time: 41.8 dB(A) to 55.9 dB(A)</p> <p>Buffer Zone</p> <p>Day time: 41.5 dB(A) to 45.7 dB(A)</p> <p>Night time: 39.1dB(A) to 43.9 dB(A)</p>																																	
Traffic assessment study findings	<p>The traffic study has been conducted along the coal transportation road of 4.5 km up to Ballarpur railway siding.</p> <p>Transportation of mineral will be done 100% by road cum rail.</p> <p><b>Existing PCU/hr</b></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>BT road</td> <td>315</td> <td>1500</td> <td>0.21</td> <td>B</td> </tr> </tbody> </table> <p><b>Proposed PCU/hr</b></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>BT road</td> <td>339</td> <td>1500</td> <td>0.23</td> <td>B</td> </tr> </tbody> </table>					Road	V (Volume in PCU/ hr)	C (Capacity in PCU/hr)	Existing V/C Ratio	LOS	BT road	315	1500	0.21	B	Road	V (Volume in PCU/ hr)	C (Capacity in PCU/hr)	Existing V/C Ratio	LOS	BT road	339	1500	0.23	B									
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Flora and fauna	<p>Yes, there are 12 no of schedule-I species in the study area viz., Panthera Pardus, Panthera tigris, Bos gaurus, Pavo cristatus, Canis aureus, Melursus ursinus,</p>																																	

Period: March 2023 – June 2023	Parameters													
	<p>Python molurus, Cuon alpinus, Naja Naja, Ptyas mucosa, Felis Chaus, Hystrix indica.</p> <p>The wildlife conservation plan of Dhuptala expansion OC has been approved by PCCF, wildlife for an amount of Rs.928.50 Lakhs (Relevant copy has been submitted by PP)</p>													
Water Requirement	<p>Source of water: Mine seepage water</p> <p>Ground water intersection:</p> <table border="1"> <thead> <tr> <th colspan="3">Water Level (mbgl)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Pre-Monsoon</td> <td>Core zone</td> <td>5.10 mbgl to 6.80 mbgl</td> </tr> <tr> <td>Buffer Zone (Area between 2 to 10 km radius)</td> <td>1.80 mbgl to 9.7 mbgl</td> </tr> <tr> <td rowspan="2">Post monsoon</td> <td>Core Zone</td> <td>3.70 mbgl to 5.4 mbgl</td> </tr> <tr> <td>Buffer Zone (Area between 2 to 10 km radius)</td> <td>2.2 mbgl to 7.00 mbgl</td> </tr> </tbody> </table> <p>Water requirement: Total 1937 m<sup>3</sup>/day</p> <ul style="list-style-type: none"> <li>Industrial: 1177 m<sup>3</sup>/day</li> <li>Domestic: 760 m<sup>3</sup>/day</li> </ul>	Water Level (mbgl)			Pre-Monsoon	Core zone	5.10 mbgl to 6.80 mbgl	Buffer Zone (Area between 2 to 10 km radius)	1.80 mbgl to 9.7 mbgl	Post monsoon	Core Zone	3.70 mbgl to 5.4 mbgl	Buffer Zone (Area between 2 to 10 km radius)	2.2 mbgl to 7.00 mbgl
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	Buffer Zone (Area between 2 to 10 km radius)	2.2 mbgl to 7.00 mbgl												

**38.2.9: Details of Water Requirement:** PP has submitted that the water requirement for the said project is 1937 KLD. Source of water shall be Mine seepage water. The project has granted NOC by CGWA, New Delhi vide no. CGWA/NOC/MIN/REN/1/2025/11875, Dated 24.09.2025 valid from 19.09.2024 to 18.09.2026.

PP has submitted that, Dhuptala nallah is flowing through the mine lease area and is proposed for diversion. Further informed that, that diversion of Nallah is required after two years in 2027-28 i.e after 5<sup>th</sup> year from starting of the mining operations of the mine (2022-23). The non-diversion of Nallah will hamper in extraction of approx. 12 Million tonne of coal reserves in south-east of the project. The Nallah will be diverted after obtaining approval of state Irrigation department of Maharashtra and due communication to MoEF&CC. The details of correspondences with state irrigation and CDO, Nashik are submitted by PP.

#### 38.2.10: Public hearing details:

Details of Advertisement given	In Two Newspapers- Times of India, Loksatta on 26.04.2025
Date of Public Consultation	02.06.2025
Venue	Manoranjan Kendra, Sasti Colony, WCL, Tehsil- Rajura, Dist. Chandrapur, Maharashtra
Presiding Officer	Additional District Magistrate
Number of persons attended public hearing	162 (approx.)
No. of representations received in writing from the district and outside the district, please give details	09- Written representative received
Major Issues raised	<ol style="list-style-type: none"> <li>Land compensation</li> <li>Blasting issues</li> <li>Basic Amenities such as Drinking water supply, health check up</li> <li>Plantation activities</li> <li>Reduction in ground water level</li> <li>Dust suppression measures</li> </ol>

	7. Installation of CAAQMS for air quality check.
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Action plan as per MoEF&CC OM. Dt.30.09.2020

Additional Measures Under PH Action Plan	Tentative expenditure					Total
	2026-27	2027-28	2028-29	2029-30	2030-31	
Plantation within mine lease (Mixed Plantation (61 ha) & Miyawaki Plantation (2ha) in FY 26-27, Bamboo plantation (1 km) FY 2026-27 along the coal transportation road)	317.46	268.75	107.5	53.75	86	833.46
Distribution of Grafted Fruit Bearing Saplings in the public places including schools, community centres, R&R site etc. (Sasti village, Dhoptala Village, Manoli, Rampur & Kolgaon Villages) – 7500 nos saplings each year.	4	4	4	4	4	20
Infrastructure development (Roads/ Drainage/ Sheds/ solar lights etc. at different villages based on requirement) in Dhoptala Village, Rampur Village, Kolgaon Village	200	200	200	200	200	1000
Rejuvenation/beautification of water bodies – 4 nos (Sakhari pond, Dhoptala pond, Mathra pond etc.,)	20	15	20	15	10	80
Installation of RO plant or purifiers (Capacity - 1000 Liters/Hour) in 6 nos of villages (Sasti, Rampur, Gauri, Chincholi, Antargaon, Kalmana)	23	13	23	13	13	85
Activities for female empowerment (like tailoring activities, Computer Literacy, Beauty Parlor Training etc) for Villagers of Sasti Village, Dhoptala Village, Rampur Village and Kolgaon Village (50 beneficiaries each Year)	0.5	1	0.5	1	0.5	3.5
Skill development training in various trades i.e. Electrician, Welder, HMV, Fitter etc. for 25 beneficiaries alternate year for residents of Sasti Village, Manoli Village, Kolgaon Village, Rampur, Dhoptala Village etc	4	0	4	0	4	12
Installation of Bore wells at 2 no's of villages (Dhoptala village & Rampur village)	7.5	0	7.5	0	0	15
Installation of Rain water harvesting structures at 3 nos– Gauri , Rampur , Dhoptala villages.	4	0	4	0	4	12
Conducting health camps with Health Consultation including check-ups, pathological tests, and basic medicines Distribution – 8 nos villages- Sasti, Dhoptala , Rampur, Mathra, Kolgaon, Pauni, Gauri, Chincholi	10	10	10	10	10	50
Deployment of mobile water tankers/ Air quality monitoring station (in FY 2026-27 & in FY 2028-29)/ Sprinklers proposed in FY 2026-27 along entire Coal Transportation Route of 4.50 Kms	100	20	80	20	20	240
<b>Total Cost in Rs. Lakhs</b>	<b>690.46</b>	<b>531.75</b>	<b>460.5</b>	<b>316.75</b>	<b>351.5</b>	<b>2350.96</b>

**38.2.11: Project cost and EMP cost:** Existing Capital cost of the project was Rs. 985.70 Lakhs (Written Down Value). The capital cost proposed project is Rs.71100.93 Lakhs i.e the total cost of the project is Rs.72,086.63 Lakhs.

The capital cost for environmental protection measures is proposed as Rs.375.00 Lakhs (Approx.). The employment generation from the proposed project/ expansion is 412 nos. Approx. (permanent) and approximately 261 nos. by contractual HEEM operators. The details of cost for environmental protection measures is as follows:

S. No.	Description Item	Existing (In lakhs)		Proposed (Rs. Lakhs)	
		Capital Cost	Recurring Cost	Capital Cost	Recurring Cost
1	Air Pollution Control / Noise management	99		50	<p>a. Rs.3186.6 lakhs for total life of the mine.(including recurring cost under revenue head @ Rs. 6/- per tonne ) i.e Rs.127.46 Lakhs/ Annum</p> <p>b. The expenditure of wild life conservation plan is Rs.928.50 Lakhs for ten years.</p>
2	Water Pollution Control	70		225	
3	Environmental Monitoring and Management		30	70	
4	Green belt and Plantation development		63		
5	Other Heads as proposed in EIA/ committed during EAC				
6	CER	-	-	0.00	2350.96 (for five years)
7	Additional Scientific studies			30	
Total		169	93	375	6466.06

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

S. No.	Type of waste	Source	Quantity (TPA)	Mode of treatment	Disposal	Remarks
1	Household waste	Colony	502	Sewage Treatment plan	Municipality	Capacity of STP- 1MLD
2	ETP Sludge	ETP	10	Through CHWTSDF	Road	
3	E-Waste	Various electronic equipments at the office premises	1	Through surveying off to Qualified Parties	Through surveying off to Qualified Parties	
4	Contaminated oil	oil	2	Authorised recycler	Road	

### 38.2.13: Power requirement and details of Diversion of Hi-Tension/ Transmission Line:

Total power Requirement for the said project is 6 MW. The same will be sourced from Dhuptala OC Mine (Sasti UG to OC Mine) will receive power at 11 kV by drawing 4 km long overhead line from 66 kV / 11 kV Sasti substation of WCL.

Pp submitted that, four nos of 11 kV electric lines of MSEB and WCL and one no of 66 kV electric lines are passing over the proposed quarry area needs to be diverted.

**38.2.14: Plantation:** Existing Green belt has been developed in 98.35 ha which is about 9.7% of the total mine lease area of 1013.83 ha with total sapling of 3,87,125.00 trees. The proposed green cover will be developed in 561.30 ha which is about 55.36% of the total mine lease area.

Thus total of 561.30 ha (55.36% of total mine lease area) will be developed as green cover at post mining. A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. The total no.of 1403250 saplings will be planted and nurtured in 561.30 ha in 25 years + post mining period (3 years).

**38.2.15: Rehabilitation and Resettlement issues:** 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, Rehabilitation and resettlement Act, 2013 has come into force, rehabilitation and resettlement of project affected families have to be carried out as per this Act.

It comprises of two components: i. Rehabilitation: For rehabilitation of eligible persons either job or cash compensation in lieu of employment is provided ii. Resettlement: For resettlement either plot or cash compensation in lieu of, plot is provided.

Sasti village lies within the proposed quarry area. In view of this, their **relocation and rehabilitation** have been proposed in accordance with the provisions of Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation & Resettlement policy 2012.

As per the approved Project Report of the proposed project, the relocation is required to be completed after eight years from the date of commencement of mining operations. Accordingly, the rehabilitation of Sasti village is tentatively scheduled during the year 2030–2031.

The total cost provision of land including Sasti village Rehabilitation as per PR is 544.0111 Crs. Total no.of project affected families – 1523 nos. (Approx. as per Approved Project report)

Status:

The relocation of Sasti village has already been proposed in the approved project report and Mining plan of Dhuptala OCM. The steps involved in the finalisation of the Rehabilitation & Resettlement process are as follows:

- a) A baseline socio economic survey of Sasti village was carried out by Social Responsibility Asia as per the work order vide letter no.160, Dated 28.09.2023. The draft report has been submitted and the final report is presently under finalisation in consultation with project authorities. The relevant copy is submitted by PP.
- b) The Thaluka Inspector of Land Records Survey has been completed, and property cards have been generated.
- c) For assessment of valuation of land& properties by PWD department, correspondences has been made by PP vide letter no 883, Dt.18.02.2024 &letter no.668, Dt.01.12.2025. Initiation of valuation work is under process. All the relevant documents are submitted by PP.
- d) Further, correspondence has also been made to the District Collector Chandrapur, vide letter No.615 dtd.12.11.2025 for arranging a meeting with Sasti village residents to initiate the rehabilitation process as well as for allotment of 15 ha. of suitable Govt. land for rehabilitation, vide letter no.886, Dt.17.02.2024. All the relevant documents are submitted by PP.

Further PP submitted that, after the finalisation of the list of project-affected persons and families, including their residences, establishments, cattle sheds, educational institutions, etc.,

the cost estimation for providing the eligible relocation benefits is carried out. This estimate shall be finalised with the approval of State Government.

**38.2.16: Legal Issues/ Violation:** PP reported that there is no legal issue/violation wr.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.

**38.2.17: Undertaking/ Affidavit:** PP vide an affidavit submitted that, mining operations at the site are being carried out in accordance with the provisions of the approved mining plan and the existing Environmental Clearance granted by MoEF&CC. (Ref: EC for Dhuptala expansion OC vide no: J-11015/538/2008-IA.II(M), Dated.10.01.2013). There is no litigation against the project either at Hon'ble NGT or any other court of Law pertaining to Environmental aspects. The land has been acquired as per the provisions of approved Project Report/Mining Plan of Dhuptala expansion OC under CBA Act, 1957, LA Act, Direct purchase, MLR, 1966 and Coal Mines Nationalisation. Act, 1973. Rehabilitation of Sasti village is involved in this project. There is no difference in the documents submitted i.e Common Application Form, Form-I, EIA/EMP report to MoEF&CC and presentation being made to the EAC. Reason for submitting the project at MoEF&CC - The present proposal seeks an expansion of the existing EC (Ref:J-11015/538/2008-IA.II(M), Dated.10.01.2013) for Dhuptala expansion OC with increase in production capacity from 1.7 MTPA to 2.5 MTPA and reduction in the Mine lease area from 1300.91 ha to 1013.83 ha, located in Village Sasti, Tehsil: Rajura, District: Chandrapur; State: Maharashtra.

Further, vide an undertaking, PP submitted that, the information provided in Form-1 in electronically/ soft format in PARIVESH, to the Ministry/EAC members and PPT presentation during the EAC meeting to be held on 20-21 January 2026 have no deviation in respect of the proposal no LA/MH/CMIN/560492/2025 for EC expansion for coal mining having 1013.83 ha of Mine lease area and capacity of 2.5 MTPA for Coal Mine Project located at Village Sasti, Taluk Rajura, District: Chandrapur, State: Maharashtra by M/s. Western Coalfields Limited. 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 expansion in EC.

### **Observation and deliberation of the EAC:**

**38.2.18: Committee after deliberations noted the following:**

1. M/s Western Coalfields Limited has submitted an online application seeking expansion under the Environmental Clearance (EC) for the Dhuptala Opencast Coal Mine Project (Increase in production capacity from 1.7 MTPA to 2.5 MTPA with reduction in ML area from 1300.91 Ha to 1013.83 Ha), located in Village: Sasti; Tehsil: Rajura; District: Chandrapur; State: Maharashtra.
2. The Dhuptala Opencast Coal Mine Project was originally granted Environmental Clearance (EC) by MoEF&CC vide letter dated 10/01/2013 for a production capacity of 1.70 MTPA, within a Mining Lease (ML) area of 1300.91 Ha. The Consent to Operate (CTO) has been renewed by MPCB and is valid up to 31.03.2026. The project has been fully implemented.

3. The area being reduced in the said project is for village rehabilitation and existing Sasti township. Hence, it does not form part of the ML area.
4. The proponent accorded ToR for the said project vide letter no. J-11015/538/2008-IA-II(M), dated 30.08.2023.
5. 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.
6. The project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI assessment 2018. Letter in this regard from MPCB has been obtained vide letter dated 15.12.2025.
7. The project does not involve forestland.
8. The project is not located within 10 KM of any ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/elephant corridor etc. as per the correspondence from the State Forest department vide letter no: 960, Dt.30.10.2024. As per the information received from forest department, there is telemetry state tiger corridor passing through the project area. Accordingly, an application for wildlife clearance has also been made by Project Proponent. Further, as per the letter dt.20.08.2025 issued by the Inspector General of Forests, NTCA addressed to the chief wildlife wardens of all Tiger range (Relevant documents area submitted by PP), it has been stated that “.... The states should preferably adhere to those corridors, which have been identified from the aforementioned two sources under the aforesaid provisions of the wildlife (Protection) Act, 1972....”. The corridors referred in the above communication are those identified in the document titled “Connecting tigers for long term conservation” & the notified tiger reserves under section 38(v) of the wildlife protection Act, 1972. It is pertinent to mention that, Dhuptala expansion OC doesn’t fall within the identified corridors requiring wildlife clearance. However, for further clarification, correspondences have been made to NTCA, and a response is presently awaited.

Committee observed that, as per the application submitted on the Parivesh portal, PP has submitted that there is applicability of NBWL clearance. PP, submitted the application for the same vide Proposal no. WL/MH/MIN/QRY/511294/2024, dated 02.12.2024.

Committee opined that, PP shall submit the present status of the application submitted and the response of NTCA, in order to clearly comprehend about the applicability of Wildlife Clearance for the instant project.

9. The wildlife conservation plan of Dhuptala expansion OC has been approved by PCCF, wildlife for an amount of Rs. 928.50 Lakhs, vide letter dated 08.09.2025. Committee opined that the same shall be implemented in a time bound manner.
10. Committee deliberated on the Certified Compliance Report obtained by the PP from the Ministry’s RO vide letter dated 01.07.2025 for which, ATR was submitted to the RO by the PP vide letter dated 22.07.2025. EAC observed that, there were 3 partially complied conditions, for which the PP has submitted the action plan. Committee opined that the PP shall abide by the timeline.
11. Mining plan along with mine closure plan for the Dhuptala Opencast Coal Mine Project has been approved by the board of M/s WCL vide WCL/Office of CS/BM-380/2025-26/712, Dt.06.10.2025. Method of Mining to be adopted shall be Open Cast Mining. Total geological reserve reported in the mine lease area is 69.63 MT with 53.11 MT

Mineable reserve. Out of total mineable reserve of 53.11 MT, 53.11 MT area available for extraction. Percentage of extraction is 100%.

12. Grade of Coal is G-11 and Stripping ratio is 5.26 cum/ tonne (Avg), while gradient is 1 in 10 to 1 in 18. Remaining Life of mine is 22 years as on 01.04.2025.
13. EAC observed that there is one top soil dump, which will accommodate 27.89 Mm<sup>3</sup> of topsoil and it will be used to carpet over the external and internal OB dumps for utilization.
14. Further Committee observed that there is no internal dump in the project as of now. However 2 nos. of internal OB dumps are proposed in the expansion project. Similarly, at present, there is one existing external OB dump with an approximate height of 58 m (as on 01.04.2025). The same dump will continue to be utilized for the remaining overburden dumping until it attains a maximum height of 90 m. However, in the expansion project, two nos. of external dumps are proposed. During deliberation, Committee also observed that, out of total 137.97 Mm<sup>3</sup>, 51.17 Mm<sup>3</sup> is proposed to be backfilled after 18<sup>th</sup> year of operations in the proposed/ upcoming Ballarpur N-W OC and 86.7 Mm<sup>3</sup> is proposed to be backfilled within Dhuptala expansion OC from 8<sup>th</sup> year of operations.
15. Committee further deliberated on the method of transportation of coal from the said mines and observed that, from in-pit to surface the coal is being transported using tippers, from surface to siding the coal is being transported to the Ballarpur railway siding which is approximately 4.5 km and the coal is being transported by dumpers/tippers through road. Then the coal is being loaded to the railway rakes using payloaders at the Ballarpur railway siding and then being transported to the final consumers.
16. The baseline data for the said project was carried out during March 2023 – June 2023. During the deliberation committee sought the comparison of the baseline monitoring data to that with the latest routine environment monitoring data. PP submitted the same. Committee observed that, the PM<sub>10</sub> and PM<sub>2.5</sub> parameters have been increased as per the REM submitted for the period of October 2025 – December 2025. Committee opined that, PP shall focus on excessive plantation and other air pollution mitigation measures shall be accordingly increased. Committee further observed that, GLC of PM<sub>10</sub> and NO<sub>x</sub> in the core zone is reported as 32.56  $\mu\text{g}/\text{m}^3$  and 30.11  $\mu\text{g}/\text{m}^3$  respectively. PP is requested to clarify the reasons for such high GLC and the revised AAQ modelling results shall be submitted along with the comparison of the baseline data with the Routine Environment Monitoring data.
17. The total water required for the said project is 1937 KLD (industrial: 1177 KLD; domestic: 760 KLD). Source of water shall be Mine seepage water. NoC for the same has been obtained from CGWA, vide no. CGWA/NOC/MIN/REN/1/2025/11875, Dated 24.09.2025 valid from 19.09.2024 to 18.09.2026. Committee observed that Dhuptala nallah is flowing through the mine lease area and is proposed for diversion. On being asked, PP justified that, the diversion of Nallah is required after two years in 2027-28 i.e after 5<sup>th</sup> year from starting of the mining operations of the mine (2022-23). The non-diversion of Nallah will hamper in extraction of approx. 12 Million tonne of coal reserves in south-east of the project. A study has been conducted for entire catchment area by IIT Kharagpur. Various mitigation measures, i.e. plantation and grassing along the proposed diverted route of Nallah, stakeholder engagement, Gabion Wall along the OB Dump has been proposed. The time-bound action plan with

physical targets and financial outlay for the mitigation measures as suggested in the “catchment study” conducted by IIT Kharagpur shall be submitted by the PP.

18. Committee deliberated on the public hearing that took place for the said proposal on 02.06.2025. Advertisement for the same was given in Times of India and Loksatta on 26.04.2025. PH took place at Manoranjan Kendra, Sasti Colony, WCL and was presided by the Additional District Magistrate. Approximately, 162 nos. of persons attended the PH and 9 nos. of written representations were received. The major issues raised, included, land compensation, blasting issues, drinking water supply, health checkup facilities, plantation activities, dust suppression measures, reduction in groundwater levels, installation of CAAQMS, etc. PP submitted an action plan for the PH issues, which also included CER cost. Committee sought a revised time bound action plan with physical targets.
19. The budget submitted by the proponent for Environment Management Plan for the proposed expansion is Rs. 375 lakhs (capital cost) and Rs. 6466.6 lakhs (recurring cost). Project proponent shall submit the updated EMP budget along with the physical targets and timeline to implement the same.
20. Total power Requirement for the said project is 6 MW. The same will be sourced from Dhuptala OC Mine (Sasti UG to OC Mine) will receive power at 11 kV by drawing 4 km long overhead line from 66 kV/ 11 kV Sasti substation of WCL. Committee further observed, that four nos. of 11 kV electric lines of MSEB and WCL and one no of 66 kV electric lines are passing over the proposed quarry area needs to be diverted. Committee opined that the necessary permissions in this regard shall be taken from the concerned authority.
21. Committee deliberated on the plantation already developed and proposed to be developed by the PP and opined that PP shall explore to reduce the void area of the said project. PP submitted the revised land use pattern and increased the plantation area to 561.30 Ha and reduced the void area to 282.68 Ha. PP submitted that, existing greenbelt has been developed in 98.35 Ha which is about 9.7% of the total mine lease area of 1013.83 ha with total sapling of 3,87,125.00 trees. The proposed greencover will be developed in 561.30 Ha which is about 55.36% of the total mine lease area. A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. The total no. of 1403250 saplings will be planted and nurtured in 561.30 Ha in 25 years + post mining period (3 years). Apart from this, miyawaki plantation in 2 Ha is under process at the Dhuptala OC. Committee opined that as the mine is operational from more than 10 years and still plantation in safety zone/ Greebelt ( 7.5 meter wide along the boundary) is to be done the proponent. The PP should distribute the saplings of fruit bearing plants to the nearby villagers and should incentivise them for its survival.
22. 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, Rehabilitation and resettlement Act, 2013 has come into force, rehabilitation and resettlement of project affected families have to be carried out as per this Act. Sasti village lies within the proposed quarry area. In view of this, their relocation and rehabilitation have been proposed in accordance with the provisions of Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation & Resettlement policy 2012. Further, correspondence has also been made to the District Collector Chandrapur, vide letter No.615 dtd.12.11.2025 for arranging a meeting with Sasti

village residents to initiate the rehabilitation process as well as for allotment of 15 Ha. of suitable Govt. land for rehabilitation, vide letter no.886, Dt.17.02.2024. All the relevant documents are submitted by PP. Further PP submitted that, after the finalisation of the list of project-affected persons and families, including their residences, establishments, cattle sheds, educational institutions, etc., the cost estimation for providing the eligible relocation benefits is carried out. This estimate shall be finalised with the approval of State Government. Committee opined that, the same shall be finalised at the earliest.

23. 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.

**Recommendations of the Committee:**

**38.2.19:** In view of the foregoing and after detailed deliberations, the committee recommended to **defer** the instant proposal for want of the following additional information:

1. Project proponent shall submit the present status of application submitted for wildlife clearance vide proposal no. WL/MH/MIN/QRY/511294/2024. In case of non-applicability of the same, letter from concerned competent authority and withdrawal of the NBWL application shall also be submitted. In addition to this, application for EC shall also be revised.
2. Project proponent shall revisit the modeling results of AAQ as the GLC reported for PM and NOx parameter is appears to be on higher side.
3. Project proponent shall submit the comparison of the baseline data collected during March – June, 2023 with the Routine Environment Monitoring data. Additional mitigation measures proposed in this regard if any shall also be submitted.
4. Project proponent shall submit the time-bound action plan with physical targets and financial outlay for the mitigation measures suggested in the “catchment study” conducted by IIT Kharagpur shall be submitted by the PP.
5. Project proponent shall submit the revised action plan with physical targets to address the concerns/issues raised during Public Hearing.
6. Project proponent shall submit the time bound action plan of plantation to be done especially in safety zone and green belt all along the boundary of ML area within a time frame of next 5 years.
7. Project proponent shall revisit the capital cost for the instant expansion project, capital and recurring cost earmarked for the implementation of Environment Management Plan.

**Agenda No. 38.3:**

**38.3:** Naini Coal Mine and washery project (having production capacity of 10 MTPA, coal washing capacity of 8 MTPA, within the ML area of 912.799 Ha), **by M/s The Singareni Collieries Company Limited**, located at Villages: Chhendipada; Tehsil: Chhendipada; District: Angul; State: Odisha – **Amendment in Environment Clearance – reg.**

**[Online Proposal No. IA/OR/CMIN/563626/2026; Consultant: Environment Protection & Training Research Institute – NABET/EIA/24-27/RA0337 valid up to 21.01.2027]**

**38.3.1:** The instant proposal is for amendment in Environment Clearance granted to M/s Singareni Collieries Company Limited (SCCL) accorded vide letter no. J-11015/49/2019-IA-II (M), dated 01.12.2021 and further amended vide letter dated 22.01.2024, for Naini Coal Mine and washery project (having production capacity of 10 MTPA, coal washing capacity of 8 MTPA, within the ML area of 912.799 Ha), by M/s The Singareni Collieries Company Limited, located at Villages: Chhendipada; Tehsil: Chhendipada; District: Angul; State: Odisha.

The amendment is sought pertaining to the condition related to implementation of Conveyor Belt. The said condition has been previously amended vide letter dated 22.01.2024.

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

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

S. No.	Details of Letter No.	EC/ Expansion/ Amendment/ Validity extension	Capacity (MTPA)	Area (ha)	Date of issuance	Status of implementation
1.	IA-J-11015/49 /2019-IA-II(M)	EC	10.00 MTPA	912.799	01.12.2021	Being implemented
2.		Amendment in EC			22.01.2024	

W.r.t the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from 01.05.2025 onwards. CTO renewal has been obtained from the SPCB and is valid up to 31.03.2026. Details of the same are as follows:

Year	Actual Coal Production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess Production
2025-26	0.77	10.00	0

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

Specific/ General Condition No.	Details of conditions as per EC	Amendment Sought	Justification
EC Specific Condition No. 4 (ix) of EC dated 01.12.2021, further amended vide EC dated 22.01.2024.	<u>As per EC dated 01.12.2021:</u> <i>"Transportation of coal from Mine to CHP to be done by Close conveyor system and from Coal Handling Plant shall be through mechanized covered trucks for 3 years. No transportation by trucks after 3 years and proposed railway siding should be constructed without any delay."</i>	Continue coal transport by road mode for another five years i.e., up to December, 2030.	Development of common rail corridor of 68 km length proposed from Angul- Balaram- Putagadia- Jarapada - Tentuloi station covering Naini coal block of SCCL, NALCO, OMC & others was taken up by the Government through MCRL.  However, MCRL completed railway line between Angul to Balaram in Phase-I, but the remaining part of railway line from Balaram-Putagadia Jarapada- Tentuloi was not started by MCRL due to administrative reasons.  Subsequently, in alignment with strategic priorities under the PM Gati Shakti initiative, the Railway authorities have entrusted the development of Common Rail Corridor (49 km inner corridor in Phase-II covering Balaram-Putagadia-Jarapada-Tentuloi) to East Coast Railways. The

Specific/ General Condition No.	Details of conditions as per EC	Amendment Sought	Justification
	<p><u>As per EC amendment dated 22.01.2024:</u></p> <p><i>“Transportation of coal from Mine to CHP be done by close conveyor system and from Coal Handling Plant shall be through mechanized covered trucks December, 2025. No transportation by trucks after December, 2025 years. Accordingly, SPCB shall issue the CTO”</i></p>		development of Phase-II Inner rail corridor may take at least 5 years from December-2025.

#### 38.3.4: Justification for extension in timeline for installation of conveyor belt:

i. Chronology of the activities undertaken and in progress

- EC was granted to the project on 01.12.2021.
- It was proposed to transport coal from Naini Project, Angul, Odisha through Rail up to STPP, Jaipur, Telangana State.
- The development of common rail railway corridor (railway line) of 68 km length proposed from Angul – Balaran – Putagadia – Jarapada and Putagadia – Tentuloi covering Naini coal block of SCCL, NALCO, OMC & others was taken up by the Government through Mahanadi Coal Railway Limited (MCRL).
- The proposed 68 km MCRL coal railway corridor was likely to be commissioned by 2026-27.
- Considering that the railway line under execution by MCRL is proposed to be completed by March-2027, SCCL submitted a proposal in November-2023 seeking amendment for transportation of coal by road mode up to March-2027. MoEF&CC, vide amendment dated 22.01.2024, permitted transportation of coal by road mode up to December-2025.
- The DPR for Railway siding near the Naini coal mine has been prepared by M/s IRCON International and approved by the East Coast Railways. PMC contract has been awarded to M/s RITES Ltd., on 15.6.2024 for proposed Railway siding including assistance in diversion of forest land and acquisition of the NFL. The survey work is under progress and the railway siding will become operational only after commissioning of the proposed coal railway corridor.
- Mining operations in the project were started on 01.05.2025 (delayed due to delay in possession of forest land from State Forest department. Stage – II forest clearance on the 783.275 ha of forestland involved in the project was accorded vide letter no. 8-01/2020-FC, dated 12.10.2022).
- Coal production has started from 01.08.2025. However, coal transportation is presently kept on hold due to land issues with the approach road to proposed Jarapada railway siding.
- In the proposed railway corridor MCRL completed railway line between Angul to Balaran (14 km) in Phase-I, but the remaining part of railway line from Balaran – Putagadia – Jarapada and Putagadia- Tentuloi was not started by MCRL due to administrative reasons.
- Subsequently, in alignment with strategic priorities under the PM Gati Shakti initiative, the Railway authorities have entrusted the development of Common Rail Corridor (49 km inner corridor in Phase-II covering Balaran-Putagadia-Jarapada and Tentuloi) to East Coast Railways.

ii. Justification for the extension of timeline

- The development of common rail corridor of 68 km length proposed from Angul – Balaram – Putagadia – Jarapada and Putagadia – Tentuloi covering Naini coal block of SCCL, NALCO, OMC & others was taken up by the Government through Mahanadi Coal Railway Limited (MCRL).
- However, MCRL completed railway line between Angul to Balaram (14 km) in Phase-I, but the remaining part of railway line from Balaram – Putagadia – Jarapada and Putagadia- Tentuloi was not started by MCRL due to administrative reasons.
- Subsequently, in alignment with strategic priorities under the PM Gati Shakti initiative, the Railway authorities have entrusted the development of Common Rail Corridor (49 km inner corridor in Phase-II covering Balaram-Putagadia-Jarapada and Tentuloi) to East Coast Railways. The development of Phase-II Inner rail corridor may take at least 5 years from December-2025.
- In view of the above, it is requested to extend the validity period under specific condition No.4(ix) of EC for another five years i.e., up to December, 2030 and permit SCCL to transport coal by road mode.

iii. Present status of installation of belt conveyor and railway siding near the project:

- The Mining operations commenced from 1st May, 2025. The belt conveyor system with RLS has been planned at the Naini Coal Mine as part of a larger "First Mile Connectivity" (FMC) strategy.
- SCCL has awarded contract for preparation of tender document detailed design and drawings related to the structures and selection of P&M for the CHP including silo and RLS to CMPDI.
- The DPR for Railway siding near the Naini coal mine has been prepared by M/s IRCON International and approved by the East Coast Railways. PMC contract has been awarded to M/s RITES Ltd., on 15.6.2024 for proposed Railway siding including assistance in diversion of forest land and acquisition of the NFL. The survey work is under progress.
- The above arrangements can come in to operation only after commissioning of the proposed common rail corridor up to Tentuloi (near Naini mine) which is under implementation by the East Coast Railways as the off-take arrangement for the siding is planned from Tentuloi.
- Hence, as an interim arrangement currently it is planned to evacuate coal from Naini mine under R-C-R mode utilizing the existing road network and public railway sidings available nearby.

The belt conveyor system, RLS, CHP will be commissioned in sync with the construction of the proposed railway corridor up to Tentuloi.

**38.3.5: Present and proposed Coal evacuation system:**

Present coal evacuation system	Coal evacuation system up to December-2030	Coal evacuation system after December-2030
<p>a) Road cum rail mode: The coal from the project is transported via 29.00 km (approximately) road to Jarapada railway siding through covered trucks ensuring all the environmental controls measures being enforced.</p> <p>b) To miscellaneous consumers by road.  However, coal transportation is presently kept on hold due to land issues with the approach road to</p>	<p>b) Road cum rail mode: The coal from the project is transported via 29.00 km (approximately) road to Jarapada railway siding through covered trucks ensuring all the environmental controls measures being enforced.</p> <p>b) To miscellaneous consumers by road.</p>	<p>a) About 80-90% of the total dispatch will be transported from CHP via closed belt conveyor to the Tentuloi Railway siding and thereafter evacuated through rail mode.</p> <p>b) To miscellaneous consumers by road approx. 10-20% of the total dispatch.</p>

Present coal evacuation system	Coal evacuation system up to December-2030	Coal evacuation system after December-2030
proposed Jarapada railway siding.		

**38.3.6: Traffic Assessment Study Report:** The traffic assessment study has been carried out in accordance with **IRC guidelines** to evaluate the actual capacity of the existing coal transportation route, based on the current traffic volume required for dispatching the peak coal quantity.

The number of vehicles (traffic volume count on hourly basis) from the **mine exit to the Jarapada siding** has been **manually recorded at one-hour intervals at six locations**:

Codes	Locations
T1	Chhendipada junction
T2	Tentuloi
T3	Balipata
T4	Durgapur (Durgapur to Jarapada and Lakshmidrapur Junction )
T5	Jarapada
T6	Kosala (Chhendipada and Jarapada Junction Road)

The traffic volume was divided into 2 wheelers, 3 wheelers, Passenger Vehicle and Heavy Commercial vehicles. The number of vehicles per hour were counted and converted into Passenger Car Units (PCU's) using factor given in **IRC: 106-1990**.

#### **Traffic Volume and Capacity of the Road:**

Based on the traffic studies V/C ratio and LoS were calculated at six monitoring locations. Two scenarios were considered, one scenario is based on the total existing traffic, in second scenario traffic including the trucks used for coal transportation is considered. The V/C ratio and LoS at six locations are as below:

Existing and Change in Traffic Level of Service at 6 locations

Codes	Location	Existing Traffic			Proposed Traffic (Including Naini coal vehicles transportation of 10 MTPA)		
		No of PCUs	V/C	LoS	No of PCUs	V/C	LoS
T1	Chhendipada junction	76.5 (Peak:9-10 AM)	0.051	A	292.5	0.195	A
T2	Tentuloi	70 (Peak:9-10 AM)	0.047	A	286	0.19	A
T3	Balipata	67.5 (Peak:9-10AM)	0.045	A	283.5	0.189	A
T4	Durgapur (Durgapur to Jarapad and Lakshmidrapur Junction)	66 (Peak:11-12PM)	0.044	A	282	0.188	A
T5	Jarapada	97 (Peak:9-10AM)	0.065	A	313	0.21	B
T6	Kosala, Chhendipada & Jarapada Junction Road	145 (Peak:6-7PM)	0.097	A	361	0.24	B

2 Lane (Two way) as per **IRC : 106 -1990** – 1500 PCUs e.g. 931/1500=0.620  
No of PCUs from Mine to Jarapada railway station considered 216 during peak hour

During the study it is observed that the level of service at all the six locations were observed to A. There is no change of level service after including the coal transport vehicles in 4 locations

(T1 to T4) and in the other two locations (T5 and T6) the level of service had slightly decreased from A to B due to addition of Naini coal mine vehicles.

#### Road width at measured locations

Location code	Existing shoulder left side (m)	Existing shoulder right side (m)	Existing Carriage way width (m)	Type of the Road	Recommended design service volume in PCU/day
W1	1	1	7.0	Two Lane Roads	15000
W2	0.5	0.5	5.3	Intermediate Lane Roads	6000
W3	0.5	0.5	5.0	Intermediate Lane Roads	6000
W4	0.5	0.5	7.0	Two Lane Roads	15000
W5	1	1	7.0	Two Lane Roads	15000
W6	1	1	8.0	Two Lane Roads	15000

**Air Quality monitoring data:** The monitoring details at the environmental sensitive locations for the period of December'2025.

#### Summarized Ambient Air Quality levels in the study area (Particulate Matter)

Locations	PM <sub>10</sub> (µg/m <sup>3</sup> )			PM <sub>2.5</sub> (µg/m <sup>3</sup> )		
	Min.	Max.	Avg.	Min.	Max.	Avg.
Naini coal mine	103.0	140.0	118.0	26.7	27.5	25.05
Chhendipada	56.0	65.0	60.50	22.4	25.4	23.40
Tentuloi	45.0	48.0	46.30	15.1	20.1	18.00
Pasabani	50.0	55.0	52.60	19.5	24.5	21.50
Balipata	56.0	62.0	59.60	20.0	22.3	21.00
Putagadia	43.0	48.0	45.17	19.2	20.5	19.43
Durgapur	47.0	54.0	49.83	19.1	21.2	20.07
Jarapada	50.0	62.0	56.00	20.9	24.1	22.50
Standards	Core- 250, Buffer - 100			Core - NS, Buffer - 60		

#### Summarized Ambient Air Quality levels in the study area (Gaseous pollutants)

Locations	SO <sub>2</sub> (µg/m <sup>3</sup> )			NO <sub>2</sub> (µg/m <sup>3</sup> )			CO (mg/m <sup>3</sup> )
	Min.	Max.	Avg.	Min.	Max.	Avg.	Max.
Naini coal mine	10.5	13.7	11.70	14.6	17.1	15.45	BDL
Chhendipada	10.2	12.6	10.90	14.2	15.7	14.92	BDL
Tentuloi	8.4	9.1	8.70	12.4	14.6	13.30	BDL
Pasabani	8.2	9.8	9.10	13.2	14.8	14.10	BDL
Balipata	9.0	10.3	9.70	13.7	15.5	14.70	BDL
Putagadia	8.2	10.2	9.20	12.6	14.8	13.55	BDL
Durgapur	9.3	11.5	10.08	12.1	15.2	13.88	BDL
Jarapada	9.8	11.1	10.6	12.0	15.0	13.3	BDL
Standards	Core- 120, Buffer - 80			Core- 120, Buffer - 80			2.0 mg/m <sup>3</sup> 2000 µg/m

#### Ambient Noise Quality:

Codes	Locations	Limits in dB (A)	
		Day time noise levels Leq (day)	Night time noise levels Leq (Night)
CN1	Naini Coal mine	54.1	44.2
BN1	Chhendipada	50.3	42.2
BN2	Tentuloi	43.2	36.1

Codes	Locations	Limits in dB (A)	
		Day time noise levels Leq (day)	Night time noise levels Leq (Night)
BN3	Pasabani	47.5	38.4
BN4	Balipata	46.4	35.2
BN5	Putagadia	45.5	34.2
BN6	Durgapur	52.8	39.5
BN7	Jarapada	53.6	44.4

### **Mitigation measures further proposed:**

Transportation of coal from the project not yet started.

The Following **traffic management measures** are proposed for ensuring safe transport of coal in road mode.

- Adequate sign boards depicting prohibition on overtaking of vehicles will be displayed at prominent locations, visible to both incoming and outgoing vehicles at Naini coal mine.
- All the Internal approach roads including loading and unloading points at Naini coal mine will be asphalted.
- Adequate turning radius at all the curves for the loaded trucks will be ensured (1.5 of times the maximum length of the vehicle).
- Adequate street lighting provided, as the trucks moving during dark hours also.
- To establish smooth entry & exit of vehicles, bell mouth shaped geometry shall be provided at all junctions to provide smooth transition for merging of vehicles.
- Adequate sign & guide posts for traffic as per IRC (Indian Road Congress) will be installed.
- Provision of adequate facilities for pedestrians and cycles in the project and unloading Premises. Separate ways will be provided to avoid interference with vehicular traffic.
- Road marking, STOP lines, parking lanes, etc., will be clearly painted so as to guide the drivers.
- Fitness of trucks deployed for coal transport will be ensured from time to time.
- Proper traffic management practice will be implemented in all the road stretches.
- All settlement stretch will be maintained as Silence Zone. Use of Horns shall be prohibited along settlement stretch. Use of pressure horns shall be strictly prohibited.

### **Fugitive emissions mitigation measures**

The following measures are being envisaged for controlling the fugitive dust emission due to coal transportation by road mode.

- Regular dust suppression near loading and unloading points.
- Proper dust suppression system at hoppers, CHP premises and approaches to CHP area.
- Mist spray arrangement at all dry material conveying and transfer points.
- Area between various sections and truck parking areas will be made of concrete/ asphalted /brick work.
- All the internal roads will be made of asphalted /concrete.
- It will be ensured that the coal transport trucks are filled up to brim level and covered with good quality tarpaulin cloth to avoid coal spillage during transport.

- Coal transport vehicles will be taken up for periodic maintenance for tuning of engines in order to control vehicular exhaust emissions.
- During periodic checks of trucks, condition of body with respect to leakages will be checked and steps shall be taken to prevent coal spillages during movement of trucks on the public roads.

**38.3.7: Details of pending Legal Issues/ Violation:** A case is pending in the Hon'ble NGT, Eastern Zone Bench, Kolkata, regarding the diversion of forest land. Case No. O.A. 233 of 2024 (SZ), dt: 04.10.2024 has been admitted in the Hon'ble NGT, Eastern Zone Bench, Kolkata basing on a complaint received from Jharana Dehury and other residents/villagers of Chhendipada Tehsil, Angul District, Odisha regarding illegal handing over of 643.095 ha of Chhendipada-Ankurpal Reserve Forest land by Govt. of Odisha without following the compliance of Forest Clearance dated 12.10.2022 for Naini Open-cast Coal Mine project.

Current status: The case is pending before the Hon'ble NGT, notices have been issued to the Government of Odisha and other Respondents. All the respondents filed their counter-affidavits and filing of rejoinder by the applicant is pending. The case is listed on 09.02.2026 for final hearing.

**38.3.8: Written Submissions:** During the meeting, PP submitted the following information:

1. During the deliberation PP submitted the coal washery will be established as per the EC dated 01.12.2021 in accordance to the requirement of the Company.
2. PP submitted the following additional pollution control measures in view of road transportation:
  - a) Avenue plantation will be taken up in consultation with State Forest Department.
  - b) Mechanical sweeping machine will be deployed.
  - c) Trucks will be covered with tarpaulin for coal transport.
  - d) Possibility of deploying E-vehicles will be explored.
  - e) Air quality will be monitored along the coal transportation road near habitations.
3. Production schedule of the next 5 years:

Year	Production in MTPA	No. of vehicles used for coal transportation/hr
1st	1.0	4
2nd	5.0	18
3rd	7.5	27
4th	10.0	36

#### **Observations and deliberation of the Committee:**

**38.3.9: The EAC noted the following:**

1. The instant proposal has been submitted by M/s Singareni Collieries Company Limited for the Naini Coal Mine and Washery Project (having production capacity of 10 MTPA, coal washing capacity of 8 MTPA, within the ML area of 912.799 Ha), located at Village Chhendipada, Tehsil Chhendipada, District Angul, State Odisha, seeking amendment in the Environmental Clearance dated 01-12-2021, accorded vide letter no. J-11015/49/2019-IA-II(M), and further amended vide letter dated 22.01.2024.
2. The amendment is sought pertaining to the condition relating to implementation of conveyor and extension in timeline to transport the coal by road.

3. The above-mentioned project started its mining operations from 01 May 2025, and the said EC is currently under implementation.
4. As per Specific Condition No. 4.9 of the EC dated 01-12-2021, it was stated that "*Transportation of coal from Mine to CHP to be done by Close conveyor system and from Coal Handling Plant shall be through mechanized covered trucks for 3 years. No transportation by trucks after 3 years and proposed railway siding should be constructed without any delay.*" The same was later amended vide EC dated 22-01-2024, wherein it was mentioned that, "*Transportation of coal from Mine to CHP be done by close conveyor system and from Coal Handling Plant shall be through mechanized covered trucks December, 2025. No transportation by trucks after December, 2025 years. Accordingly, SPCB shall issue the CTO.*"
5. The Committee deliberated on the reasons for seeking extension in timeline and the delay in installation of the conveyor and railway siding, and observed that the development of common rail railway corridor (railway line) of 68 km length proposed from Angul – Balaram – Putagadia – Jarapada and Putagadia – Tentuloi covering Naini coal block of SCCL, NALCO, OMC & others was taken up by the Government through Mahanadi Coal Railway Limited (MCRL). The same was likely to be commissioned by 2026-27. Accordingly, M/s SCCL submitted a proposal in November-2023 seeking amendment for transportation of coal by road mode up to March-2027. However, MoEF&CC, vide amendment dated 22-01-2024, permitted transportation of coal by road mode only up to December 2025. Hence, the proposal has again been submitted for seeking further amendments.
6. The Committee deliberated on the present status of installation of the belt conveyor and railway siding near the project, and observed that the belt conveyor system with RLS has been planned at the Naini Coal Mine as part of the larger First Mile Connectivity (FMC) strategy. M/s SCCL has awarded contracts for preparation of tender documents, detailed design and drawings related to the structures, and selection of Plant & Machinery (P&M) for the CHP including silo and RLS, to CMPDI. The DPR for the railway siding near the Naini Coal Mine has been prepared by M/s IRCON International and approved by the East Coast Railway. The PMC contract has been awarded to M/s RITES Limited on 15-06-2024 for the proposed railway siding, including assistance in diversion of forest land and acquisition of non-forest land. The survey work is under progress.  
PP further submitted that, the above arrangements can come into operation only after commissioning of the proposed common rail corridor up to Tentuloi near Naini Mine, which is under implementation by the East Coast Railway, as the off-take arrangement of the siding is planned from Tentuloi. Therefore, as an interim arrangement, it is currently planned to evacuate coal from Naini Mine under RCR mode, utilizing the existing road network and nearby public railway siding. The Project Proponent (PP) also submitted that the belt conveyor system, RLS and CHP will be commissioned in sync with the construction of the proposed railway corridor up to Tentuloi.
7. The Committee deliberated on the present and proposed coal evacuation system and observed that, at present, coal from the project is planned to be transported via approximately 29 km road to the Jarapada railway siding through covered trucks, ensuring that all environmental control measures are being enforced, and to miscellaneous local consumers by road. However, coal transportation is presently kept on hold due to land issues related to the approach road to the proposed Jarapada railway

siding. Till the time the railway siding is commissioned (i.e., up to December 2030), coal is proposed to be transported in the same manner, ensuring compliance with all environmental control measures. After December 2030, the Project Proponent submitted that about 80–90% of the total coal dispatch will be done using the CHP via closed belt conveyor to the Tentuloi railway siding and thereafter will be evacuated through rail mode, and the remaining 10–20% of the total dispatch will be done to the local miscellaneous consumers by road taking all the control measures.

8. The Committee further deliberated on the Traffic Assessment Study Report submitted by the Project Proponent for the road through which coal is proposed to be transported, and observed that the traffic assessment study has been carried out in accordance with IRC guidelines to evaluate the actual capacity of the existing coal transportation route, based on the current traffic volume required for dispatching the peak coal quantity. The Committee observed that, based on the traffic studies, the V/C ratio and Level of Service (LOS) were calculated at six monitoring locations, and two scenarios were considered:
  - Scenario 1: Based on the **total existing traffic**
  - Scenario 2: Based on traffic **including the coal transportation trucks** from the said mines
9. During the study, it was observed that the LOS at all six locations was in Category “A”. There was no change in LOS after including coal transportation vehicles at four locations, while at the remaining two locations, the LOS slightly decreased from Category “A” to “B” due to addition of coal mine vehicles. Committee opined that, project proponent shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.
10. The Committee further deliberated on the air quality monitoring data and ambient noise quality data submitted by the Project Proponent for the environmentally sensitive locations along the said coal transportation road, and observed that all parameters of air quality and noise monitoring were found to be within the prescribed limits. The PP further submitted the mitigation measures proposed to be undertaken for transportation of coal by road for the said project, and the Committee opined that all mitigation measures shall be implemented in a time-bound manner.
11. The Committee also deliberated on the plantation carried out by the Project Proponent (PP) in the said project and opined that, plantation with native and fast-growing species shall be carried out on both sides of the entire coal transportation road within one year from the date of grant of amendment in EC.
12. The Committee observed that a court case (Case No. O.A. 233 of 2024 (SZ), dt: 04.10.2024) is pending before the Hon'ble NGT, Eastern Zone Bench, Kolkata regarding diversion of forest land, and opined that the Project Proponent shall abide by the final order of the Court in the said matter.
13. After detailed deliberation, Committee opined that the progress of closed conveyor and the rail network, needs to be monitored to ensure the timely completion of the same. In

view of this, the EAC opined to extend the time for road transportation of coal till December 2028 by taking necessary environmental protection measures.

**Recommendations of the Committee:**

**38.3.10:** 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. J-11015/49/2019-IA-II (M), dated 01.12.2021 and further amended vide letter dated 22.01.2024, as detailed below **subject to uploading of written submission and stipulation of following additional specific conditions**. Other terms and conditions prescribed in EC dated 01.12.2021 and its subsequent amendment dated 22.01.2024 shall remain unchanged:

Condition No. as per EC dated 01.12.2021, further amended vide EC dated 22.01.2024.	Description as per approved EC	Recommendation of EAC
EC Specific Condition No. 4 (ix) of EC dated 01.12.2021, further amended vide EC dated 22.01.2024.	<p><u>As per EC amendment dated 22.01.2024:</u></p> <p><i>“Transportation of coal from Mine to CHP be done by close conveyor system and from Coal Handling Plant shall be through mechanized covered trucks December, 2025. No transportation by trucks after December, 2025 years. Accordingly, SPCB shall issue the CTO”</i></p>	<p><b>Agreed.</b></p> <p>With regard to the changes in the said condition, Committee decided to modify it as follows:</p> <p><i>“Transportation of coal by road from mine to Jarapada railway siding using 29 km Chhendipada – Jarapada road is permitted till December 2028 by taking necessary environmental protection measures.”</i></p>

**Additional Specific Conditions:**

1. 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 route, within one year from the date of grant of amendment in EC.
2. As committed, following environmental control measures shall be followed:
  - Display adequate signboards at prominent locations prohibiting overtaking, visible to both incoming and outgoing vehicles.
  - Asphalt all internal approach roads, including loading and unloading points at Naini Coal Mine.
  - Ensure adequate turning radius at curves for loaded trucks (minimum 1.5 times the maximum vehicle length).
  - Provide adequate street lighting for safe movement of trucks during dark hours.
  - Provide bell-mouth shaped geometry at junctions to ensure smooth entry/exit and vehicle merging.
  - Install sufficient traffic signs and guide posts as per IRC guidelines.

- Provide separate pathways for pedestrians and cyclists to avoid interference with vehicular movement.
- Ensure clear road markings such as STOP lines, parking lanes, etc., to guide drivers.
- Regularly ensure the fitness of trucks deployed for coal transportation.
- Implement proper traffic management practices on all road stretches.
- Maintain all settlement stretches as Silence Zones and strictly prohibit use of horns, especially pressure horns.
- Mechanical sweeping machine shall be deployed.
- Trucks shall be covered with tarpaulin for coal transport.
- Possibility of deploying E-vehicles shall be explored.

3. 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.
4. Additional air pollution control measures should be taken along roads being used for the transport of coal including e-/CNG/LNG vehicles.
5. The Project Proponent shall abide by and comply with the final order/directions issued by the Hon'ble NGT in the Case No. O.A. 233 of 2024 (SZ), dt: 04.10.2024 and shall submit compliance status/report to the Ministry's RO along with the six monthly compliance report.

#### **Agenda No. 38.4:**

**38.4:** Kalyan Khani Opencast Project (having production capacity of 2 MTPA within the reduced ML area from 945.21 ha to 853.13 ha) by **M/s The Singareni Collieries Company Limited**, located near Mandamarri village and Mandal, Mancherial District (Erstwhile Adilabad), State: Telangana – Amendment in Environment Clearance – reg.

**[Online Proposal No. IA/TG/CMIN/562397/2026; Consultant: Environment Protection & Training Research Institute – NABET/EIA/24-27/RA0337 valid up to 21.01.2027]**

**38.4.1:** The instant proposal is for amendment in Environment Clearance granted to M/s Singareni Collieries Company Limited (SCCL) accorded vide letter no. J-11015/21/2009-IA-II(M), dated 19.03.2015 for Kalyan Khani Opencast Project with reduction in the ML area from 945.21 ha to 853.13 ha, having production capacity of 2 MTPA, located at District: Mancherial District (Erstwhile Adilabad); State: Telangana.

The instant proposal was previously submitted by the PP vide proposal no. IA/TG/CMIN/553721/2025, dated 30.09.2025 and the same was apprised by the EAC in its 35<sup>th</sup> EAC meeting held on 17-18<sup>th</sup> November 2025. The said proposal was returned in present form due to inadequacies in the application observed.

Now, the fresh proposal is again listed appraisal in the 38<sup>th</sup> EAC meeting held on 20-21 January 2026. The amendment is sought pertaining to the condition related to implementation of Conveyor Belt. The said condition has been amended vide letter dated 24.01.2020, 02.05.2022 and 05.02.2024. Further, the changes are also sought in certain paras of the EC due to the reduction in the lease area.

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

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

S. No.	Details of Letter No.	Amendment in EC/ Validity extension	Capacity (MTPA)	Area (Ha)	Date of issuance	Status of implementation
3.	J-1015/21/ 2009-IA- II(M)	EC	Normative - 1.75 (peak 2.00)	945.21	19.03.2015	Being implemented
4.					24.01.2020	
5.					02.05.2022	
6.		Amendment in EC			05.02.2024	

W.r.t the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from 2017 onwards. CTO renewal has been obtained from the SPCB and is valid up to 31.03.2027. Details of the same are as follows:

Year	Actual Coal Production in MTPA	Planned Coal production in MTPA as per Environmental Clearance	Excess Production
2017-18	1.01	Normative-1.75 (peak 2.00)	0
2018-19	0.79		0
2019-20	1.75		0
2020-21	1.34		0
2021-22	1.76		0
2022-23	1.84		0
2023-24	1.77		0
2024-25	1.33		0

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

Specific/ General Condition No.	Details of conditions as per EC	Amendment Sought	Justification
EC Specific Condition No. 4 (A) (iv) of EC dated 19.03.2015, further amended vide EC dated 24.01.2020, 02.05.2022 and 05.02.2024	<p><u>As per EC dated 19.03.2015:</u> Mechanical covered trucks should be used for transportation of coal within 5 years. Conveyor belt should be installed in 5<sup>th</sup> year.</p> <p><u>As per EC amendment dated 24.01.2020:</u> The said timeline was extended by further 2 years, i.e., upto 19<sup>th</sup> March 2022.</p> <p><u>As per EC amendment dated 02.05.2022:</u> The said timeline was further extended upto 31.12.2023.</p> <p><u>As per EC amendment dated 05.02.2024:</u></p>	Extension in timeline sought for another 2 years, i.e., upto October 2027.	<ul style="list-style-type: none"> <li>- SC railway has committed to complete the underpass by Dec' 2026 and hence, laying of belt conveyor network, separate track line, OHE, S&amp;T, etc. works may take at least one more year after completing the railway underpass. Hence, the total estimated time for completing the works will be 2 years.</li> <li>- In view of the above, it is requested to kindly extend the validity period under specific condition No.4. A. (iv) of EC for another two years i.e., up to October, 2027 permitting SCCL to continue with the existing system of transportation of coal by road mode.</li> </ul>

Specific/ General Condition No.	Details of conditions as per EC	Amendment Sought	Justification
	<i>The said timeline was further extended upto October 2025.</i>		
Land use pattern as per EC dated 19.03.2015	Mentioned in para 2(ii)	Mentioned below	Changes are envisaged due to reduction in the ML area as per the existing updated Mining Plan approved by the Ministry of Coal vide letter no. Kalyani Khani Opencast Project TEMCH/APP00196/2022, dated 18.08.2022

**Details of the revised mine plan and mine closure plan along with the justification for reduction in the ML area:**

**1. Comparison of the existing mine plan and the new mine plan:**

S. No.	Particulars	As per existing EC	As per approved Revised Mining Plan	Remarks
1	Project capacity	1.75 MTPA (2.00 MTPA - peak)	2.25 MTPA (3.375 MTPA -peak)	EC was obtained for an area of 945.21 ha with a production capacity 1.75 MTPA (2.00 MTPA -peak) on 19.03.2015.  KK OCP Mining Plan Including Mine Closure Plan with reduction in ML area from 945.21 ha to 853.13 ha has been approved by the MoC vide Ref. TEMCH/APP00196/2022 dated on 18.08.2022.  Terms of Reference (ToR) were obtained as per the revised Mining Plan for the reduced ML area of 853.13 ha and enhanced production capacity of 2.25 MTPA (3.375 MTPA - peak), vide File No. J-11015/21/2009-IA.II(M) dated 25.04.2023.
2	ML Area	945.21 ha	853.13 ha	The ML area was rationalized from 945.21 ha to 853.13 ha by excluding approximately 92.08 ha of non-coal bearing area through optimization of dump sequencing and re-organization of the nallah diversion, thereby improving land-use efficiency.
3	Excavation area	363.23 ha	363.30 ha	Increased by 0.07 ha
4	External Dump	259.44 ha	213.64 ha	An extent of 45.80 ha has been reduced as a result of optimum utilization and rationalization of dump placement within the mining lease area.
5	Safe barrier, drainage, Roads, nalah, Service building and others	322.54	276.19	An extent of 46.35 ha of non-coal bearing land has been excluded from the project area resulting in reduction in land requirement.
6	Stripping ratio (m <sup>3</sup> / Tonne)	11.97	12.00	Slightly changed due to revision of coal/ OB quantities
7	Extractable Reserves	30.54 MT (as on 19.03.2015)	23.88 MT (as on 01.04.2023)	The balance mineable reserves as on 01.04.2023 are 23.88 MT.

S. No.	Particulars	As per existing EC	As per approved Revised Mining Plan	Remarks
8	Mining Technology	Shovel – Dumper Combination	Shovel – Dumper Combination	Coal extraction is being carried out using Shovel – Dumper Combination
9	Mine Life	19 years (as on 19.03.2015)	12 years (As on 01.04.2023)	As per the latest Mine Plan and Mine Closure Plan

Following are the changes envisaged in the EC due to change in ML area:

Ref erence of EC	Details as per the EC	Amendment Sought as per the latest mine plan																																																																																																																																																																																																																																	
Subject	Kalyan Khani OCP (1.75 MTPA Normative and 2 MTPA Peak) in an ML area of <b>945.21 ha</b> of M/s The Singareni Collieries Co. Ltd. located in dist. Adilabad, Telangana – Environmental Clearance – reg.	Kalyan Khani OCP (1.75 MTPA Normative and 2 MTPA Peak) in an ML area of <b>853.13 ha</b> of M/s The Singareni Collieries Co. Ltd. located in dist. Adilabad, Telangana – Environmental Clearance – reg.																																																																																																																																																																																																																																	
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Reference of EC	Details as per the EC										Amendment Sought as per the latest mine plan									
Par a 2 (iii)	Quarry Area	363.23	0	36.3.23	103.73	0	10.3.73	25.9.50	0	25.9.50	Quarry Area	363.30	0	36.3.30	363.30	0	36.3.30	0	0	0
	OB Dump	259.44	0	25.9.44	102.50	0	10.2.50	15.6.94	0	15.6.94	OB Dump	213.64	0	21.3.64	213.64	0	21.3.64	0	0	0
	Others	322.54	0	32.2.54	39.94	0	39.94	28.2.60	0	28.2.60	Others	276.19	0	27.6.19	276.19	0	27.6.19	0	0	0
	Total	945.21	0	94.5.21	246.17	0	24.6.17	69.9.04	0	69.9.04	Total	853.13	0	85.3.13	853.13	0	85.3.13	0	0	0
Par a 2 (vi)	The total geological reserve is 45.318MT. The mineable reserve is 40.790 MT, extractable reserve is 30.540 MT. The per cent of extraction would be 90%.										The total geological reserve is 45.318 MT. The mineable reserve is 40.79 MT, extractable reserve is 23.88 MT (as on 01.04.2023). The percent of extraction would be 90%.									
Par a 2 (ix)	The life of mine is 19 Years.										The life of mine is 12 Years.									
Par a 2(xvi)	Total afforestation plan shall be implemented covering an area of 683.02 ha at the end of mining where reclaimed external OB dump is 238.04 Ha and Internal OB Dump 172.80 ha. Green Belt over an area of 272.18 ha. Density of tree plantation 2500 trees/ ha of plants.										Total afforestation plan shall be implemented covering an area of 535.76 ha at the end of mining where reclaimed external OB dump is 213.64 Ha and Internal OB Dump 184.13 ha. Green Belt over an area of 137.99 ha, Density of tree plantation will be 2500 trees/ ha.									
Par a 3(i)	Mine plan approval has been obtained vide letter no. 13016/13/2009-CA.II dated 19.11.2014 and submitted to the Ministry on 06.01.2015.										Previous Mine plan approval has been obtained vide letter no. 130 16/13/2009-CA.II dated 19.1.2014 and submitted to the Ministry on 06.01.2015. Subsequently, revised Mining Plan including Mine Closure Plan with reduction in ML area from 945.21 ha to 853.13 ha has been approved by the MoC vide Ref. TEMCH/APP00196/2022 dated on 18.08.2022.									

#### 38.4.4: Justification for extension in timeline for installation of conveyor belt:

##### iv. Chronology of the activities undertaken and in progress

###### Completed:

1. Procurement of Gear Heads, Reciprocating Feeder - 800TPH
2. Belt conveyor structures, Procurement of EPFR 1400 mm belt
3. Service order for Erection and commissioning of belt conveyor and connected Plant & Machinery
4. Sleepers and Belt structure laying, Drive Head foundation, Gantry Fabrication work
5. Sub -station construction for C2

###### Completing by July' 2026:

1. Erection of conveyor gantry, TH1, Loop take up (C-1) & Tail end erection
2. 800 TPH RC feeder erection

3. Sleepers laying and belt stools heightening and erection up to Underpass Bridge with box pushing technology.
4. Completion of foundations for C2 Gantry, loop take up, tail end of C2, C2 belts and drive head sheds & Erection of C2 Gantry, Drive head, Loop take up, C2A tail end
5. Laying of railway track at railway siding

**Completing by January' 2027**

1. Construction of underpass

**Completing by October' 2027**

1. Completion of foundations for C2A drive head, Gantry, loop take up, TH2A, belts and drive head sheds & Erection of C2A Drive head, Loop take up, tail end and gantry, TH2A erection
2. Erection of C3 drive head, tail end, belt structures laying and belt laying
3. OHE and S&T

**v. Justification for the extension of timeline**

- a. After obtaining EC amendment on 05.02.2024 for transportation of coal by road mode, SCCL requested SC Railway Authorities to accord necessary approvals and also take up the work of construction of railway under pass with Box pushing Technology below existing / running UP & Down main lines of Balharshah-Kazipet route.
- b. SC Railway finalized the design parameters and submitted cost estimates for an amount of Rs.10.50 Crores for the proposed railway under pass with Box pushing Technology in the month of Aug-2025 with timelines for probable completion of same by Dec-2026.
- c. SCCL has awarded the work of erection of main line and loop line to M/s. SRC Co. Pvt. Ltd for an amount of Rs.57.63 Cr. and work is scheduled to be completed by Oct-2025. However, due to heavy rains during current monsoon season, the total rainfall recorded so far during monsoon season of 2025 is 1732 mm the work was hampered and is likely to be completed by July-2026.
- d. Further, erection of the belt, construction of gantries and other structures beyond C-2 belt can be taken up only on completion of the Underpass Bridge by SC Railways and may take another 10 months for their completion i.e. Oct, 2027.

**vi. Present status of installation of conveyor:**

**Erection of Belt conveyor from KK OC to KK-1 CHP:**

- a. Work order for erection of all the four belts was placed and material was also shipped to the site.
- b. About 90% of works related to erection of Section C1 belt was completed.
- c. Preparatory works for erection of C2, C2A & C3 Section belts were also completed.
- d. The erection works of these belts could not be started as they are interlinked with construction of underpass by Railway Authorities.

**38.4.5: Present and proposed Coal evacuation system:**

**A. Mode of transportation till 31.10.2027:**

The method of transportation being followed for the said mine is as follows:

Location	Method of transportation
From in-pit to KKOC CHP	by Dumpers (60 T)
KKOC CHP to RKP CHP	by Trucks covered with tarpaulin (through road of 11 km)
RKP CHP to loading in wagons	by Belt conveyor
The final consumer	by Rail mode

**B. Mode of transportation after 31.10.2027:**

The method of transportation being followed for the said mine is as follows:

Location	Method of transportation
From in-pit to KKOC CHP	by Dumpers (60 T)
KKOC CHP to KK-1 CHP	by Belt conveyor
KK-1 CHP to loading in wagons	by Belt conveyor
The final consumer	by Rail mode

**38.4.6: Traffic Assessment Study Report:**

**Traffic Volume and Capacity of the Road:**

Location	Existing Traffic			Excluding KK OC Traffic		
	No of PCU's	V/C	LoS	No of PCU's	V/C	LoS
KK OC project to Mancherial main road	450.5 (Peak:10-11)	0.125	A	409	0.113	A
Mancherial main road to Mandarmmari Godavari Khani road	280 (Peak:8-9)	0.186	A	238	0.158	A
Mandarmmari Godavari Khani road RKP CHP	225 (Peak:17-18)	0.15	A	183	0.122	A
Location-I is 4 lane (Two way) as per IRC : 106 -1990 – 3600 PCUs e.g. 463/3600=0.129 Remaining all locations are 2 lane two way road 1500 281/1500= 0.187 No of PCUs from Mine to RKP CHP considered 21x2=42 during peak hour						

**Ambient Air Quality monitoring:**

The monitoring details at the environmental sensitive locations for the period of June to August'2025.

Locations	$\mu\text{g}/\text{m}^3$												
	PM <sub>10</sub>			PM <sub>2.5</sub>			SO <sub>2</sub>			NO <sub>2</sub>			
	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.	Avg.	Max.
KK Pit office (Core)	162	176	169.5	62.6	71.2	65.9	15.8	17.1	16.4	18.1	20.2	19.2	BDL
RKP CHP (Core)	112	179	162.2	35.9	71.8	62.3	10.2	16.6	15.2	13.2	19.8	18.2	BDL
Mandamarri colony (Buffer)	51	62	56.0	25.6	29.7	27.9	10.7	11.6	11.2	13.8	14.7	14.2	BDL
Ramakrishnapur colony (Buffer)	43	54	48	21.8	26.8	23.6	10.4	11.2	10.8	13.0	14.2	13.7	BDL
Standards	Core- 250, Buffer - 100			Core - NS, Buffer - 60			Core- 120, Buffer - 80			Core- 120, Buffer - 80			2.0 $\text{mg}/\text{m}^3$

**Ambient Noise Quality:**

Location Code	Name of the Location	Date of Sampling	Standard limits of Noise dB (A)		Noise levels in dB (A)	
			Day time	Night time	Leq Day	Leq Night
<b>Core Zone</b>						
N1	KKOC Pit office	21.08.2025	75	70	59.5	49.7
N2	RKP CHP	22.08.2025	75	70	65.2	56.4
<b>Buffer Zone</b>						
N3	Mandamarri	19.08.2025	55	45	50.0	39.7
N4	Ramakrishnapur colony	25.08.2025	55	45	48.7	38.7

**Mitigation measures being undertaken and further proposed:**

**Mitigation measures being undertaken:**

- Regular dust suppression near loading and unloading points.
- Dust suppression at hoppers, CHP and approaches to CHP area.
- Mist spray arrangement at all dry material conveying and transfer points.
- All the permanent internal Roads have been asphalted.
- Loading coal transport trucks up to brim level only.
- Coverage of coal transport trucks with tarpaulin to avoid coal spillage.

**Additional measures proposed for dust control:**

- At present 6 no. of fog canons are in operation at CHPs. Additional 4 nos. of fog cannons will be provided at KK CHP (2 nos.) and RKP CHP (2 nos.).
- Unloading point will be covered to prevent dust becoming air-borne.
- Fixed water sprinkling points will be increased near the CHPs and coal yard.
- Dense green belt with 3 tier plantation will be developed between CHPs and main roads.
- Mechanical sweeping machine will be deployed for cleaning of the roads.

**38.4.7: Details of pending 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 Eevam Samvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, PP has submitted the details of cases which are not related to environment.

**Observations and deliberation of the Committee:**

**38.4.8: The EAC noted the following:**

1. M/s Singareni Collieries Company Limited (SCCL) has submitted an online application seeking amendment in the Environment Clearance (EC) for Kalyan Khani Open Cast Coal Mining Project (having production capacity of 2 MTPA within the reduced ML area from 945.21 Ha to 853.13 Ha), located near Mandamarri village and Mandal, Mancherial District (Erstwhile Adilabad), State: Telangana.
2. The proposal was earlier submitted by the Project Proponent (PP) and was appraised in the 35th EAC meeting held on 17–18 November 2025. The proposal was returned in its present form due to inadequacies observed in the application by the EAC. A fresh proposal has now been submitted and is again listed for appraisal in the 38th EAC meeting held on 20-21 January 2026.
3. The above-mentioned project became operational from 2017 onward and the same is under implementation as on date.

4. The instant project has been submitted for seeking amendment in Specific Condition No. 4 (A) (iv) of EC dated 19.03.2015, further amended vide EC dated 24.01.2020, 02.05.2022 and 05.02.2024. As per EC dated 19.03.2015, it was stipulated that, “*Mechanical covered trucks should be used for transportation of coal within 5 years. Conveyor belt should be installed in 5th year.*” However, as per the latest amendment (i.e., EC dated 05.02.2024), the said timeline was extended upto October 2025. Now, the PP has sought further extension for another 2 years, i.e., up to October 2027 for installation of conveyor belt.
5. The Committee sought justification for seeking the extension in timeline for conveyor belt installation and observed that, after obtaining EC amendment dated 05.02.2024 for transportation of coal by road mode, SCCL approached South Central (SC) Railway authorities for, necessary approvals, and construction of a railway underpass using box pushing technology below the running up/down main lines of Ballarshah-Kazipet route. After finalizing design parameters, SC Railway submitted the cost estimate for the proposed underpass construction and indicated a probable completion timeline of December 2026. SCCL awarded the work for erection of main line and loop line to M/s SRC Co. Pvt. Ltd., which was originally scheduled to be completed by October 2025. However, due to heavy rains during current monsoon season, work was hampered and the revised expected date of completion submitted by the PP is July 2026. Further, PP submitted that, erection of belt, construction of gantries, and other structures beyond the C2 belt can be taken up only after completion of the underpass bridge by SC Railways. Post underpass completion, an additional ~10 months will be required for completing remaining works. Hence, the completion of work is expected by October 2027.
6. Further, Committee deliberated on the present status of installation of conveyor system from KKOC to KK1 CHP and observed that, work order for erection of all four belt conveyors has been placed, required material has already been shipped to the site, 90% of the erection work of Section C1 belt has been completed, preparatory works for erection of C2, C2A and C3 belt sections have also been completed. However, erection work for C2, C2A and C3 belts could not be started, as these sections are interlinked with the construction of railway underpass by the Railway authorities.
7. The Committee further deliberated on the present and proposed coal evacuation system and observed the following:
  - A) Coal Evacuation System (As of now & up to 31.10.2027)
    - In-pit → Pit head KKOC CHP: Transportation by dumpers
    - Pit head KKOC CHP → RKP CHP: Transportation by tarpaulin covered trucks through road of 11 km.
    - RKP CHP → Wagon loading: By belt conveyor
    - Wagon loading → Final consumer: By rail mode
  - B) Coal Evacuation System (After 31.10.2027)
    - In-pit → Pit head KK CHP: Transportation by dumpers
    - Pit head KK CHP → KK1 CHP: By belt conveyor
    - KK1 CHP → Wagon loading: By belt conveyor
    - Wagon loading → Final consumer: By rail mode
8. The Committee deliberated on the Traffic Assessment Study Report submitted by the Project Proponent (PP) for the instant project and observed that, the traffic assessment study was carried out on three roads/routes used for coal transportation, namely - KKOC Project → Mancherial Main Road, Mancherial Main Road → Mandamarri-Godavarikhani Road and Mandamarri-Godavarikhani Road → RKCHP. The traffic

assessment study was conducted considering existing traffic and excluding the KKOC project traffic. It was observed that the Level of Service (LOS) in both cases was in Category "A". However, the Committee opined that project proponent shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those equipments is regularly carried out.

9. The Committee deliberated on the ambient air quality monitoring and ambient noise quality monitoring at environmentally sensitive locations of the project area, considering the impact due to coal transportation by road and observed that, parameters of both were found to be within the prescribed limits. However, Committee opined that, PP shall carryout dense plantation along the coal transportation roads with native and fast-growing species, with saplings of not less than 4 feet height.
10. The Committee deliberated on the changes proposed in the EC dated 19.03.2015 on account of reduction in Mine Lease (ML) area and observed that, Project Proponent (PP) has obtained Terms of Reference (ToR) based on a revised mining plan for reduced ML area of 853.13 ha and enhanced production capacity of 2.25 MTPA. The ToR was obtained vide file no. J-11015/21/2009-IA.II(M) dated 25.04.2023. Although the proposal for obtaining Expansion EC is yet to be submitted, it was noted that as per the new mining plan approved by the Ministry of Coal vide reference no. TEMCH/APP00196/2022 dated on 18.08.2022. The proposed changes include modifications in Mining lease area, Excavation area, External dump, Safety barrier, Drainage roads, Nala, Service buildings and other infrastructure, Stripping ratio, extractable reserves, mine life. The changes proposed are as mentioned in para 38.4.3 above. Accordingly, changes have been proposed in certain paragraphs of the EC dated 19.03.2015, details of which are as follows:
11. Committee observed that there are no court cases pending on the project.

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

**38.4.9:** 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. J-11015/21/2009-IA-II(M), dated 19.03.2015, further amended vide letter dated 24.01.2020, 02.05.2022 and 05.02.2024, as detailed below **subject to stipulation of following additional specific conditions and uploading of written submissions**. Other terms and conditions prescribed in EC dated 19.03.2015 and its subsequent amendments dated 24.01.2020, 02.05.2022 and 05.02.2024 shall remain unchanged:

<b>Para/ Condition No. as per EC dated 19.03.2015 and its amendment</b>	<b>Description as per approved EC</b>	<b>Recommendation of EAC</b>
EC Specific Condition No. 4 (A) (iv) of EC	<u>As per EC dated 19.03.2015:</u> <i>"Mechanical covered trucks should be used for transportation of coal within 5 years. Conveyor belt should be installed in 5<sup>th</sup> year."</i>	<b>Agreed.</b> With regard to the changes in the said condition, Committee decided to modify it as follows:

Para/ Condition No. as per EC dated 19.03.20 15 and its amendment	Description as per approved EC	Recommendation of EAC																																																																																																																																																																																																																
dated 19.03.20 15, further amended vide EC dated 24.01.20 20, 02.05.20 22 and 05.02.20 24	<p>As per EC amendment dated 05.02.2024:</p> <p><i>“The said timeline was further extended upto October 2025.”</i></p>	<p><i>“Coal is allowed to be transported by road from KK OC in-pit CHP to RKP CHP through road of 11 km till October 2027, taking necessary environmental protection measures. Thereafter entire coal from KK OC CHP to KK1 CHP and further to loading shall be transported by belt conveyor followed by rail mode to the final consumers. No road transportation of coal is permitted after October, 2027”</i></p>																																																																																																																																																																																																																
Subject of EC dated 19.03.20 15	<p>Kalyan Khani OCP (1.75 MTPA Normative and 2 MTPA Peak) in an ML area of <b>945.21 Ha</b> of M/s The Singareni Collieries Co. Ltd. located in dist. Adilabad, Telangana – Environmental Clearance – reg.</p>	<p>With regard to the changes in the said para, Committee decided to modify it as follows:</p> <p><i>“Kalyan Khani OCP (1.75 MTPA Normative and 2 MTPA Peak) in an ML area of <b>853.13 Ha</b> of M/s The Singareni Collieries Co. Ltd. located in dist. Adilabad, Telangana – Environmental Clearance – reg.”</i></p>																																																																																																																																																																																																																
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Para 2 (iii) of EC dated 19.03.2015	The total geological reserve is 45.318MT. The mineable reserve is 40.790 MT, extractable reserve is 30.540 MT. The percent of extraction would be 90%.	With regard to the changes in the said para, Committee decided to modify it as follows:  <i>"The total geological reserve is 45.318 MT. The mineable reserve is 40.79 MT, extractable reserve is 23.88 MT (as on 01.04.2023). The percent of extraction would be 90%."</i>																																																																																																											
Para 2 (vi) of EC dated 19.03.2015	There are three external OB dump covering an area of 259.44 Ha having a height upto 90 m with the quantity of 112.05 mm3. The final mine voids will have an area of 190.43 Ha with 230 m depth agl. There are one internal dumps having an area of 217.18 Ha and height 90 m.	With regard to the changes in the said para, Committee decided to modify it as follows:  <i>"Out of total quarry area 363.30 Ha backfilled quarry area will be 184.13 Ha which shall be reclaimed with plantation. A void of 179.17 Ha with depth of about 230 m is proposed to be converted into water body."</i>																																																																																																											
Para 2 (ix) of EC dated 19.03.2015	The life of mine is 19 Years.	With regard to the changes in the said para, Committee decided to modify it as follows:  <i>"The life of mine is 12 Years."</i>																																																																																																											
Para 2(xvi) of EC dated 19.03.2015	Total afforestation plan shall be implemented covering an area of 683.02 Ha at the end of mining where reclaimed external OB dump is 238.04 Ha and Internal OB Dump 172.80 Ha. Green Belt over an area of 272.18 ha. Density of tree plantation 2500 trees/ ha of plants.	With regard to the changes in the said para, Committee decided to modify it as follows:  <i>"Total afforestation plan shall be implemented covering an area of 535.76 Ha at the end of mining where reclaimed external OB dump is 213.64 Ha and Internal OB Dump 184.13 Ha. Green Belt over an area of 137.99 ha, Density of tree plantation will be 2500 trees/ Ha."</i>																																																																																																											

Para/ Condition No. as per EC dated 19.03.2015 and its amendment	Description as per approved EC	Recommendation of EAC
Para 3(i) of EC dated 19.03.2015	Mine plan approval has been obtained vide letter no. 13016/13/2009-CA.II dated 19.11.2014 and submitted to the Ministry on 06.01.2015.	<p>With regard to the changes in the said para, Committee decided to modify it as follows:</p> <p><i>"Previous Mine plan approval has been obtained vide letter no. 130 16/13/2009-CA.II dated 19.1 1.2014 and submitted to the Ministry on 06.01.2015. Subsequently, revised Mining Plan including Mine Closure Plan with reduction in ML area from 945.21 ha to 853.13 Ha has been approved by the MoC vide Ref. TEMCH/APP00196/2022 dated on 18.08.2022."</i></p>

**Additional Specific Conditions:**

1. Project proponent shall carryout 3 tier plantation using native and fast-growing species with saplings of height not less than 4 feet on both the sides of the coal transportation route, within 1 year from the date of grant of amendment in EC.
2. As committed, following environmental control measures shall be followed:
  - The Project Proponent shall ensure that 6 (six) fog cannons are operated continuously at the Coal Handling Plants (CHPs). Additionally provide 4 (four) more fog cannons, i.e., 2 (two) at KK CHP and 2 (two) at RKP CHP, to further control fugitive dust emissions.
  - The Project Proponent shall ensure that the coal unloading point is fully covered/ enclosed with suitable arrangements to prevent dust from becoming airborne during unloading operations.
  - The Project Proponent shall increase the number of fixed water sprinkling points in and around the CHPs and coal yard, and maintain them in operational condition for effective dust suppression.
  - The Project Proponent shall develop and maintain a dense green belt with 3-tier plantation of native species between the CHPs and the main roads, as a barrier for dust and noise control, within 1 year from the date of grant of EC.
  - The Project Proponent shall deploy a mechanical sweeping machine for regular cleaning of roads used for coal transportation and plant operations to minimize re-suspension of dust, within 1 year from date of grant of EC.
3. 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.

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

**Agenda No. 38.5:**

**38.5:** Expansion of New Majri UG to OC Mine (increase in production capacity from 3.00 MTPA to 3.60 MTPA with reduction in the ML area from 706.28 Ha to 679.26 Ha) by **M/s Western Coalfields Limited**, located at village: Shivjinagar; Tehsil: Bhadrawati; District: Chandrapur; State: Maharashtra - **Environment Clearance for first phase of 20% expansion as per the MoEF&CC OM dated 11/04/2022 – reg.**

**[Online Proposal No. IA/MH/CMIN/560399/2025; File No. J-11015/25/2008-IA-II(M); Consultant: CMPDIL: NABET/EIA/25-28/RA 0412 valid till 08/04/2028]**

**38.5.1:** M/s Western Coalfields Limited has made an online application vide proposal no. IA/MH/CMIN/560399/2025 dated 03.12.2025 along with copy of EIA/EMP report, Form and Certified compliance report seeking expansion in Environment Clearance (EC) under the provisions of the EIA Notification, 2006, for the project mentioned above. The proposed project activity is listed at schedule no.1 (a) under Category “A” of the schedule of the EIA Notification, 2006. The project does not attract general conditions.

The project of M/s Western Coalfields Ltd is a brownfield project for expansion of production capacity from 3.00 to 3.60 MTPA, for the first phase of 20% expansion as per Ministry's OM dated 11.04.2022, with reducing the existing mine lease area of 706.28 Ha to 679.26 Ha located at Village: Shivjinagar, Tahsil: Bhadrawati, District: Chandrapur.

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

S. No.	Details of Letter No.	EC/ Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC	Capacity (MTPA)	Area (Ha)	Date of issuance	Status of implementation
1	J-11015/25/2008-IA.II(M)	Fresh EC	0.80	479.16	18.02.2011	Implemented
2	J-11015/25/2008-IA.II(M)	EC Expansion	1.20	479.16	13.02.2017	Implemented
3	J-11015/25/2008-IA.II(M)	EC Amendment	1.20	479.16	30.11.2017	Implemented
4	J-11015/25/2008-IA.II(M)	EC Expansion	3.00	706.28	01.01.2021	Being Implemented

The mine is under operation since 2015-16 based on the consent from the State Pollution Control Board. CTO renewal has been obtained from the SPCB vide letter no. Format1.0/CAC/UAN No. 0000196592/CR/2503000952 and is valid up to 31.03.2026

Year	EC Capacity (MTPA)	Actual Coal production (Million tonnes)	Excess production beyond the EC sanctioned capacity (Million tonnes)
2015-16	0.80	0.80	0
2016-17	1.20	1.20	0
2017-18	1.20	1.20	0
2018-19	1.20	1.20	0
2019-20	1.20	1.20	0
2020-21	3.00	1.88	0
2021-22	3.00	1.92	0
2022-23	3.00	1.86	0

Year	EC Capacity (MTPA)	Actual Coal production (Million tonnes)	Excess production beyond the EC sanctioned capacity (Million tonnes)
2023-24	3.00	1.53	0
2024-25	3.00	3.00	0

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

**38.5.3: Certified Compliance Report:** The certified compliance report was obtained from Regional Office; MoEF&CC, Nagpur vide letter no: 607/RON/2017-NGP-14857 dated 17.11.2025 for the existing EC. The Action taken report regarding the non-complied condition was submitted to Regional Officer MoEF&CC, Nagpur vide letter no. 2025-26/1598 dated 20.11.2025.

S. No	Partially complied / Non-compliance details	Observation of RO (abridged)	EC date	Specific/ General	Response of PP
<b>With reference to the letter no. J-11015/25/2008-IA. II (M) dated 01.01.2021</b>					
1	Toe wall of at-least 15 mts height should be constructed along the OB dump.	Not Complied It is reported that, as per the assessment carried out by VNIT, Nagpur, considering the dump height, remedial measures implemented by the mine, and other geological parameters evaluated during the field investigation, there is no requirement for a toe wall of 15-20 meters height. Additionally, a buffer distance of approximately 50 meters has been maintained between the OB dump and	01.01.2022	Specific condition 4(xviii)	<p><i>To ascertain the requirement of Toe Wall of height 15 mtr along the OB dump, a scientific study was conducted by VNIT, Nagpur. (Work order issued vide no. WCL/MA/AGM/ENV/2023/198 dated 02.09.2023)</i></p> <p><i>VNIT Nagpur has clearly mentioned in its study report that:</i></p> <p><i>Quote “It is worth mentioning that the EC requirement of constructing a toe wall of 15 m height to resist an OB Dump of about 55 m high may not be an economically viable solution, in contrast to the effective implementation of above remedial measures and stringent continuous monitoring.” Unquote</i></p> <p><i>Based on the recommendations and observations of the study report submitted by VNIT Nagpur, the following remedial measures have been undertaken:</i></p> <p><i>A 1.5 m high toe wall has been constructed along the OB dump near the confluence point of the nala along with stone pitching on the slope and garland drain at the toe of the nala. (Work order issued vide no. WCL/MA/AGM/CIVIL/F.N.1575/2025-26/283 dated 03.08.2025)</i></p> <p><i>A minimum distance of 50 m has been maintained between the OB Dump and the adjacent nala is also maintained. Trench filled with hard material/ OB is also made to strengthen the toe of the dump.</i></p> <p><i>Plantation between OB dump &amp; Nala has been done. Plantation on top soil dumps is also done and top soil dumps are completely</i></p>

S. No .	Partially complied / Non-compliance details	Observation of RO (abridged)	EC date	Specific/ General	Response of PP
		the adjacent nala and also, garland drain and toe wall of height about 1.5 mtrs is constructed near the confluence point of nala. In view of the above, PP is advised to take necessary action to seek amendment of the relevant EC condition accordingly.			<p><i>reclaimed. (Plantation done through Madhya Pradesh Rajya Van Vikas Nigam Ltd.) Grass seeding on the dump slope has been carried out to improve stability and promote vegetation cover. (Work order issued vide no. WCL/MA/AGM/CIVIL/F.N.1469/WO/81/2024 -25 dated 25.11.2024)</i></p> <p><i>Plantation on dump is being done. Additionally, 5 Ha/year for the next 5 yrs will also be done to reclaim the External Hard OB dump. Also, deepening of garland before the onset of monsoon will also be done every year.</i></p>

#### 38.5.4: Compliance of Ministry's OM dated 11.04.2022

S. No	OM Condition	Compliance
I	The project should have gone through the public hearing process, at least once, for its existing EC capacity on which expansion is being sought, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments.	The last Public hearing has been conducted on 12.12.2019 for increase in production capacity from 1.20 MTPA to 3.00 MTPA increase in land area from 479.16 ha to 706.28 ha at Community Hall, WCL Kuchna Housing Complex, Bhadrawati Tehsil, Chandrapur district, under the chairmanship of Additional District Magistrate.
Ii	There should not be change in Category of the project from 'B2' to BV or 'A' due to proposed modernization or expansion.	There is no change in category of the project. It is a Category A project.
Iii	There is no additional land acquisition or forest land diversion involved for the proposed expansion or there is no increase in lease area with regard to mining vis-a-vis the area mentioned in the EC, based on which public hearing has been held earlier.	There is no additional land acquisition or forest land diversion involved in the the proposed expansion or there is no increase in lease area with regard to mining vis-à-vis the area mentioned in the EC, based on which public hearing has been held earlier.
Iv	The proposed expansion shall not be more than 50% of production capacity as mentioned in the prior EC, issued on the basis of public hearing held and the same shall be allowed in minimum three phases.	The EIA/EMP is prepared for expansion up to 50% under 7 (ii) clause of EIA notification 2006 and OM. dated 11.04.2022 from 3 MTPA to 4.5 MTPA. The current proposal is for 20% expansion i.e. Phase I from 3.0 MTPA to 3.6 MTPA (20% of 3.0 MTPA).
V	Predicted environmental quality parameters arising out of proposed expansion/modernization shall be within the prescribed norms and the same shall be maintained as per prescribed norms.	Air Quality Impact prediction has been done for the peak production of 4.5 MTPA. The parameters selected for the modeling are PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> . The predicted values of the above parameters are well within the permissible limits.
Vi	The proposed expansion should not result in reduction in the greenbelt area as stipulated in the earlier EC, or if the existing ratio of	The proposed expansion will not result in reduction in greenbelt area below 33% due to expansion.

S. No	OM Condition	Compliance
	greenbelt is more than 33%, after expansion it should not reduce below 33%.	The proposed plantation will be done in 225 ha out of 679.26 ha area which accounts for 33.12% green belt.
vii	The project proponent should have satisfactorily complied the conditions stipulated in the existing EC(s) and satisfactorily fulfilled all the commitments made during the earlier public hearing/ consultation proceedings and also the commitments given while granting previous expansion, as may be applicable. This shall be duly recorded in the certified compliance report issued by the IRO/CPCB/ SPCB, which should not be more than one-year-old at the time of submission of application.	The project proponent have satisfactorily complied the conditions stipulated in the existing EC and satisfactorily fulfilled all the commitments during the earlier public hearing proceedings. The project was inspected by the Regional Office, MoEF&CC, Nagpur on 27.10.2025 and CCR was issued vide letter no. EC-607/RON/2017-NGP-14857 dtd. 17.11.2025. Action taken report with respect to the issued CCR was submitted by the project proponent vide letter no. WCL/ MA/ Dy.GM / New Majri SA / PA / 2025-26 / 1598 dtd. 20/11/2025.
viii	Public Consultation shall be undertaken [if applicable as per table below] by obtaining response in writing, as per para 7 III (ii) (b) of EIA Notification 2006, except those category of projects which have been exempted as per para 7 III (i) of EIA Notification 2006 and its amendments.	No new Public Consultation shall be undertaken as there is no additional land required in the proposed project. The proposal has been applied for 20% expansion in first phase only. The public hearing has been successfully completed for production capacity of 3.00 MTPA on 12.12.2019 and based on public hearing EC was issued on 01.01.2021 for 3.00 MTPA. As per the OM dated 11.04.2022, the project is in scenario-II. In Scenario-II (upto 20% expansion), the fresh public consultation is not required.
IX	Effluent monitoring including air quality monitoring systems as specified in the existing EC, if stipulated, should have been installed.	Routine Environment Monitoring is being carried out for the existing New Majri UG to OC Mine. For air, water and noise, the samples are being collected and tested round the year with appropriate frequency at strategic places.  In compliance with existing EC, 1 no. of CAAQMS along with MET station is operational in mine core zone. 1 number of CAAQMS is operational in Buffer zone in the downwind direction of the mine

### 38.5.5: Environmental Site Settings:

The project area is covered under Survey of India Topo Sheet No 55 P/4 and is bounded by the geographical coordinates ranging from Latitude 20°06'34" N to 20°08'37" N and Longitudes 79°00'30" E and 79°02'20" E.

Project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI assessment 2018. PP submitted that a certificate has been issued from the Sub-Regional Officer, Maharashtra Pollution Control Board, Chandrapur vide letter no. MPCB/SROC/TB/B-1087 dated 29.10.2025, detailing the aerial distances of the said project from CEPI notified areas. The project is about kms away from the nearby CEPI Area.

The distance from CEPI Areas is as follows:

- MIDC Tadali about 23 kms
- MIDC Ghuggus about 25 kms
- MIDC Chandrapur about 27.5 kms
- MIDC Ballarpur about 45 kms

**Mining Lease:** PP submitted that the total ML Area is 679.26 Ha. Out of 679.26 Ha of mine lease area, 655.51 Ha has been acquired under CBA (A&D) Act, 1957 and 23.75 Ha is direct purchase.

The land acquisition details are provided below:

S. No.	Acquisition mode/ Govt. Order/ Notifications as the case may be	SO No.	Date	Total Area acquired (Ha)
1	CBA (A&D) Act – Section 9	2991	18.10.2011	431.27
	CBA (A&D) Act – Section 11	2311	05.07.2012	
2	CBA (A&D) Act – Section 9	965	13.10.2022	224.24
	CBA (A&D) Act – Section 11	1399	30.12.2022	
3	Direct Purchase			23.75
	<b>Total</b>			<b>679.26</b>

#### Land requirement details of the project:

Nature of land involved	Existing Area (Ha)	Additional area (Ha)	Total Area required after expansion (Ha)
Non-Forest Land	706.28	-27.02	679.26
Forest Land	0	0	0
<b>Total</b>	<b>706.28</b>	<b>-27.02</b>	<b>679.26</b>

**Forest Area:** There is no forest land involved in the said project.

**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. However, the PP reported that the project is located about 26 km from the Tiger Reserve i.e. the Tadoba Andheri Tiger Reserve.

PP submitted that Wildlife Conservation Plan has been prepared for 8 nos. Schedule – I species namely Jackal (Canis Aureus), Tiger (Panthera Tigris), Porcupine (Hystrixindica), Python Indian (Python Molurus), Cobra (Naja Naja), Rat Snake (Ptyas Mucosa), Russel's Viper (Daboia russelii), Indian Peafowl (Pavocrista). A Site-Specific Wildlife Conservation Plan has recommended by CCF, Chandrapur vide letter no. kaksh-3(1)/jameen/pr.kr.689/2025-26/1325 dated 21.11.2025 and APCCF (WL), Nagpur vide letter no. kaksh-1(B)/Survey/pr.kr.315/991/2025-26 dated 14.01.2026 for an amount of Rs. 700.00 lakhs. Same is in consideration at the office of PCCF (Wildlife), Nagpur.

#### Other Sensitive Receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)			
	S. No.	Habitation	Distance in km	Direction (w.r.t to mine boundary)
i. Habitation	1.	Naglon	0.2 km	North
	2.	Palasgaon	0.3 km	North
	3.	Shivjinagar	0.1 km	East
	4.	Patala	0.2 km	West
	5.	Majri	1 km	East
	6.	Kuchna	1 km	North
	7.	Mangaon	1.4 km	West
	8.	Thorana	2.6 km	West
	9.	Sawarla	2.4 km	South West
	10.	Chalbardi	2.4 km	East
	11.	Vislon	2.4 km	North
	12.	Kondha	3.1 km	East

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)																																			
	S. No.	School	Distance in km	Direction (w.r.t to mine boundary)																																
ii. School	1	Patala ZP Primary School	0.2 km	West																																
	2	Naglon ZP Primary School	0.2 km	North																																
	3	Kuchna Kendriya Vidyalay	0.8 km	North																																
	4	Kuchna Primary School	1 km	North																																
	5	Majri ZP Primary School	1 km	East																																
	6	Dr Ambedkar Eng School Majri	1 km	East																																
	7	Karamvir Vidhyalay Majri	1 km	East																																
	8	Kona ZP Upper Primary School	1 km	South																																
	9	ZP. Primary School Zola	2 km	West																																
	10	Balaji High Sawarla	2.4 km	South West																																
	11	Z.P Primary School Govari	3 km	South																																
	12	Z.P Upper Primary School Kolara	4 km	South																																
	13	ZP Primary School Wadgaon	4.5 km	West																																
	14	Z.P Primary School Pimpri	5 km	South																																
iii. River/ Waterbody	S. No.	Name of the Water Bodies	Distance in km	Direction (w.r.t to mine boundary)																																
	1	Wardha river	0.1 km (flows along the mine boundary)	West & South																																
	2	Shirna Nallah	0 km (flows along the mine boundary)	East																																
	3	Diverted Koradi Nallah	0 km (inside the mine lease area)	North																																
iv. Forest	NA																																			
v. Archaeological Survey of India (ASI) protected site	NA																																			
vi. Any other	<b>Other mines:</b> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Nearby mines</th> <th>Distance in km</th> <th>Direction (w.r.t to mine boundary)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>New Majri II A OC Mine</td> <td>1 kms</td> <td>Southeast</td> </tr> <tr> <td>2.</td> <td>Kolarpimpri OC Mine</td> <td>2 kms</td> <td>South-Southeast</td> </tr> <tr> <td>3.</td> <td>Navin Kunada OC Mine</td> <td>4 kms</td> <td>Southeast</td> </tr> <tr> <td>4.</td> <td>Juna Kunada OC Mine</td> <td>5 kms</td> <td>Southeast</td> </tr> </tbody> </table> <b>Highway/ Railway:</b> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Nearby mines</th> <th>Distance in km</th> <th>Direction (w.r.t to mine boundary)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>NH-930</td> <td>Adjacent to mine boundary</td> <td>West</td> </tr> <tr> <td>2.</td> <td>Majri Railway station</td> <td>1.5 kms</td> <td>East</td> </tr> </tbody> </table>				S. No.	Nearby mines	Distance in km	Direction (w.r.t to mine boundary)	1.	New Majri II A OC Mine	1 kms	Southeast	2.	Kolarpimpri OC Mine	2 kms	South-Southeast	3.	Navin Kunada OC Mine	4 kms	Southeast	4.	Juna Kunada OC Mine	5 kms	Southeast	S. No.	Nearby mines	Distance in km	Direction (w.r.t to mine boundary)	1.	NH-930	Adjacent to mine boundary	West	2.	Majri Railway station	1.5 kms	East
S. No.	Nearby mines	Distance in km	Direction (w.r.t to mine boundary)																																	
1.	New Majri II A OC Mine	1 kms	Southeast																																	
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1.	NH-930	Adjacent to mine boundary	West																																	
2.	Majri Railway station	1.5 kms	East																																	

In present proposal, no river/ nallah diversions are proposed. Earlier, a nallah has been diverted for the existing project in FY 2016-17 as per CDO Nashik Design and as per the directive of district administration vide letter no. kavi/k.li./prastu-3/2016/260 dated 20/05/2016. No further nallah diversion is proposed in the present expansion proposal. Same was also recorded in Environment Clearance issued vide letter no. J-11015/25/2008-IA-II(M) dated 01.01.2021.

**Diversions to be done:**

- 1) **PWD Road Diversion:** Majri-Patala Road is proposed for diversion. Existing length is 2 kms and proposed length after diversion will be 2.8 kms. The work will be taken up by PWD Deptt. On deposit basis after the finalisation of alignment of Embankment along Wardha River.
- 2) **HT Line Diversion:** Two nos. 11 KV HT line are proposed to be diverted. Existing length of 3.5 km and proposed length will be 4.5 km.

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

1. Avenue plantation along proposed PWD Road after diversion and plantation on embankment.
2. Green barrier development in the vacant spaces between mines and habitation areas.

**38.5.6: Method of Mining and Mining Plan:** Mining Plan (Including Progressive Mine Closure Plan) has been approved by the WCL Board in 376th meeting vide letter no. WCL/Office of CS/BM-376/2025-26/273 dated 13.06.2025.

1. Method of mining proposed to be carried out is opencast mining by deploying shovel dumper combination.
2. Total mineable reserve as per the mine plan was 50.83 MT and the balance mineable reserve as on 01.04.2025 is 25.39 MT. Extractable reserve as on 01.04.2025 is 24.12 MT. Percent of extraction is 95%.
3. There is one composite seam with multiple sub sections with thickness ranging from 4.32 m to 18.89 m are workable.
4. The average grade of coal is G-11 and stripping ratio is 12.49 cum/t.
5. Life of mine is 11 years (As on 01.04.2025) i.e. [6 years production life + 3 yrs Mine closure activities + 2 yrs Post mine closure monitoring]
6. The project has 4 nos. external dumps including Embankment within its lease in an area of 144.4 ha with 67 m max height. The project has proposed the backfilling in the adjacent New Majri II A OC Mine wherein 178.36 ha of Internal Dump with 90 m max height of adjacent mine i.e. New Majri II A OC Mine will be reclaimed. As on 31.03.2025, 35.999 Mm<sup>3</sup> Overburden (OB) is stored in external dump and 1.106 Mm<sup>3</sup> OB is stored in Internal dump within lease of mine. Further, 1.83 Mm<sup>3</sup> OB will be utilized for construction of Embankment. In addition to this, 349 Mm<sup>3</sup> will be backfilled in the internal dump of adjacent mine (New Majri II A OC Mine) by the end of mine life. Out of this, 49.589 Mm<sup>3</sup> is already backfilled as on 31.03.2025.

a. Dump Details:

Details	Internal Dumps of New Majri UG to OC Mine		Internal Dumps of adjacent New Majri II A OC Mine (Outside lease)		External Dumps (incl. Embankment) of New Majri UG to OC Mine		Remarks
	Nos.	Quantity of Waste/OB stored (Mm <sup>3</sup> )	Nos.	Quantity of Waste/OB stored (Mm <sup>3</sup> )	Nos.	Quantity of Waste/OB stored (Mm <sup>3</sup> )	
Existing (As on March 2025)	01	1.106	5*	49.589	04**	35.999	No
Proposed	0	0	*	299.60	**	1.83	

Details	Internal Dumps of New Majri UG to OC Mine		Internal Dumps of adjacent New Majri II A OC Mine (Outside lease)		External Dumps (incl. Embankment) of New Majri UG to OC Mine		Remarks
	Nos.	Quantity of Waste/OB stored (Mm <sup>3</sup> )	Nos.	Quantity of Waste/OB stored (Mm <sup>3</sup> )	Nos.	Quantity of Waste/OB stored (Mm <sup>3</sup> )	
Total	01	1.106	5*	349.189	04**	37.829	
*At present there are five internal dumps in adjacent New Majri II A OC Mine and these dumps are outside the Lease of New Majri UG to OC Mine. In future, backfilling will be done on these internal dumps.							
**At present 4 nos. of external dumps including embankment are utilized. In future, no additional external dumps will be created. Only OB will be utilised for further creation of embankment.							

b. Specification of each dump:

Dump No	Area (ha)	Height (m)	Quantity (Mm <sup>3</sup> )	Type (Internal/External)
<b>NEW MAJRI UG TO OC MINE</b>				
Embankment	53.20 ha	6 m above HFL	4.61	External
Hard OB dump (3)	56.09 ha	67 m	25.182	External
Top Soil dump (2)	25.84 ha	45 m	5.60	External
Top Soil dump (4)	9.27 ha	41 m	2.437	External
Internal dump	2.24 ha	Within mine void	1.106	Internal
<b>NEW MAJRI II A OC MINE (Adjacent Mine)</b>				
Hard OB dump (5H)	36.08 ha	90 m	349.189	Internal
Hard OB dump (5A)	13.93 ha	90 m		Internal
Hard OB dump (7A)	67.97 ha	90 m		Internal
Top Soil dump (5S)	19.68 ha	30 m		Internal
Top Soil dump (6)	40.70 ha	40 m		Internal
<b>TOTAL</b>			<b>388.124</b>	

7. Total quarry area will be 358.35 ha which will act as final mine void with a depth of 260 m. Final mine void will be converted into water body.

8. Land-use details

a. Pre-Mining Land Use (within mine lease)

S. No.	Type of Land	Area (in ha)
1	Agricultural	654.76
2	Forest land	---
3	Wasteland / Govt. Land	24.50
4	Grazing Land	---
<b>Total Mining lease area</b>		<b>679.26</b>

b. Post Mining land use

S.N.	Post Mining Land use	Land use (ha)				
		Plantation	Water Body	Public/ Company use	Undisturbed	Total
1	External OB Dump	91.19				91.19
2	Excavation		358.35			358.35
3	Embankment			25.00	28.20	53.20
4	Roads			15.00		15.00
5	Built up area (Infrastructure)					
6	Safety Zone/ rationalization	133.81	5.00		22.71	161.52

S.N.	Post Mining Land use	Land use (ha)				
		Plantation	Water Body	Public/ Company use	Undisturbed	Total
	Area (including Garland drain, Nalla Diversion and greenbelt)					
	<b>Total</b>	<b>225.00</b>	<b>363.35</b>	<b>40.00</b>	<b>50.91</b>	<b>679.26</b>

Void will be converted as water body at end of mine life.

9. Details of transportation:

- i. In-pit to surface: By dumpers
- ii. Surface to siding: By tippers
- iii. Siding to loading: By pay loaders
- iv. Quantity being transported by road/ rail/ conveyor/ ropeway: 01 no. Railway siding is there in adjacent New Majri II A OC Mine i.e. at a distance of 1.3 kms from New Majri UG to OC Mine. 100% of the produced coal is being transported through rail except small scale industry.

10. Details of reclamations: Total afforestation for the instant project shall be done in 225 ha. As on Dec 2025, total 78 Ha of mine lease area is covered under Plantation which includes external Top soil dump of 44 ha, greenbelt & safety zone of 34 ha, density of plantations shall be 2500 nos of plants per ha. A void of 178.36 ha of adjacent New Majri II A OC Mine will be completely backfilled and reclaimed with Plantation/ green energy initiatives.

**38.5.7: Baseline data:**

Baseline data was collected during the period of 15<sup>th</sup> March'2025 to 15<sup>th</sup> June'2025

Period	15 <sup>th</sup> March'2025 to 15 <sup>th</sup> June'2025
AAQ parameters at 13 Locations (min and max)	<p><b>Core zone:</b></p> <ul style="list-style-type: none"> <li>a. <math>PM_{10} = 79 \mu g/m^3</math> to <math>188 \mu g/m^3</math></li> <li>b. <math>PM_{2.5} = 45 \mu g/m^3</math> to <math>77 \mu g/m^3</math></li> <li>c. <math>SO_2 = 24 \mu g/m^3</math> to <math>30 \mu g/m^3</math></li> <li>d. <math>NO_x = 29 \mu g/m^3</math> to <math>38 \mu g/m^3</math></li> </ul> <p>As per Coal Mine Standard, (GSR 742(E)) the values are well within the permissible limits</p> <p><b>Buffer Zone:</b></p> <ul style="list-style-type: none"> <li>a. <math>PM_{10} = 64 \mu g/m^3</math> to <math>92 \mu g/m^3</math></li> <li>b. <math>PM_{2.5} = 36 \mu g/m^3</math> to <math>54 \mu g/m^3</math></li> <li>c. <math>SO_2 = 13 \mu g/m^3</math> to <math>32 \mu g/m^3</math></li> <li>d. <math>NO_x = 17 \mu g/m^3</math> to <math>37 \mu g/m^3</math></li> </ul> <p>In buffer zone also values are well within the permissible limit of NAAQS-2009.</p>
Incremental GLC Level	<p><b>Core Zone:</b></p> <ul style="list-style-type: none"> <li>a. <math>PM_{10} = 24.84 \mu g/m^3</math> Total GLC <math>212.84 \mu g/m^3</math></li> <li>b. <math>PM_{2.5} = 7.66 \mu g/m^3</math> Total GLC <math>84.66 \mu g/m^3</math></li> <li>c. <math>SO_2 = 1.59 \mu g/m^3</math> Total GLC <math>31.59 \mu g/m^3</math></li> <li>d. <math>NO_x = 48.08 \mu g/m^3</math> Total GLC <math>84.08 \mu g/m^3</math></li> </ul> <p><b>Buffer Zone:</b></p> <ul style="list-style-type: none"> <li>a. <math>PM_{10} = 0.64 \mu g/m^3</math> Total GLC <math>92.64 \mu g/m^3</math></li> <li>b. <math>PM_{2.5} = 0.21 \mu g/m^3</math> Total GLC <math>54.21 \mu g/m^3</math></li> <li>c. <math>SO_2 = 0.09 \mu g/m^3</math> Total GLC <math>32.09 \mu g/m^3</math></li> <li>d. <math>NO_x = 15.16 \mu g/m^3</math> Total GLC <math>44.16 \mu g/m^3</math></li> </ul>
Groundwater	pH: 7.3 to 7.9,

Period	15 <sup>th</sup> March'2025 to 15 <sup>th</sup> June'2025										
quality at 7 Locations	TDS: 254 to 1178 mg/l, Chlorides:24 to 368 mg/l, Fluoride: 0.08 to 1.4 mg/l. Lead, Arsenic, Cadmium, Chromium: Below Detection Limit										
Surface water quality at 6 Locations	pH:7.3 to 8.3; DO: 4.7 to 5.65 mg/l BOD: from 2.1 mg/l to 3.4 mg/l										
Noise levels Leq (Day and Night)	Core Zone: 50.7 to 68.7 dB(A) for the daytime and 41.6 to 64.5 dB(A) for the Night time. Buffer Zone: 40.3 to 48.3 dB(A) for the daytime and 37.7 to 44.5 dB(A) for the Night time.										
Traffic assessment study findings	<p>Traffic study has been conducted at the Mine boundary. A dedicated Road Over bridge (ROB) and Rail Under Bridge (RUB) is constructed for coal transportation from mine to railway siding. The railway Siding is about 1.3 kms from mine boundary and exist in adjacent New Majri II A OC Mine. The coal transportation from mine is completely through Rail only. Existing PCU is 751.40 PCU/hr on Coal Transportation Route and existing level of service (LOS) is given below:</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>Mine to Railway Siding</td> <td>751.40</td> <td>1500</td> <td>0.5</td> <td>C (Good)</td> </tr> </tbody> </table> <p>Proposed V/C = 0.53 which also comes under LOS of C (Good)</p> <p>Note: Capacity as per IRC-106-1990 Guide line for capacity for roads is 1500.</p> <p>Conclusion: The level of service will remain Good (C) and there will be no public traffic on this route.</p>	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS	Mine to Railway Siding	751.40	1500	0.5	C (Good)
Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS							
Mine to Railway Siding	751.40	1500	0.5	C (Good)							
Flora and fauna	<p>Wildlife Conservation Plan has been prepared for 8 nos. Schedule – I species namely Jackal (Canis Aureus), Tiger (Panthera Tigris), Porcupine (Hystrixindica), Python Indian (Python Molurus), Cobra (Naja Naja), Rat Snake (Ptyas Mucosa), Russel's Viper (Daboia russelii), Indian Peafowl (Pavocrista).</p> <p>A Site-Specific Wildlife Conservation Plan has recommended by CCF, Chandrapur vide letter no. kaksh-3(1)/jameen/pr.kr.689/2025-26/1325 dtd 21.11.2025 and APCCF (WL), Nagpur vide letter no. kaksh-1(B)/Survey/pr.kr.315/991/2025-26 dated 14.01.2026 for an amount of Rs. 700.00 lakhs. Same is in consideration at the office of PCCF (Wildlife), Nagpur</p>										
Water Requirement	<p>Source of Water: Mine water through pumping and tubewell (5369 KL/day = Industrial 5229 KL/day and Domestic = 140 KL/day)</p> <p>Ground Water Intersection: Yes</p> <p>In core zone the ground water level has been reported to be varying between 3.7 m to 5.10 m during pre-monsoon and between 2.4 m to 3.8 m during post-monsoon.</p> <p>In buffer zone the ground water level has been reported to be varying between 3.7 m to 10 m during pre-monsoon and between 1.6 m to 5.7 m during post-monsoon.</p> <p><b>NOC (Ground Water):</b> The Original NOC for abstraction of groundwater has been granted vide letter no CGWA/NOC/MIN/ORIG/2020/7125 dated 09.01.2020 with validity upto 08.01.2022. Renewal of CGWA NOC granted vide letter no CGWA/NOC/MIN/REN/1/2026/12028 with validity upto 08.01.2026.</p>										

**38.5.8: Water Requirement:** PP submitted that the total water required for the project is 5369 KLD. Source of water is Mine Seepage Water, Stored water in galleries of Underground mine. Water usage quantity: Industrial use: 5229 KLD; Domestic use: 140 KLD. NOC from CGWA obtained vide NOC no. CGWA/NOC/MIN/ORIG/2020/7125 dated 09.01.2020 with validity upto 08.01.2022 in respect of Expansion of New Majri UG to OC Mine for which renewal granted & NOC no. CGWA/NOC/MIN/REN/1/2026/12028 with validity up to 08.01.2026. Further, PP submitted that no water body is proposed to be diverted. However, earlier a nallah has been diverted for the existing project in FY 2016-17 as per CDO Nashik Design and as per the directive of district administration vide letter no. kavi/kli./prastu-3/2016/260 dated 20/05/2016. No further nallah diversion is proposed in the present expansion proposal. Same was also recorded in Environment Clearance issued vide letter no. J-11015/25/2008-IA-II(M) dated 01.01.2021.

**38.5.9: Power Requirement and details of diversion of Hi-Tension/ Transmission Line:** The power requirement for the mine is projected to be 8251 KVA at peak. Two nos. 11 KV line is proposed to be diverted. The existing length of 11 KV lines is 3.5 km (under Warora Sub division) and 3.5 km (under MSETC Bhadrawati Sub Division) respectively. The proposed length after diversion for HT lines will be 4.5 km.

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

S. No.	Type of Waste	Source	Quantity	Mode of Treatment	Mode of Disposal
1.	Overburden	Mining	388.124 Mm <sup>3</sup>	OB Dump	Dumping / Backfilling
2.	ETP Sludge	ETP	10 TPA	Sludge Drying Bed	Disposed off by Authorised agency by MPCB
3.	Oil contaminated Waste	HEMM	2.5 TPA	Disposed off by Authorised agency by MPCB	Disposed off by Authorised agency by MPCB
4.	Used Oil	HEMM	86 KLPA	Sold to authorised recycler	Sold to authorised recycler

**38.5.11: Status of implementation of action plan as per the Public Consultation held on 12.12.2019 for the EC dated 01.01.2021:**

Details of advertisement given	Lokmat 09.11.2019 and Hitwada 10.11.2019
Date of public consultation	12.12.2019
Venue	Community Hall, WCL Kuchna Complex, Tehsil Bhadrawati, Chandrapur District, Maharashtra
Presiding Officer	Additional District Magistrate
Number of Person Attended Hearing	638 (approx.)
Number of representations received in writing from the district and outside of district, please give details:	NIL
Major issues raised	R&R, Employment, CSR, Blasting, Crop Compensation, land acquisition, Environment Pollution etc

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

S. N o	Physical activity and action plan		Year of implementation (Budget in INR)						Total Expenditure (Rs. in Lakhs)
	Name of the Activity	Physical Targets	1 <sup>st</sup> 20-21	2 <sup>nd</sup> (21-22)	3 <sup>rd</sup> (22-23)	4th (23-24)	5th (24-25)	6th (25-26)	
			Completed Activities				Propose d		
1	Medical Camps & Misc. Health related	1. Organizing Medical camps in nearby villages including Kuchana, Majri, Patala, Palasgaon & Naglone villages 2. Covid 19 Pandemic	1.2 1	4.8 0	1.99	1.93	3.65	2.00	<b>15.58</b>
2	Drinking Water Supply	1. Construction of RO water plant at Naglone & Kuchana Villages 2. Providing RO water filter with Chiller at Majri Village 3. Providing Chlorine Dozer pump with Hand pump/Borehole at Naglone and Palasgaon Villages 4. Installation of RO Purifier at Bharatiya Gramin Vidyalaya Kuchana Village				6.44	8.59	11.18	<b>26.21</b>
3	School Infrastructure	1. Renovation of 2nos. of Public toilets at Mahavir School, Majri Basti 2. Providing 03 Computers and 03 Printers at ZP School in Patala Village	1.0 9					2.89	<b>3.98</b>
4	Hygiene and Drainage system	1. Construction of Drainage line at Patala & Palasgaon Villages	6.5 4	2.0 0	3.50	2.00	12.70		<b>26.74</b>

S. N o	Physical activity and action plan		Year of implementation (Budget in INR)						Total Expenditure (Rs. in Lakhs)
	Name of the Activity	Physical Targets	1 <sup>st</sup> 20-21	2 <sup>nd</sup> (21-22)	3 <sup>rd</sup> (22-23)	4th (23-24)	5th (24-25)	6th (25-26)	
			Completed Activities					Propose d	
		2. Swacchhta Program 3. Construction of Toilet block with borehole for Male & Female at Majri basti and Patala Village 4. Providing E-Garbage Rikshaw at Naglone Village							
5	Other Infra-structure	1. Recreation / Cultural Hall Bhadrawati 2. Construction of Cemetery Shed in Patala Village 3. Installation of one Hi-Mast with LED lights in Patala Village 4. Installation of 5 KWP Solar panel at Kuchana & Majri Villages			24.7 3	3.84		21.67	<b>50.24</b>
6	Sports Activity	1. Conducting sports, Cricket/Football camps in nearby villages including Kuchana, Majri, Patala, Palasgaon & Naglone villages 2. Providing Kabaddi Mats at Majri and Kuchana Villages 3. Providing and fixing Open Gym equipment in Naglone, Patala, Palasgaon & Kuchana Villages	1.0 0			3.00	12.63	9.52	<b>26.15</b>

S. N o	Physical activity and action plan		Year of implementation (Budget in INR)						Total Expenditure (Rs. in Lakhs)
	Name of the Activity	Physical Targets	1 <sup>st</sup> 20-21	2 <sup>nd</sup> (21-22)	3 <sup>rd</sup> (22-23)	4th (23-24)	5th (24-25)	6th (25-26)	
			Completed Activities						Propose d
7	Girl Child and Women Empowerment related programme	1. Programme to be conducted on Girl child and Woman Empowerment in nearby villages including Kuchana, Majri, Patala, Palasgaon & Naglone villages							3.50 <b>3.50</b>
8	Camps to create awareness on Menstrual hygiene and providing Sanitary Napkin kits	1. Organizing camps to create awareness on Menstrual hygiene and providing sanitary napkins kits to females of nearby villages including Kuchana, Majri, Patala, Palasgaon & Naglone villages		0.60					3.16 <b>3.76</b>
	<b>Total</b>		<b>9.84</b>	<b>7.40</b>	<b>30.22</b>	<b>17.21</b>	<b>37.57</b>	<b>53.92</b>	<b>156.16</b>

Note: The PR provision towards tenancy land (Rs 8139.26 Lakhs) and R&R (Rs. 1437.10 Lakhs)

**38.5.12: EMP Budget:** The capital cost of the project is Rs. 49638.29 Lakhs. The proposed EMP Capital for the project for next 5 years is Rs 1007.60 Lakhs including Plantation activity. The annual recurring cost towards the environmental protection measures is proposed as Rs. 217.68 Lakhs. The employment generation from the project is 566 (direct employment). The details of cost for environmental protection measures are as follows:

S. No.	Particular	Capital Proposed (₹ in Lakhs)	Timeline
1	20 nos. Additional Fixed sprinklers For Dust Suppression	30	July 2026
2	01 no. Additional Sedimentation Pond	20	July 2026
3	01 no. Additional CAAQMS	60	June 2026
4	New Automatic Tyre Wash System	46	June 2026
5	Additional Rainwater Harvesting Structures	10	June 2026
6	01 No. Truck Mounted Fog Cannon	30	-
	<b>Sub Total</b>	<b>196.00 Lakhs</b>	

S. No.	Particular	Capital Proposed (₹ in Lakhs)	Timeline
7	Greenbelt and Plantation (Next 05 Years within and outside lease area)	811.60 Lakhs	From 2026-27 to 2030-31
	Grand Total	Rs. 1007.60 Lakhs	

**38.5.13: Plantation:** Existing green belt (green cover) has been developed in 78 Ha area which is about 11.48 % of the total mine lease area of 679.26 Ha with total sapling of 195000 Trees. Proposed greenbelt (green cover) will be developed in 147 Ha which is about 21.64 % of the total mine lease area. Thus, total of 225 Ha area (33.12% of ML area) will be developed as green cover. Current Plantation include Greenbelt and Safety Zone Plantation along Eastern and Northern Boundary of Mine with width of 20-50 mtr. A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 5,62,500 saplings will be planted and nurtured in 225 hectares by the end of mine life (6 years of production life + 3 years of post-closure activities).

**38.5.14: Rehabilitation and Resettlement (R&R):** R&R of Dafai Village located within the ML Area is proposed to be rehabilitated. Ther are 136 marginalised families living at Dafai no. 1. As informed by PP, the encroached land is the government land acquired by PP. Maharashtra Government offered rehabilitation under Shabari Gharkul Yojana to these families which includes plot and Rs 1.50 Lakh assistance for construction of house. Additional support/ financial contribution in the form of uniform Top-Up of ₹1.50 lakh per family is also agreed by PP. Further, PP informed that the rehabilitation will be completed by State Government by March 2028.

**38.5.15: Details of pending litigation:** PP reported that there is one litigation pending before Hon'ble National Green Tribunal, Pune Bench vide no. 101/2020 (WZ) reg. Compensation against the crop damage due to submergence and demand of R&R benefits through acquisition of affected land.

S. No.	Name of the Court/ Tribunal	Name of the specific Court/ Bench	Case Category & Number	Status of court case	Prayer	Orders/ Directions of the court, if any, and its relevance with the proposed project
1.	NGT	NGT Western Zone- Pune Bench	Original Application	Pending	Original Application No. 101/2020 (WZ) 1. Issue is related to the crop loss of the petitioner. 2. To direct the Tehsildar, Bhadrawati, Dist- Chandrapur, Collector- Chandrapur- and CMD- WCL Majri to take steps so that no further loss is caused to the petitioner and his	No order/Direction of the court in this regard has been received. Next date of hearing is not given.

S. No.	Name of the Court/ Tribunal	Name of the specific Court/ Bench	Case Category Number	Status of court case &	Prayer	Orders/ Directions of the court, if any, and its relevance with the proposed project
					field in the future and to restore the original position of the agricultural land of the petitioner.	

**38.5.16: Undertaking/Affidavit:** PP vide an affidavit submitted that Mining operations at the site are being carried out in accordance with the provisions of the approved mining plan and the existing Environmental Clearance obtained (Ref: EC for New Majri UG to OC Mine has been granted by MoEF&CC, vide letter no: J-11015/25/2008-IA-II(M), Dt.01.01.2021).

There is one litigation pending before Hon'ble National Green Tribunal, Pune Bench vide no. 101/2020 (WZ) reg. Compensation against the crop damage due to submergence and demand of R&R benefits through acquisition of affected land.

The land has been acquired as per the provisions of approved Project Report/ Mining Plan under CBA (A&D) Act,1957, LA Act and direct purchase. Rehabilitation of Dafai is involved in the project. There is no difference in the documents submitted i.e. Common Application Form-I, to MoEF&CC, EIA-EMP report and presentation being made to the EAC.

Further, PP submitted that Reason for submitting the project at MoEF&CC – The present proposal is regarding the grant of Environment Clearance for first phase of 20% expansion i.e. for increase in production capacity from 3.00 MTPA to 3.60 MTPA with reduction in the ML area from 706.28 Ha to 679.26 Ha) “New Majri UG to OC Mine located at Village: Shivjinagar; Tehsil: Bhadrawati; District: Chandrapur; State: Maharashtra” as per the MoEF&CC OM dated 11/04/2022.

Further certified through an undertaking that the information provided in Form-I in electronically/ soft format and/or in .pdf format in PARIVESH, to the Ministry/EAC members and PPT presentation during the EAC meeting to be held on 20th – 21st January 2026 have no deviation in respect of the proposal no IA/MH/CMIN/560399/2025 for EC for coal mining having 679.26 ha of ML area and capacity enhancement from 3.00 MTPA to 3.60 MTPA for Coal Mine Project located at village Shivjinagar, Taluk Bhadrawati, District Chandrapur, State Maharashtra by M/s. Western Coalfields Limited. 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 EC.

#### **Observation and deliberation of the EAC:**

**38.5.17: Committee after deliberations noted the following:**

1. The instant proposal is for grant of environment clearance to M/s Western Coalfields Ltd. for Expansion of New Majri UG to OC Mine (increase in production capacity from 3 MTPA to 3.6 MTPA, with decrease in ML area from 706.28 Ha to 679.26 Ha), located at Village: Shivjinagar, Tehsil: Bhadrawati; District: Chandrapur; State: Maharashtra. The

proposal is for expansion in production capacity by 20% (1st Phase) as per Ministry's OM dated 11.04.2022.

2. Ministry has previously granted EC for the said project vide letter dated 01.01.2021 for the production capacity of 3 MTPA within the ML area of 706.28 Ha
3. The above EC is under implementation and the proponent has achieved the production capacity of 3 MTPA in the FY 2024-25.
4. MoEF&CC has issued an OM on 11.04.2022 to facilitate all applications seeking prior EC for modernization/ expansion with increase in production capacity up to 50% within the existing premises/ mine lease area, without any additional land acquisition. Through this OM, Ministry has provided guidelines for availing expansion up to 50% of the original EC capacity without Public Hearing in two stages (0-20% & 20-40%). Public Consultation (written comments) shall be required for third stage i.e., 40-50% expansion.
5. The ML area is not located within the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA). A certificate has been issued from the Sub-Regional Officer, Maharashtra Pollution Control Board, Chandrapur vide letter no. MPCB/SROC/TB/B-1087 dated 29.10.2025, detailing the aerial distances of the said project from CEPI notified areas.
6. 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.
7. In the instant proposal the ML area is being reduced from 706.28 Ha to 679.26 Ha. The 27.02 Ha of the area being reduced is non-forestland and non-coal bearing zone. Committee observed the discrepancy in the ML area on which EC was accorded vide letter dated 01.01.2021 and the land acquired by the PP under CBA (A&D) Act and direct purchase. PP and the consultant failed to provide the clarity on the total land acquired vis-à-vis EC obtained. Project proponent shall submit details in a tabular format, about the land acquired under certain government notifications or direct purchases, vis-à-vis, EC obtained for the same, clarifying the reasons for reductions of ML area from 706.28 ha to 679.26 ha.
8. There is no forest land involved in the project.
9. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/ tiger corridor/ elephant corridor etc. A Site-Specific Wildlife Conservation Plan is recommended by Additional principal Conservator of Forest (APCCF Wildlife East), Nagpur vide letter no. kaksh-1(B)/Survey/pr.kr.315/991/2025-26 dated 14.01.2026 for an amount of Rs. 700.00 lakhs. Same is in consideration at the office of PCCF (Wildlife), Nagpur. The same is not submitted to the Ministry along with the documents.
10. Mining Plan (Including Progressive Mine Closure Plan) has been approved in 376<sup>th</sup> Meeting by the WCL Board vide letter WCL/Office of CS/BM-376/2025-26/273 dated 13.06.2025. Method of mining proposed to be carried out is opencast mining by deploying shovel dumper combination.
11. Total mineable reserve as per the mine plan was 50.83 MT and the balance mineable reserve as on 01.04.2025 is 25.39 MT. Extractable reserve as on 01.04.2025 is 24.12 MT. Percent of extraction is 95%. The average grade of coal is G-11. Life of mine is 11 years

(as on 01.04.2025) - [6 years production life + 3 yrs Mine closure activities + 2 yrs Post mine closure monitoring].

12. Committee further deliberated on the method of transportation proposed for the said project and observed that coal from in-pit to surface is proposed to be transported through dumpers, from surface to siding the same is being transported through tippers through internal CT roads and further to consumers through railway. A dedicated coal transportation road is provided for transportation of coal from mine to Railway Siding i.e. 1.3 kms from mine boundary and in the boundary of adjacent New Majri II A OC Mine.
13. Committee deliberated on the OB dumping strategy for the said mine and observed that, there is one nos. of internal dump and 4 nos. of external dumps in new Majri UG to OC mine as on date. No further OB dumps are proposed in the said mine, rather OB from the instant mine will be dumped into the internal dumps of the adjacent New Majri II A OC Mine. There are 5 nos of internal dumps present in the adjacent New Majri II A OC Mine, which will be used for dumping OB from the instant mine.
14. Committee deliberated on the baseline data submitted by the PP and observed that, the baseline data has been collected during 15<sup>th</sup> March 2025 to 15<sup>th</sup> June 2025. The PM<sub>10</sub>, PM<sub>2.5</sub> and NO<sub>x</sub> parameters are observed to be on the higher side. Incremental NO<sub>x</sub> is observed to be 48.08  $\mu\text{g}/\text{m}^3$  in the core zone. Committee sought the details of the source of emission. Committee also sought updated EMP budget by adding additional air pollution control measures to it.
15. In the baseline data submitted by the PP, Committee deliberated on the traffic assessment study and observed that the existing V/C ratio of the project is 0.5 and proposed V/C ratio is 0.53. However, no information pertaining to incremental V/C ratio is submitted. The same needs to be rectified.
16. PP submitted that the total water required for the project is 5369 KLD. Source of water is Mine Seepage Water & Water from Underground Galleries. Water usage quantity: Industrial use: 5229 KLD; Domestic use: 140 KLD. NOC from CGWA obtained vide NOC no. NOC from CGWA obtained vide NOC no. CGWA/NOC/MIN/ORIG/2020/7125 dated 09.01.2020 with validity upto 08.01.2022 and renewal granted vide NOC no. CGWA/NOC/MIN/REN/1/2026/12028 with validity upto 08.01.2026. Further, PP submitted that no water body is proposed to be diverted. However, earlier, a nallah has been diverted for the existing project in FY 2016-17 as per CDO Nashik Design and as per the directive of district administration vide letter no. kavi/k.li./prastu-3/2016/260 dated 20/05/2016. The CGWA NoC being referred here is not submitted by the PP. PP is also requested to submit the HFL data of Wardha river.
17. The power requirement for the mine is projected to be 8251 KVA at peak. Two nos. 11 KV line is proposed to be diverted. The existing length of 11 KV lines is 3.5 kms (under Warora Sub division) and 3.5 kms. (under MSETC Bhadrawati Sub Division) respectively. The proposed length after diversion for HT lines will be 4.5 km. Committee opined that diversion shall be made only after obtaining permission from the competent authority.
18. Committee deliberated on the compliance of the PH action plan for the public hearing held on 12.12.2019 for EC dated 01.01.2021 and further proposed to be undertaken.

Committee observed that, till now the PP had spent Rs. 102.24 Lakhs for the compliance of the PH action plan and further, Rs. 53.92 Lakhs are more proposed to be spent. Committee opined that the same shall be utilized in a time bound manner.

19. Further, Committee deliberated on EMP budget submitted by the PP and observed that, the capital cost for environmental protection measures is proposed as Rs 1007.6 Lakhs and the annual recurring cost towards the environmental protection measures is proposed as Rs. 217.68 Lakhs/Annum. However, the EMP budget is submitted only for the capital expenditure. Committee sought the existing and proposed EMP budget with physical targets for both capital and recurring expenditure for the instant expansion proposal.
20. Committee further deliberated on the plantation developed by the PP till date and observed that, existing green cover has been developed in 78 Ha area which is about 11.48% of the total mine lease area of 679.26 Ha with total sapling of 195,000 Trees. Proposed green cover will be developed in 147 Ha which is about 21.64 % of the total mine lease area. Thus, total of 225 Ha area (33.12% of ML area) will be developed as green cover. A 7.5 m wide greenbelt, consisting of at least 3 tiers around mine boundary will be developed as greenbelt and green cover as per CPCB/MoEF&CC, New Delhi guidelines. Local and native species will be planted with a density of 2500 trees per hectare. Total no. of 5,62,500 saplings will be planted and nurtured in 225 hectares by the end of mine life (6 years of production life + 3 years of post-closure activities). Committee further observed in the CCR obtained by the PP that, complete greenbelt is yet to be developed. PP submitted that total perimeter of the mine lease area of the integrated project is 11 km out of which greenbelt developed is in about 4 km. The remaining area will be developed as a Greenbelt consisting of 3-tier plantation of width not less than 7.5 m all along the mine lease area by June 2027 including incentives to local villagers for maintenance and nurturing of plants. Committee opined that the proponent should distribute the saplings of fruit bearing plants to the nearby villagers and should incentivise them for its survival.
21. Committee deliberated on the R&R of Dafai Village located within the ML Area which is proposed to be rehabilitated. There are 136 marginalized families living at Dafai no. 1. As informed by PP, the encroached land is the government land acquired by PP. Maharashtra Government offered rehabilitation under Shabari Gharkul Yojana to these families which includes plot and Rs 1.50 Lakh assistance for construction of house. Additional support / financial contribution in the form of uniform Top-Up of ₹1.50 lakh per family is also agreed by PP. Further, PP informed that the rehabilitation will be completed by State Government by March 2028. Committee opined that the same shall be expedited at the earliest.
22. Committee observed that there is one litigation pending before Hon'ble National Green Tribunal, Pune Bench vide no. 101/2020 (WZ) regarding compensation against the crop damage due to submergence and demand of R&R benefits through acquisition of affected land. Committee sought the details of the impact on the agricultural land, actual crop loss and remedial measures taken by the PP in this regard.
23. Committee deliberated on the certified compliance report obtained by the PP from Regional Office; MoEF&CC, Nagpur vide letter no. 607/RON/2017-NGP-14857 dated 17.11.2025 in the name of Expansion of New Majri UG to OC Mine of M/s. Western Coalfields Limited. Committee observed that there is one condition w.r.t to construction of toe wall which is stated as non-complied. PP submitted that a study in this respect was carried out through VNIT Nagpur and as per the findings of the same it is not feasible to

construct a 15 m tall toe wall. Hence a 1.5 m tall toe wall has been constructed. Committee opined that PP should have sought amendment in the said condition.

**Recommendations of the Committee:**

**38.5.18:** In view of the foregoing and after detailed deliberations, the committee recommended to *defer* the instant proposal for want of the following additional information:

- i. Project proponent shall submit the land details in a tabular format, about the land acquired under government notifications and/or direct purchases, vis-à-vis, EC accorded on 01/01/2021 and clarify the reasons for reduction in ML area from 706.28 Ha to 679.26 Ha.
- ii. Project proponent shall submit the Site-Specific Wildlife Conservation Plan recommended by Additional principal Conservator of Forest (APCCF Wildlife East), Nagpur vide letter no. kaksh-1(B)/Survey/pr.kr.315/991/2025-26 dated 14.01.2026 for an amount of Rs. 700.00 lakhs, along with its approval letter.
- iii. Project proponent shall revisit the modelling results of AAQ as the GLC reported for PM and NOx appears to be on higher side.
- iv. Project proponent shall revisit the traffic assessment study as the vehicle movement due to the proposed expansion has not been taken in to cognizance at all in the said study.
- v. Project proponent shall submit the groundwater clearance obtained from CGWA for the water withdrawal of 5369 KLD.
- vi. Project proponent shall submit the HFL data of Wardha River and the conservation measures to be adopted for protection of Wardha river.
- vii. Project proponent shall revisit the capital cost for the instant expansion project, capital and recurring cost earmarked for the implementation of Environment Management Plan.
- viii. Project proponent shall submit the details of the impact on the agricultural land, actual crop loss and remedial measures taken by the PP in this regard, details regarding litigation pending before Hon'ble National Green Tribunal, Pune Bench vide no. 101/2020 (WZ) regarding compensation against the crop damage due to submergence and demand for R&R benefits due to acquisition of affected land shall also be submitted.
- ix. Project proponent shall seek amendment in EC for the reduction in ML area, land use pattern and the condition pertaining to construction of toe wall.
- x. PP should give physical targets to be achieved along with financial target for PH issues raised as per MoEF&CC O.M. dated 30/09/2020.

**Agenda No. 38.6:**

**38.6:** North Dhadu (western part) Opencast Coal Mining Project (having production capacity of 4.5 MTPA within the ML area of 714.54 Ha) by M/s NLC India Limited, located at villages: Hempur, Bhaisadon, Semarsot, Dhadu, Chitarpur & Nawadih; Tehsil: Balumath; District: Latehar; State: Jharkhand – Prescribing of Terms of Reference – reg.

**[Online Proposal no. IA/JH/CMIN/501732/2025; Consultant: Pragathi Labs & Consultants Pvt Ltd. - NABET/EIA/24-27/RA 0383 – valid up to 06.10.2029]**

**38.6.1:** M/s NLC India Limited has made an application online vide proposal no. IA/JH/CMIN/501732/2025 dated 22.10.2024 followed by EDS reply on 06/01/2026 along with the application in prescribed format (CAF & Form-I), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at Item. No. 1(a) Mining of minerals Under Category “A” of the schedule of the EIA Notification, 2006 and being appraised at Central Level. The project does not attract General Condition of the EIA Notification, 2006.

The instant project of M/s NLC India Limited is for North Dhadu (western part) Opencast Coal Mining Project (having production capacity of 4.5 MTPA within the ML area of 714.54 ha) by M/s NLC India Limited, located at villages: Hempor, Bhaisadon, Semarsot, Dhadu, Chitarpur & Nawadih; Tehsil: Balumath; District: Latehar; State: Jharkhand.

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

**38.6.2: Environmental Site Settings:** The project area is covered under Survey of India Topo sheet No. 73A/13 and 73A/14 and is bounded by the geographical coordinates ranging from: 23°45'53.316"N to 23°47' 9.970" N and longitudes: 84° 46' 50.868"E to 84° 49' 7.720"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 193.392 Ha of forestland. Application for the diversion of the same has been submitted vide proposal no. FP/JH/MIN/QRY/561322/2025, dated 15.12.2025.

**Protected Area:** The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. The Wildlife Conservation Plan for the Schedule – I species is yet to be prepared.

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

S. No.	Govt. Order/ Notifications as the case may be	Area (ha)
1	Vesting Order No. NA-104/31/2023-NA dated 14.12.2023	524.47
2.	Letter of Intent No-Kha.Ni (Vividh)-94/2024-25/5 dated 04.11.2025	190.07
	<b>TOTAL</b>	<b>714.54</b>

#### Other Sensitive Receptors:

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
	Village	Distance (km)	Direction
i. Habitation	Bhaisadon	Within ML area	
	Makaiyatanda	Within ML area	
	Pargarha	Within ML area	
	Chitarpur	Within ML area	
	Harapu	0.38	NNE
	Gerenja	0.75	NE
	Piprahi	0.3	E
	Thalia	1.5	E
	Bishunpur	3.5	E
	Barwatol	4.6	E
	Pindarkom	3	NE

Project site proximity to sensitive area	Distance in km (within 5 km from the ML area)		
i. Residential	Dhadu	0.6	ESE
	Kharatiatoli	0.3	SSE
	Purunipani	2.4	ESE
	Chakla	2.2	S
	Barwatoli	0.9	S
	Haraiyatoli	3.1	SE
	Nawatoli	4.1	S
	Amwatanr	3.8	SSE
	Ambuatranr	5	S
	Damodar	4.8	S
	Basriyatton	3.8	S
	Hempur	0.4	W
	Semarsot	1.5	NW
	Kuramu	2.62	SW
	Murgaon	0.98	WSW
	Kusmahi	0.6	WNW
	Balumath	4	N
	Soparam	2	N
	Jogiyadih	2.2	N
	Schools		Distance
	Model School - Balumath		Within ML area
ii. School	Madh Vidyalaya, Gerenja	1	NE
	Public School, Jogiyadih	1.5	N
	Junior Kids, Balumath	4.8	N
	UMS Upgraded High School, Semarsot	0.92	NW
	Govt Middle School, Pinderkom	3.2	ENE
	River /Nallah		Distance (km)
iii. River/ Waterbody	Rahera Nadi	-	NE
	Haharo Nadi	0.78	S
	River /Nallah		Distance (km)
iv. Forest	Reserved /Protected forests		Distance (km)
	Chakla		1
	Gerenja		1.4
	Piprahi		-
	Bishunpur		0.48
	Chetang		6.1
	Bhusarh		8
	Nindra		1.15
	Semarsot		1.5
v. Archaeological Survey of India (ASI) protected site	Komar		S
	No		
vi. Any other	1. Hospitals:		
	<b>S. No.</b>	<b>Name of the Hospital</b>	<b>Direction</b>
	1	Balumath City Hospital Balumath, Tasatwar,	N
	2	Community Health Center - Hospital Latehar	N
	3	Government Hospital - Hospital Basukinath, Balumath	N
	2. Other Industries:		

Project site proximity to sensitive area		Distance in km (within 5 km from the ML area)			
S. No.	Name of the Industries	Direction	Distance		
1	Tetariakhar Project - Mine, Pinderkum Coal mine	NE	3.9 km		
2	Matishri Usha Jayaswal Mega Power Plant, Abhijeet Group / Corporate Power Ltd Not working/ Closed	SW	2.6 km		
3	<b>Essar Power Thermal Project, Tori, Industrial area (power plant) – not working/closed</b>	SW	6.5 km		
4	<b>Balumath CCL Siding (Coal Handling), Coal logistics siding</b>	N	2.8 km		

**38.6.3: Mining Plan and Mine Closure Plan:** The mining plan & mine closure plan for the project was approved for capacity of 4.5 MTPA, Area 714.54 Ha Vide letter No. North Dhadu (Western Part) Coal MineJHJH021/APP00337/2024 dated 20.11.2025.

1. Method of Mining to be adopted shall be Opencast. The Capacity of the mine applied for rated capacity is 4.5 MTPA.
2. Excavation of Coal and OB is proposed through shovel/ dumper combination.
3. Total geological reserve reported in the mine lease area is 435.088 MT with 116.6160 MT mineable reserves. Out of total mineable reserve of 116.6160 MT, 110.7900 MT are available for extraction. Percent of extraction is 27.943%.
4. There are 21 workable seams, with the thickness ranging between 0 m – 45.95. Grade of coal is G12, stripping ratio 1: 4.8511.
5. Life of mine is 42 years.
6. The project has 2 external OB dumps in an area of 151.32 ha with 90 m height and 73.5 Mm<sup>3</sup> of OB. 1 internal OB in an area of 193.73 ha with 448.92 Mm<sup>3</sup> of OB is envisaged in the project.
7. Details of Land usage:

a. Pre-mining land use pattern:

S. No.	Land Use	Within ML Area (ha)	Outside ML Area (ha)	Total
1.	Forest Land	193.392	-	193.392
2.	Waste Land	175.707	-	175.707
3.	Tenancy (irrigated/ non-irrigated land)	345.441	-	345.441
<b>Total</b>		<b>714.54</b>		<b>714.54</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	193.73	174.36	19.37
	(b) Excavated Void	166.24		166.24
2.	External Dump & Top soil	165.82	165.82	
3.	Safety Zone	87.89	87.89	
4.	Road and Infrastructure	49.49	16.23	33.26
5.	Garland Drains	4.74		4.74
6.	Embankment	7.71		7.71
7.	Others	38.92	8.46	30.46
	<b>Total</b>	<b>714.54</b>	<b>452.76</b>	<b>261.78</b>

**8. Details of transportation of Coal:** The coal is proposed to transport within the outside mining lease in the following manner:

- a. In pit to surface: Dumpers and High-angle conveyors
- b. Surface to siding: Through conveyor to CHP Silo
- c. Siding to loading: Through wharf wall loading
- d. Quantity proposed to be transported by Road/Rail/conveyer/ropeway: Through rail from Kushmahi siding.

**9. Reclamation:** Afforestation shall be done progressively covering an area of **452.76** Ha at the end of mining. This will include reclaimed external OB dumps in an area of 151.32 ha, internal dump of 174.36 ha, greenbelt of 7.47 ha and 119.61 ha (Roads & Infrastructure, Safety zone, top soil dump, etc) will also be reclaimed with plantation. Density of plantation will be 2500 nos of trees per ha. A void of 166.24 ha will be converted into water body of depth 40 m.

**38.6.4: Baseline Data:** The baseline data has been collected during October 2024 – December 2024 (post – monsoon):

Period	October 2024 – December 2024	Additional Study (If any)										
AAQ parameters at 8 Locations (min and max)	<p><b>Core zone</b></p> <p>PM<sub>2.5</sub> = 16.3 to 21.3 <math>\mu\text{g}/\text{m}^3</math>  PM<sub>10</sub> = 49 to 64 <math>\mu\text{g}/\text{m}^3</math>  SO<sub>2</sub> = 5.7 to 14.1 <math>\mu\text{g}/\text{m}^3</math>  Nox = 12.9 to 23 <math>\mu\text{g}/\text{m}^3</math>  CO = 0.3 to 0.4 mg/m<sup>3</sup></p> <p><b>Buffer zone</b></p> <p>PM<sub>2.5</sub> = 12.7 to 26.7 <math>\mu\text{g}/\text{m}^3</math>  PM<sub>10</sub> = 38 to 80 <math>\mu\text{g}/\text{m}^3</math>  SO<sub>2</sub> = 5.1 to 17.2 <math>\mu\text{g}/\text{m}^3</math>  NOx = 12 to 20.6 <math>\mu\text{g}/\text{m}^3</math>  CO = 0.5 to 0.8 mg/m<sup>3</sup></p>											
Ground water quality at 10 Locations	pH: 7 to 7.62, Total Hardness: 128 to 412 mg/l, Chlorides: 50 to 242 mg/l, Fluoride: 0.3 to 0.8 mg/l, Nitrate: 10 to 15 mg/l, Heavy metals (Fe): 0.2 to 0.4 mg/l, Pb, Hg, Se and Cr: BDL											
Surface water quality at 5 Locations	pH: 7.26 to 8.1, DO: 4 to 5 mg/l and BOD : 2 to 8 mg/l, COD: 10 to 28 mg/l, Total coliform: 74 to 210 MPN/100 ml											
Noise levels Leq (Day and Night)	50.5 dB(A) during day time and 40.2 dB(A) during Night time 49.8 to 61.0 dB(A) for the day time and 39.2 to 42.4 dB(A) for the Night time (of both residential and industrial area)											
Traffic assessment study findings	<p>Traffic study has been conducted at NH - 22 which is approximately 0 km from the mine site</p> <p>Transportation of mineral will be done 100% by road/rail.</p> <p>Existing PCU is 738.5 PCU/hr on NH -22 and existing level of service (LOS)</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>NH -22</td><td>738.5</td><td>15000</td><td>0.04</td><td>A</td></tr> </tbody> </table>	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS	NH -22	738.5	15000	0.04	A	
Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS								
NH -22	738.5	15000	0.04	A								
Flora and fauna	Enumeration of species carried out and Conservation Plan is under preparation											
Water Requirement	Source of Water: Groundwater + mine sump Groundwater Intersection: yes											

Period	October 2024 – December 2024	Additional Study (If any)
	Water Requirement: 760 KLD NOC (for surface water): NA NOC (for Ground Water): yet to be obtained from CGWA	

**38.6.5: Details of Water Requirement:** Water requirement for the said project is 760 KLD (potable water 42.255 KLD + 644.5 KLD for Washing + Dust suppression + firefighting) and the source of water shall be groundwater and mine sump water. Permission from CGWA is yet to be obtained for the same. No waterbody is proposed to be diverted for the said project.

**38.6.6: Details of Power Requirement, its source and diversion of High-Tension/Transmission Line:** 2x7.5MVA Transformer load, 33/6.6 kV substation has been envisaged for the project. This substation will receive power at 33 kV from the existing 33 kV Murpa Substation line of JBVNL by means of 2 Nos. of independent single circuit overhead line drawn from two independent bays.

#### Diversion of High Tension/ Transmission line:-

- 33KV power line going from Lohardaga to Balumath via mine shall be diverted along with NH 22 highway.
- 33KV power line going from Mine area to Murpa substation shall be diverted out of mine boundary and power line shall be connected in murpa 33KV power line outside the mine boundary.
- 11KV power line coming from Bhaisadon to North Dhadu village, Power to north dhadu village shall be provided from Chitarpur 11KV power line.
- 11KV power line coming from Kushmahi railway station to Chitarpur shall be diverted outside the mine boundary and line will be connected to Chitarpur village 11KV power line at Chiarpur railway bridge area.
- 400KV transmission line- Chandwa-Gaya power grid transmission line is going through project area. Line shall be diverted out of mine boundary.

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

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Transport	Disposal
1	Over Burden	Mine Site	36314189	Road	It will be backfilled in the de-coaled area and stocked in the external dump
2	E – waste	Electrical Cables, Electronic equipment's	0.05	Road	Sale to authorized recyclers
3	Batteries	HEMM Work Shop	0.5	Road	Sale to registered recycler or at designated collection centre
4	Used/ Spent Oil	HEMM Work Shop	100	Road	Sale to authorized recyclers

S. No.	Type of Waste	Source	Quantity (TPA)	Mode of Transport	Disposal
5	Waste or residues containing oil	HEMM Work Shop	20	Road	Sale to authorized recyclers
6	Contaminated cotton rags or cleaning material	HEMM Work Shop	0.5	Road	Sale to authorized recyclers

**38.6.8: Plantation:** Plantation will be progressively carried out in 452.76 Ha, with native species with the density of 2500 plants per Ha.

**38.6.9: Rehabilitation & Resettlement Plan:** Project involves villages namely - Bhaisadon, Hempur, Semarsot, Dhadu, Chitarpur and Nawadih. Land acquisition is under CBA Act and R&R benefits shall be done as per the R & R policy of Government of Jharkhand.

**38.6.10: Project Cost:** The cost of the project is Rs. 1354.2 crores (approx.).

**38.6.11: 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. Further, there is no court case on the project.

**38.6.12: Written Submissions:** PP submitted revised land use pattern and details of hospitals and industries in the study area.

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

**38.6.13: The Committee noted the following:**

1. The instant proposal is for grant of Terms of Reference to M/s NLC India Limited for North Dhadu (western part) Opencast Coal Mining Project (having production capacity of 4.5 MTPA within the ML area of 714.54 Ha) by M/s NLC India Limited, located at villages: Hempur, Bhaisadon, Semarsot, Dhadu, Chitarpur & Nawadih; Tehsil: Balumath; District: Latehar; State: Jharkhand.
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 193.392 Ha of forestland. Application for the diversion of the same has been submitted vide proposal no. FP/JH/MIN/QRY/561322/2025, dated 15.12.2025.
5. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. The Wildlife Conservation Plan for the Schedule – I species is yet to be prepared.
6. The coal block for the said mine was allocated to the PP by Ministry of Coal vide letter no. NA-104/31/2023-NA dated 14.12.2023.
7. The mining plan & mine closure plan for the project was approved for capacity of 4.5 MTPA, Area 714.54 Ha Vide letter No. North Dhadu (Western Part) Coal MineJHJH021/APP00337/2024 dated 20.11.2025.

8. Method of Mining to be adopted shall be Opencast. Excavation of Coal is proposed through shovel/ dumper combination along with surface miner. Total geological reserve reported in the mine lease area is 435.088 MT with 116.6160 MT mineable reserves. Out of total mineable reserve of 116.6160 MT, 110.7900 MT are available for extraction. Percent of extraction is 27.943%.
9. There are 21 workable seams, with the thickness ranging between 0 m – 45.95. Grade of coal is G12, stripping ratio 1: 4.8511. Life of mine is 42 years. The project has 2 external OB dumps in an area of 151.32 ha with 90 m height and 73.5 Mm<sup>3</sup> of OB. 1 internal OB in an area of 193.73 ha with 448.92 Mm<sup>3</sup> of OB is envisaged in the project.
10. Committee observed that the land use pattern submitted by the PP is not correct as the entire post mining land was submitted as reclaimed area. PP however submitted the correct post mining land use pattern.
11. Committee deliberated on the method of transportation of coal proposed for the said mines and observed that, from in-pit to surface the coal will be transported by dumpers and high angle conveyors from surface to CHP Silo through conveyor and further to the railway siding through conveyor. The entire coal is proposed to be transported to the final consumer through rail. Only up to 10% of the total coal production will be transported to the local consumers by road, as and when required.
12. The baseline data for the said project has been collected by the PP during October – December 2024. All the parameters were found to be in the prescribed limits.
13. Water requirement for the said project is 760 KLD (potable water 42.255 KLD + 644.5 KLD for Washing + Dust suppression + firefighting) and the source of water shall be groundwater and mine sump water. Permission from CGWA is yet to be obtained for the same. No waterbody is proposed to be diverted for the said project.
- Rahera nadi which flows adjacent to the ML area will not be disturbed. Committee opined that PP shall submit a time-bound action plan for the protection measures to be undertaken for the waterbodies present within and in close vicinity of the ML area.
14. During the deliberation the PP was unable to provide the High Flood Level (HFL) data of the rivers within 10 km of the ML area. Committee opined that, the same shall be assessed through the surveying agency and the PP shall get it approved from District Collector or Water Resource Department and submit the same to the along with the application of Environment Clearance.
15. The tentative total power requirement for North Dhadu (western Part) Coal Mine Project is calculated as 7.5 MVA. The main substation of the Mine shall receive power through 2 number of independent 33 kV feeder from Murpa JBVNL Substation located at a distance of around 15 km. Committee also observed that, 5 nos of power lines are proposed to be diverted for the instant project. Committee opined that the PP shall obtain permission for the said diversion from the competent authority and shall submit the same along with the application for EC.
16. Committee observed that 452.76 Ha area is proposed to be developed with plantation by the end of the mine life with the density of plantation as 2500 nos of plants per Ha. Committee opined that PP shall also submit a plan for plantation apart from the plantation proposed in 452.76 Ha and the compensatory afforestation. This plantation plan shall be prepared to mitigate the effects of the trees to be cut down in the forest area. Committee also opined that no OB dumping shall be proposed on the forestland.

17. Committee opined that carbon sequestration study shall be carried out to clearly bring out the effect of cutting the trees for the said project. Accordingly a compensatory plan for carbon sequestration shall be submitted.
18. The project involves rehabilitation & resettlements as there will be displacement of families. This project involves R&R of 6 nos of villages, namely - Bhaisadon, Hempor, Semarsot, Dhadu, Chitarpur and Nawadih. Committee opined that R&R plan for the said mine shall be prepared in consultation with the district collector and the same shall be submitted along with the application for EC.
19. The cost of the project is Rs. 1354.2 crores (approx.).
20. 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.

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

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

#### **Specific ToRs:**

- i. Project Proponent shall submit the drone video & photographs of the ML area and transportation route proposed for this project with special focus on the sensitive receptors in the ML area and in the transportation route.
- ii. Project proponent shall submit the Stage – I forestry clearance on the 193.392 Ha of forest land involved in the mine lease area as per MoEF&CC OM dated 09/09/2011.
- iii. Site Specific Wildlife Conservation Plan shall be prepared and approved by the DFO/ PCCF Wildlife for the Schedule – I species present within the ML area.
- iv. PP shall submit a letter from the State Forest Department for the impact on the baseline data of the forest area due to the mining activities of the instant project.
- v. 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.
- vi. 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.
- vii. Project proponent to prepare Environmental Cost Benefit Analysis for the project in EIA/EMP Report.
- viii. Action plan for setting up of in-pit conveyor belt with silo loading transportation of coal from the mine pit to the surface and further till railway siding shall be submitted.

- ix. No mining activity shall be proposed on grazing land (if any) till the alternate land is provided for the same area to the community. PP shall strictly adhere with the rules of State Government in this regard and provide alternate land for grazing to the villagers in consultation with the District Collector. Valid documents in this regard shall be submitted along with the application for EC.
- x. 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.
- xi. A time bound action plan for the protection measures to be undertaken for the Rahera nadi and other waterbodies present within and in close vicinity of the ML area shall be submitted along with the application for EC.
- xii. 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.
- xiii. 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.
- xiv. Project proponent shall prepare the EIA-EMP report and thereafter conduct the Public Consultation, including public hearing, through concerned SPCB in the Latehar District as per the provisions/procedure contained in the EIA Notification, 2006.
- xv. PP shall submit the EIA/EMP report after the plagiarism check using authenticated plagiarism software.
- xvi. 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.
- xvii. 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.
- xviii. The PP should submit the number of saplings to be planted in area to be covered under afforestation & green belt, location of plantation, target for survival rate and budget earmarked for the afforestation & green belt development. In addition to this PP should show on a surface plan (5-year interval for life of mine) of suitable scale the area to be covered under afforestation & green belt clearly mentioning the latitude and longitude of the area to be covered during each 5 years. The capital and recurring expenditure to be incurred needs to be submitted. Plantation plan should be prepared in such a way that 80% of the plantation to be carried out in first 5 years and for the remaining years the proposal for gap filling. The seedling of height not less than 2 meters to be selected and accordingly cost of plantation needs to be decided. In addition to this plantation in

the safety zone at lease boundary the plantation should be completed within 2 years only. PP should submit a concurrent plantation plan.

- xix. 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.
- xx. Project Proponent shall obtain water withdrawal permission from CGWA for 760 KLD.
- xxi. Project proponent shall assess the High Flood Level (HFL) data of the rivers within 10 km of the ML area through the surveying agency and shall get it approved from District Collector or Water Resource Department and submit the same to the along with the application of Environment Clearance. 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.
- xxii. Project Proponent shall obtain permission from the competent authority for diversion of 5 nos of power lines and the same shall be submitted along with the application for EC.
- xxiii. No OB dumping shall be proposed on the forestland.
- xxiv. 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.
- xxv. Project Proponent should clearly bring out the details of the manpower to be engaged for this project with their roles /responsibilities/designations. In addition to this PP should mention the number and designation of person to be engaged for implementation of environmental management plan (EMP). The capital and recurring expenditure to be incurred needs to be submitted.
- xxvi. Project Proponent should submit the year-wise, activity wise and time bound budget earmarked for EMP, occupational health surveillance, and activities proposed to address the issues raised during Public Hearing. The capital and recurring expenditure to be incurred needs to be submitted.
- xxvii. In case of ground water abstraction/intersection, the PP shall comply with the Ministry's OM dated 23/05/2019. Compliance status needs to be presented before EAC at the time of appraisal
- xxviii. Project Proponent should clearly bring out that what is the specific diesel consumption ~ (Liters/Tonne of total material handled) and steps to be taken for reduction of the same. The year-wise target for reduction in the specific diesel consumption needs to be submitted. PP shall also explore the possibility of using e-vehicles/LPG/CNG-based machinery and trucks for the operation and transportation of coal.
- xxix. All the certificates viz. Involvement of Forest land, distance from protected area, and list of flora & fauna should be duly authenticated by the Forest Department. The Certificate should bear the name, designation, official seal of the person signing the certificate and dispatch number.

- xxx. Details on waste water generation (Industrial and domestic), their treatment (technology, methodology and capacity) and disposal to be submitted.
- xxxi. Details on renewable energy proposed to be installed as energy conservation measures shall be submitted.
- xxxii. PP shall submit the action plan to adhere to the Plastic Waste Management Rules 2016 and to adhere Ministry's OM dated 18/07/2022.
- xxxiii. PP shall submit design details of all Air Pollution control equipment (APCEs) to be implemented as part of the Environment Management Plan vis-à-vis reduction in the concentration of emission for each APCE.
- xxxiv. The PP should ensure that only NABET accredited consultant shall be engaged for the preparation of EIA/EMP Reports. PP shall ensure that accreditation of consultant shall be valid during the collection of baseline 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.
- xxxv. The PP should submit the photographs of monitoring stations & sampling locations. The photograph should bear the date, time, latitude & longitude of the monitoring station/sampling location. In addition to this PP should submit the original test reports and certificates of the labs which will analyse the samples.
- xxxvi. The R&R Plan shall be prepared in consultation with the district collector for the villages namely Bhaisadon, Hempur, Semarsot, Dhadu, Chitarpur and Nawadih and the same shall be submitted along with the application for EC.
- xxxvii. Project proponent is advised to implement the '*Ek Ped Maa Ke Naam*' Campaign which was launched on 5<sup>th</sup> June 2024 on the occasion of the World Environment Day to increase the forest cover across the Country. This plantation drive is other than Green belt development.
- xxxviii. Necessary coordination shall be made with concerned SPCB (who is responsible for Compliance of OM dated 14.01.2025 & 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.

### 21<sup>st</sup> JANUARY, 2026 [WEDNESDAY]

#### Agenda No. 38.7:

38.7 Dipka Opencast Coal Mine Project (increase in production capacity from 37.50 MTPA to 40 MTPA with increase in ML area from 1999.293 Ha to 1999.386 Ha) **by M/s South Eastern Coalfields Limited**, located at Villages: Dipka; Tehsil: Katghora; District: Korba; State: Chhattisgarh – **Environment Clearance – reg.**

**[Online Proposal No. IA/CG/CMIN/563402/2026; File no. J-11015/487/2007-IA-II(M)]**

**38.7.1:** M/s. South Eastern Coalfields Limited (SECL) has made an online application vide proposal no. IA/CG/CMIN/563402/2026, dated 02.01.2026 along with a copy of EIA/EMP report, Form-1 seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no 1(a) Mining of Minerals, Under Category "A" of the schedule of the EIA

Notification, 2006 and do not attract general condition of EIA Notification, 2006. Hence, the project is appraised at Central Level.

**38.7.2:** As per the MoEF&CC OM dated 8/6/2022, the project proponent is required to submit Certified Compliance Report(CCR) from Regional Office of MoEF&CC/CPCB/SPCB for the conditions stipulated in the existing ECs. The said report is a pre-requisite for considering the expansion proposal by the EAC. However, the same was not submitted by the project proponent along with the application. In view of this, EDS was raised by the Ministry. In response to this, proponent submitted a reply stating that CCR will be made available before the EAC meeting. However, the same was not submitted prior to the EAC meeting.

**38.7.3:** In view of the foregoing and after detailed deliberations, the EAC recommended to ***return the proposal in its present form.***

**Agenda No. 38.8:**

38.8: Hura C Opencast Coal Mining Project (increase in production capacity from 3 MTPA to 3.6 MTPA within the existing ML area of 946.215 Ha) by **M/s Eastern Coalfields Limited**, located at Villages: Hura, Fulbaria, Hahajor, Haripur, Lilatari, Bara Kairbani, Piyaram, Rangmatia, Dumaria, Harkatta, Panchrukhi, Chhota Khairbani, Rabiadih, Paharpur, Jungle Block; Tehsil: Barizore; District: Godda; State: Jharkhand - **Environment Clearance for first phase of 20% expansion as per MoEF&CC OM dated 11.04.2022 – reg.**

**[Online Proposal no. IA/JH/CMIN/557655/2025; File no. J-11015/284/2007-IA.II(M)]**

**38.8.1:** M/s. Eastern Coalfields Limited has made an online application vide proposal no IA/JH/CMIN/557655/2025 dated 08.12.2025 along with copy of EIA/EMP report, Form and Certified compliance report seeking Environment Clearance (EC) under the provisions of the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at schedule no 1(a) Mining of Minerals, Under Category “A” of the schedule of the EIA Notification, 2006 and do not attract general condition of EIA Notification, 2006. Hence, the project is appraised at Central Level.

**38.8.2:** The EAC noted that as per the EC accorded on 11/06/2007, total ML area is 946.215 Ha and extent of forest land is 527.043 Ha. Out of 527.043 Ha, the requisite stage I FC (8-6/2009-FC dated 09.09.2011) & stage II (FC 8-6/2009-FC dated 21.05.2019) is only available for 260 Ha and for the remaining 267.043 Ha, Stage I FC is not in place at all since grant of EC. Besides, present status of 267.043 Ha of forest land also not been made available to the EAC. Further, M/s. ECL has failed to obtain amendment in the EC dated 11/06/2007 by excluding the extent of 267.043 Ha of forest land till date. EAC viewed this matter very seriously.

As per MoEF&CC OM dated 9/9/2011 and its amendments, project proponent should have obtained requisite FC for the entire forest land of 527.043 Ha. In the absence of the same, EAC decided not to consider the instant expansion further.

**38.8.3:** In view of the foregoing and after detailed deliberations, ***the EAC recommended to return the proposal in its present form.*** In addition to this, the Committee asked the Member Secretary to issue a letter to the project proponent stating that no activity shall be undertaken

in the 267.043 Ha of forest land for which requisite FC is not in place and also sought for a site inspection report from Regional Office of MoEF&CC regarding the present physical status of 267.043 Ha of forest land.

**Agenda No. 38.9:**

**38.9:** Expansion of Jayant Opencast Coal Mining Project (having production capacity of 30 MTPA within the ML area of 3177.171 Ha) by **M/s Northern Coalfields Limited**, located at villages: Garda; **District: Singrauli; State: Madhya Pradesh– Amendment in Environment Clearance – reg.**

**[Online Proposal No. IA/MP/CMIN/550381/2025; Consultant: CMPDIL: NABET/EIA/25-28/RA 0412 valid till 08/04/2028]**

**38.9.1:** M/s Northern Coalfields Limited, has made an online application vide proposal no IA/MP/CMIN/550381/2025 dated 11.09.2025 seeking for amendment in the EC accorded vide letter no. IA-J-11015/12/2017-IA-II (M) dated 20.02.2023 for Expansion Jayant Opencast Coal Mining Project [ML Area: 3177.171 Ha having production capacity of 30 MTPA) located at villages: Garda, District Singrauli, State Madhya Pradesh.

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

SN	Details of Letter No.	EC/ Expansion EC/ Amendment in EC/ Validity extension/ Transfer of EC	Capacity (MTPA)	Area (in Ha)	Date of issuance	Status of implementation
1	J-11015/4/82- Env.5/IA.II(M) dated 04.12.1992	EC	10.00	2704.00	04.12.1992	Implemented
2	J-11015/374/2007- IA.II(M) dated 01.05.2008	Expansion EC	12.50	2704.00	01.05.2008	Implemented
3	J-11015/382/2008- IA.II(M) dated 10.12.2008	Expansion EC	15.50	2704.00	10.12.2008	Implemented
4	J-11015/12/2017-IA.II(M) dated 29.08.2018	Expansion EC	25.00	3177.171	29.08.2018	Implemented
5	IA-J-11015/12/2017-IA- II(M) dated 20.02.2023	Expansion EC	30.00	3177.171	20.02.2023	Under implementation

W.r.t the previous approvals, PP submitted the actual production details of the concerned mine and submitted that the mine became operational from 1977-78 onwards. CTO renewal has been obtained from the Madhya Pradesh Pollution Control Board vide consent no. AW-63606 dated 04.01.2026 and is valid up to 28.02.2027.

Details of previous production are as follows:

Year	Actual Coal Production in MTPA	Planned Coal production in MTPA as per CTO/ Environmental Clearance	Excess Production
1977-78	0.15	10.00	Nil
1978-79	0.75	10.00	Nil

Year	Actual Coal Production in MTPA	Planned Coal production in MTPA as per CTO/ Environmental Clearance	Excess Production
1979-80	1.10	10.00	Nil
1980-81	1.57	10.00	Nil
1981-82	1.17	10.00	Nil
1982-83	1.90	10.00	Nil
1983-84	3.00	10.00	Nil
1984-85	3.24	10.00	Nil
1985-86	3.62	10.00	Nil
1986-87	4.44	10.00	Nil
1987-88	5.34	10.00	Nil
1988-89	6.75	10.00	Nil
1989-90	8.66	10.00	Nil
1990-91	9.32	10.00	Nil
1991-92	9.20	10.00	Nil
1992-93	7.85	10.00	Nil
1993-94	8.01	10.00	Nil
1994-95	5.73	10.00	Nil
1995-96	7.54	10.00	Nil
1996-97	9.40	10.00	Nil
1997-98	9.42	10.00	Nil
1998-99	8.59	10.00	Nil
1999-00	9.15	10.00	Nil
2000-01	9.30	10.00	Nil
2001-02	9.12	10.00	Nil
2002-03	9.01	10.00	Nil
2003-04	9.66	10.00	Nil
2004-05	10.00	10.00	Nil
2005-06	9.90	10.00	Nil
2006-07	10.57	10.00	0.57
2007-08	12.79	10.00	2.79
2008-09	13.02	15.50	Nil
2009-10	13.35	15.50	Nil
2010-11	15.50	15.50	Nil
2011-12	14.11	15.50	Nil
2012-13	12.70	15.50	Nil
2013-14	11.74	15.50	Nil
2014-15	11.85	15.50	Nil
2015-16	14.40	15.50	Nil
2016-17	15.40	15.50	Nil
2017-18	15.50	15.50	Nil
2018-19	18.365	25.00	Nil
2019-20	19.53	25.00	Nil
2020-21	21.03	25.00	Nil
2021-22	24.75	25.00	Nil
2022-23	26.66	30.00	Nil
2023-24	30.00	30.00	Nil
2024-25	30.00	30.00	Nil

A court case vide case number 1335/10, 1336/10 and 1349/10 was been filed by the Regional Officer, MPPCB against the Jayant Project at District session court, Singrauli related to excess production of coal and now the case has been disposed in the year of 2022 dated 11.02.2022. The said aspect was duly deliberated during the EC expansion proposal from 15.5 MTPA to 25 MTPA.

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

Specific/ General Condition No	Details of Conditions as per EC	Amendment Sought	Justification																										
Specific Condition 4(i.)	The PP shall transport 28 MTPA of Coal by complete mechanized system (inpit belt conveyor system upto railway siding) by July, 2023 and accordingly CTO shall be granted by SPCB, Remaining 2 MTPA of Coal may be transported through dedicated road. SPCB to grant the CTO regarding road transportatio n for 2 MTPA.	The PP shall transport 27 MTPA of Coal by complete mechanized system and accordingly CTO shall be granted by SPCB, Remaining 3 MTPA of Coal may be transported through dedicated road.	<ul style="list-style-type: none"> <li>➤ The Jayant project is mainly linked to Singrauli Super Thermal Power Station (2000 MW) of M/s. NTPC through dedicated MGR system. The present demand of SSTPS is 9.85 MTPA.</li> <li>➤ There is also a facility to dispatch coal through Indian Railway to other up country power consumers. It is a major coal mine located in Madhya Pradesh and many industries of region depend on it for supply of coal.</li> <li>➤ As per condition of Environmental Clearance letter dated 20.02.2023, mode wise dispatch of coal is detailed below:</li> <li>➤ <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Mode of Dispatch</th> <th>Quantity (MTPA)</th> </tr> </thead> <tbody> <tr> <td>MGR and Rail</td> <td>28</td> </tr> <tr> <td>Road</td> <td>2</td> </tr> </tbody> </table> </li> <li>➤ Singrauli is a remote area &amp; there are many small industries which are not having rail connectivity and if rail connectivity is available with some of them, they still prefer road mode from economic point of view as rail route is longer.</li> <li>➤ Existing coal evacuation capacity available vis -a- vis achievable at Jayant Project is as follows:</li> </ul> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Mode</th> <th>Capacity (MT)</th> <th>Achievable Quantity (MT)</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>Old Coal Handling Plant</td> <td>10.00</td> <td>8.25</td> <td>Operational since 1984-85 and has serviced for more than 40 years. Now 80-82% efficiency due to ageing, frequent break down, wear &amp; tear problems</td> </tr> <tr> <td>New Coal Handling Plant</td> <td>15.00</td> <td>18.75</td> <td>Operational at 120-125% efficiency</td> </tr> <tr> <td>Road Mode</td> <td>2.00</td> <td>2.00</td> <td>As per EC dated 20.02.2023 for 30.0 MTPA</td> </tr> <tr> <td><b>Total coal evacuation</b></td> <td><b>27.00</b></td> <td><b>29.00</b></td> <td></td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>➤ Therefore, only 29.0 MT of coal can be evacuated as per the existing mode wise limitations. The only option to liquidate the remaining 1.0 MT coal is through road mode only</li> </ul> <p>Coal stock position of Jayant Mine since 01.04.2023 are as follows:</p>	Mode of Dispatch	Quantity (MTPA)	MGR and Rail	28	Road	2	Mode	Capacity (MT)	Achievable Quantity (MT)	Remarks	Old Coal Handling Plant	10.00	8.25	Operational since 1984-85 and has serviced for more than 40 years. Now 80-82% efficiency due to ageing, frequent break down, wear & tear problems	New Coal Handling Plant	15.00	18.75	Operational at 120-125% efficiency	Road Mode	2.00	2.00	As per EC dated 20.02.2023 for 30.0 MTPA	<b>Total coal evacuation</b>	<b>27.00</b>	<b>29.00</b>	
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Specific/ General Condition No	Details of Conditions as per EC	Amendment Sought	Justification																												
Year	Productio n in MT	Total Dispatc h in MT	Coal Stoc k in MT	Dispatc h by Eco- friendly mode in MT																											
2023-24	30.00	30	1.458	27.0																											
2024-25	30.00	29.93	1.56	27.93																											
2025-26 Till 31.12.202 5	22.11	21.22	2.465	19.35																											
<ul style="list-style-type: none"> <li>➤ Above data shows that although the evacuation through eco-friendly mode (i.e IR+ MGR) has increased, however due to restriction in transportation through road mode (limited to 2.00 MT) the coal stock has increased exponentially. Increase in stock will lead to air pollution and coal quality degradation.</li> <li>➤ The performance of Old CHP is decreasing year by year. Therefore, coal stock is increasing after 2023-24 due to limitation in dispatch of coal through road mode up to 2.00 MTPA.</li> <li>➤ Jayant project is having Fuel Supply Agreement (FSA) /requirement with different coal consumers for dispatch of coal through road mode only. The average monthly requirement of different sectors are as follows:</li> </ul>																															
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			3	Lalitpur Power Generation Company	16225	Direct rail network is not available with mine
			4	Bajaj Energy Ltd	11964	Direct rail network is not available with mine
			5	Jaypee Nigrie Super Thermal Power Plant	25000	Rail network is not available
			6	Jhabua Power Ltd	5726	Consumer wise monthly requirement is less than one rake/month which is economically not feasible for consumers to transport via rail mode
			7	Neyveli Uttar Pradesh Power Limited	4779	
			8	Prayagraj Power Generation Company	3283	
			<b>Sub-Total</b>		<b>139265</b>	
<b>Major consumers under Non regulated sector under Fuel supply agreement</b>						
Sr. No.	Name of Consumer	Average monthly requirement (Tonnes)	Remarks			
1	Hindalco Industries Limited	45893	Direct rail network is not available with mine			
2	Dalla Cement Works	6337	Direct rail network is not available with mine			
3	Kotputli Cement Works	2694				
4	Orient Paper Mills	1914				
5	Century Pulp & Paper	1800				
6	B L A Power Pvt Ltd	1778				
7	Khanna Paper Mills Ltd	1704				
8	KJS Cement (I) Ltd	1502				
9	Agarwal Coal	1333				

Specific/ General Condition No	Details of Conditions as per EC	Amendment Sought	Justification														
			Corporation Pvt Ltd														
	10	Mahavir Coal Resources Private Limited	1000														
	11	Jaypee Bina Thermal Power Plant	649														
	12	DCM Sriram	624														
		<b>Sub-Total</b>	<b>67228</b>														
		<b>Consumers under e-auction</b>															
		Consumers under e- auction	44000	Small and marginal traders, SME's not having any permanent linkage													
		<b>Total</b>	<b>2,50,493</b>														
			<ul style="list-style-type: none"> <li>➤ Most of coal consumer listed above, require small quantity of coal. Quantities smaller than capacity of one rake would require loading/unloading of coal from the nearest railway siding available and then deploying road transport for end point delivery of coal. This would increase coal handling activities which shall further increase fugitive dust emission causing increased environmental impact. Therefore, road being the only option feasible to them.</li> <li>➤ Some small consumers situated near Singrauli &amp; Sonbhadra region want NCL to provide the coal through road as their requirement is less and are not connected through rail.</li> <li>➤ As per guidelines of Ministry of Coal, the 10% of coal production of the coal from mine is to be offered for sale through e-auction to fulfill the demand of small consumers.</li> <li>➤ Considering the above, coal evacuation by rail mode has already been over utilized and causes frequent congestion in existing Singrauli – Karaila rail network, thereby smaller consumers are suffering for want of coal.</li> <li>➤ Around 45 % consumers as listed above need coal within a distance of 100 KM.</li> <li>➤ Nearly 3000 people residing nearby Jayant OCP are directly dependent on road transportation for livelihood.</li> </ul>														
			<p>In view of the above deliberation, to dispatch targeted 30 MT of coal, the following modification in mode-wise dispatch is being proposed:-</p>														
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	<b>Total</b>	<b>30</b>															

Specific/ General Condition No	Details of Conditions as per EC	Amendment Sought	Justification
			<p><b>Pollution Control Measures being taken on coal transportation road:</b></p> <ul style="list-style-type: none"> <li>• Separate coal transportation CC road has been constructed.</li> <li>• Regular cleaning of road is being done by Road Sweeping Machine &amp; using Back Hoe Loader for lifting of accumulated dust.</li> <li>• 04 no. of Truck Mounted Fog Cannon are deployed.</li> <li>• 05 Nos. of 9 KL &amp; 12 KL pressurized water tankers deployed.</li> </ul> <p><b>Additional pollution Control Measures proposed to be taken on coal transportation road :</b></p> <ul style="list-style-type: none"> <li>• 1 no. Road Sweeping Machine.</li> <li>• 4 nos. of Truck Mounted Fog Cannon on transportation road.</li> </ul>
4(ii)	<p>PP shall submit the complete details for transportation of 2 MTPA coal with dedicated route. No village road shall be used for road transportation and there must be dedicated road for the purpose. Adequate dust mitigation measures such as plantation and water sprinkler system shall be installed along the road. Fleet size shall not be less than 40 tonne for transportation through road on dedicated road.</p>	<p>PP shall submit the complete details for transportation of 3 MTPA coal through road. No village road shall be used for road transportation and there must be dedicated road for the purpose. Adequate dust mitigation measures such as plantation and water sprinkler system shall be installed along the road. Fleet size shall not be less than 30 tonne for transportation through road on dedicated road.</p>	<p>In view of amendment proposed in Specific Condition 4 (i), amendment in capacity for transportation by road may be amended to 3 MTPA. Present available trucks / tippers used for coal transport having capacity about 30 - 40 tonne. Accordingly, the fleet size may be considered not less than 30 tonne.</p>
4(iii)	PP shall explore the possibility of	PP shall explore the possibility of	Project is located in Singrauli District where infrastructure related to hybrid fuel technology/ CNG/ EVs or any other green fuel is not yet available.

Specific/ General Condition No	Details of Conditions as per EC	Amendment Sought	Justification
	deploying up to 50% of trucks for road transportation which shall be based on Hybrid Fuel Technology/ CNG/ EVs and other green fuels.	deploying of trucks for road transportation which shall be based on Hybrid Fuel Technology/ CNG/ EVs and other green fuels as per availability in the region.	Also, vehicles required for transportation of coal are not available based on hybrid fuel technology/ CNG/ EVs or any other green fuel in this region. It is difficult to achieve the percentage of vehicles prescribed in the condition. However, we are committed for use of vehicles based on Hybrid Fuel Technology/ CNG/ EVs and other green fuels as per availability in the market.

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

#### Current dispatch arrangement for coal:

Mode of dispatch	Quantity in MT in 2025-26 (till 30.11.2025)	Remarks
MGR	6.23	-
Rail	10.91	-
Road	1.67	-
<b>Total</b>	<b>18.81</b>	
<b>Total transport through road cum rail in FY 25-26 (till 30.11.25): 18.81</b>		
<b>Total transport through road in FY 25-26 (till 30.11.25): 1.67</b>		

#### Proposed dispatch arrangement for coal:

#### Dispatch Target 30 MTPA:

S. No.	Description	Capacity	Consumer
1	Merry –Go-Round (MGR)	10.08 MTPA	As per the consumer agreements
2	Rail	16.92 MTPA	
3	Through road mode	3 MTPA	Consumers under power sector under Fuel Supply Agreement (FSA), and Consumers under e-auction
	<b>Total</b>	<b>30 MTPA</b>	

### 38.9.5: Traffic Impact Assessment:

- Details of road:** Coal from Pit head of Jayant Opencast project is being transported to Singrauli Railway siding via section 01 and section 02 road. The coal transportation is being segregated on to the dedicated expressway, isolating it from the parallel public road. Section 01 is a mixed traffic zone.

## 2. Traffic density study:

Location	No. of PCU/ Hr	V/C	LoS
On Section 01; Jayant Base Workshop (Near Mudwani) to start point of dedicated expressway	1189.75	0.793	D
On Section 02 (Expressway) Start point of dedicated expressway to Singrauli Railway Siding (Kanta Mod)	1069.3	0.713	D
On Section 02 (Public Road)	421.55	0.281	B
Section 01- 2 lane (Two Way) undivided as per IRC: 106 -1990 - 1500 PCUs Section 02- 2 lane (Two Way) undivided as per IRC: 106 -1990 - 1500 PCUs for both lanes separately.			

The Level of Service (LoS)-is expected to be D & B. The calculated average V/C ratio of suggests level of service to be D (Fair/average) and B (Very Good).

## 3. Air quality monitoring data:

**Baseline Air Quality Period: Month October 2025**

S. No.	Name of Station	Code	Date	Detection level in $\mu\text{g}/\text{m}^3$				
				SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>2</sub>
1	GM Office Jayant	CWA1	27-10-2025	511	251	77	<25	28
2	Jayant CETP	JYA1	03-10-2025	106	71	34	25	29
			24-10-2025	440	232	75	<25	28
3	Coal Substation	JYA2	14-10-2025	456	234	72	26	30
			28-10-2025	88	59	28	<25	27
4	Madhauli Substation	JYA4	09-10-2025	298	193	67	<25	25
			30-10-2025	203	137	56	<25	28

## 4. Noise level monitoring data ( Month October 2025)

S. No.	Name	Zone	Day (leq) dBA		Night (leq) dBA		Noise (Ambient) Standards dBA	
			Max	Min	Max	Min	Day	Night
<b>Industrial Area</b>								
1	Time office near field Workshop - JYN1	Core	72.9	71.5	62.7	61.4	75	70
2	VTC- JYN2	Core	72.1	69.8	61.3	59.5	75	70
<b>Residential Area</b>								
3	Jayant Colony- JYN3	Buffer	51.9	49.7	41.2	39.5	55	45
4	Nigahi Basti- JYN4	Buffer	49.5	47.1	38.7	36.2	55	45

## 5. Details of existing control measures

- Separate coal transportation Cement Concrete road has been constructed.
- Regular cleaning of road is being done by Road Sweeping Machine & using Back Hoe Loader for lifting of accumulated dust.
- 04 no. of Truck Mounted Fog Cannon are deployed.

- 05 Nos. of 9 KL & 12 KL pressurized water tankers deployed.

#### **6. Details of proposed control measures:**

- 1 no. Road Sweeping Machine.
- 4 nos. of Truck Mounted Fog Cannon on transportation road.

#### **38.9.6: Justification for coal transportation by road with increasing capacity from 2MTPA to 3MTPA:**

- Most of coal consumer, require small quantity of coal. Quantities smaller than capacity of one rake would require loading/unloading of coal from the nearest railway siding available and then deploying road transport for end point delivery of coal. This would increase coal handling activities which shall further increase fugitive dust emission causing increased environmental impact. Therefore, road being the only option feasible to them.
- Some small consumers situated near Singrauli & Sonbhadra region want NCL to provide the coal through road as their requirement is less and are not connected through rail.
- As per guidelines of Ministry of Coal, the 10% of coal production of the coal from mine is to be offered for sale through e-auction to fulfill the demand of small consumers.
- Considering the above, coal evacuation by rail mode has already been over utilized and causes frequent congestion in existing Singrauli– Karaila rail network, thereby smaller consumers are suffering for want of coal.
- Around 45 % consumers need coal within a distance of 100 KM
- Nearly 3000 people residing nearby Jayant OCP are directly dependent on road transportation for livelihood.

#### **38.9.7: Justification for coal transportation by road with truck/tippers capacity not less than 30 tonne:**

- In view of amendment proposed in Specific Condition 4 (i), amendment in capacity for transportation by road may be amended to 3 MTPA. Present available trucks / tippers used for coal transport having capacity about 30- 40 tonne. Accordingly, the fleet size may be considered not less than 30 tonne.

#### **38.9.8: Justification for deploying trucks based on Hybrid Fuel Technology/ CNG/ EVs and other green fuels as per availability in the region:**

- Project is located in Singrauli District where infrastructure related to hybrid fuel technology/ CNG/ EVs or any other green fuel is not yet available.
- Also, vehicles required for transportation of coal are not available based on hybrid fuel technology/ CNG/ EVs or any other green fuel in this region. It is difficult to achieve the percentage of vehicles prescribed in the condition.
- However, we are committed for use of vehicles based on Hybrid Fuel Technology/ CNG/ EVs and other green fuels as per availability in the market.

#### **38.9.9: 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

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

**38.9.10: Written Submissions:** During the meeting PP submitted the following information:

1. PP submitted that the internal road for a length of 2.5 km within the ML area will be constructed by 31.10.2026 for transportation of coal from Jayant Project which will minimize the traffic load on public road.
2. PP submitted that 25,000 nos of saplings will be planted by 30.06.2026 within the leasehold area of the project. Also, about one lakh saplings will be planted by 30.11.2026 over the 40 ha OB dump area.

**Observations and deliberation of the Committee:**

**38.9.11: The EAC noted the following:**

1. The instant proposal is for seeking amendment in the EC accorded vide letter no. IA-J-11015/12/2017-IA-II (M) dated 20.02.2023 to M/s Northern Coalfields Limited for Expansion of Jayant Opencast Coal Mining Project (having production capacity of 30 MTPA within the ML area of 3177.171 Ha), located at villages: Garda; District: Singrauli; State: Madhya Pradesh.
2. The above-mentioned EC has been implemented.
3. The instant proposal has been submitted for seeking amendment in Specific Condition No. 4 (i) of the Environmental Clearance dated 20.02.2023. Wherein, it was stipulated that, "*The PP shall transport 28 MTPA of Coal by complete mechanized system (inpit belt conveyor system upto railway siding) by July, 2023 and accordingly CTO shall be granted by SPCB, remaining 2 MTPA of Coal may be transported through dedicated road. SPCB to grant the CTO regarding road transportation for 2 MTPA.*" Now the PP has sought the permission to transport 3 MPTA by road instead of 2 MTPA.
4. PP submitted that most of the coal consumers, require small quantity of coal. Quantities smaller than capacity of one rake would require loading/unloading of coal from the nearest railway siding available and then deploying road transport for end point delivery of coal. This would increase coal handling activities which shall further increase fugitive dust emission causing increased environmental impact. Therefore, road being the only option feasible to them. Some small consumers situated near Singrauli & Sonbhadra region want NCL to provide the coal through road as their requirement is less and are not connected through rail.
5. Further, Committee deliberated on the existing mechanized transportation system of the said project and observed that, following is the coal evacuation capacity available via-a-vis achievable at Jayant Project:

Mode	Capacity (MT)	Achievable Quantity (MT)	Remarks
Old Coal Handling Plant	10.00	8.25	Operational since 1984-85 and has serviced for more than 40 years. Now 80-82% efficiency due to ageing, frequent break down, wear & tear problems
New Coal Handling Plant	15.00	18.75	Operational at 120-125% efficiency

Mode	Capacity (MT)	Achievable Quantity (MT)	Remarks
Road Mode	2.00	2.00	As per EC dated 20.02.2023 for 30.0 MTPA
<b>Total coal evacuation</b>	<b>27.00</b>	<b>29.00</b>	

Committee observed that, as per the existing coal evacuation facility, only 29 MTPA coal can be evacuated through mechanized system.

6. During the deliberation Committee also observed that, one new CHP is under construction for 10 MTPA and measures will be explored to increase its capacity up to 15 MTPA.
7. Committee deliberated on the existing and proposed coal evacuation method for the FY 2025-26. Committee observed that, till now 18.81 MTPA has been transported from the said mine, out of which 6.23 MTPA has been transported by MGR, 10.91 MTPA has been transported by rail and 1.67 MTPA has been transported by road. Further, it is proposed to transport the 30 MTPA coal from the said mine in the current financial year. 10.08 MTPA is proposed to be transported by MGR, 16.92 MTPA is proposed to be transported by rail and remaining 3 MTPA is proposed to be transported by road mode.
8. Committee deliberated on the condition of the road through which is being transported and observed that, coal from the pithead of Jayant OCP is being transported to Singrauli Railway Siding via Section-1 (Jayant Base Workshop (Near Mudwani) to Start point of dedicated expressway) and Section-2 (Start point of dedicated expressway to Singrauli Railway Siding (Kanta Mod)) roads. It was further noted that the coal transportation is segregated onto a dedicated expressway, thereby isolating it from the parallel public road. The Level of Service (LOS) of both the roads is expected to fall under D and B categories after the additional traffic from the said mine.
9. The Committee observed that the Project Proponent (PP) is also constructing a 2.5 km internal road within the mining lease area, which will be dedicated exclusively for coal transportation and is expected to minimize traffic load on the public road. The said internal road is targeted for completion by 31st October 2026.
10. The Committee further deliberated on the Ambient Air Quality (AAQ) and noise monitoring data of the said mine and observed that, although the AAQ and the Noise quality parameters are within the prescribed standard limits, they are on the higher side.
11. The Committee also deliberated on the existing pollution control measures for the mine and proposed additional measures, and opined that all such control measures shall be implemented in a time-bound manner. Committee further opined that, 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.
12. The Committee deliberated on the plantation activities carried out by the Project Proponent (PP) in the said mine and observed that there is scope for gap plantation. Committee opined that the PP shall undertake gap plantation using native and fast-

growing species, with saplings of minimum height not less than four feet, to be completed before the monsoon of 2026. PP submitted that at least 25,000 saplings will be planted within the ML area by 30.06.2026, and approximately 1,00,000 saplings will be planted by 30.11.2026 over the 40-hectare over-dump area. Committee also opined that plantation shall also be carried out on both the sides of coal transportation road, with native and fast-growing species.

13. Another amendment sought by the PP is in the specific condition no. 4(ii) of EC dated 20.02.2023. Wherein. It is stipulated that, *"PP shall submit the complete details for transportation of 2 MTPA coal with dedicated route. No village road shall be used for road transportation and there must be dedicated road for the purpose. Adequate dust mitigation measures such plantation and water sprinkler system shall be installed along the road. Fleet size shall not be less than 40 tonne for transportation through road on dedicated road."* On the basis of the amendment sought in the specific condition no. 4(i), PP has requested to amend the specific condition no. 4(ii) by replacing 2 MTPA with 3 MTPA, so that, 3 MTPA of coal can be transported using road mode. PP also requested to reduce the fleet size from 40 tonnes to 30 tonnes.

14. Another amendment sought by the PP is in specific condition no. 4(iii) of the EC dated 20.02.2023. Wherein it is stipulated that, "PP shall explore the possibility of deploying up to 50% of trucks for road transportation which shall be based on Hybrid Fuel Technology/ CNG/ EVs and other green fuels." PP submitted that, Singrauli district being a remote area, PP shall explore the possibility of deploying up to 50% of trucks for road transportation which shall be based on Hybrid Fuel Technology/ CNG/ EVs and other green fuels. Hence, it is difficult to comply with the said condition. Committee opined that, the condition to deploy 50% of trucks for road transportation can be removed. However, the PP shall continue to explore the feasibility of deploying vehicles based on Hybrid Fuel Technology/ CNG/ EVs and other green fuels as per availability in the market.

15. The committee deliberated on the written submission and found it satisfactory.

#### Recommendations of the Committee:

**38.9.12:** 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. File No. IA-J-11015/12/2017-IA-II (M) dated 20.02.2023 as detailed below, subject to submission of written submissions and fulfilment of the additional specific conditions. Other terms and conditions prescribed in EC dated 20.02.2023, shall remain unchanged:

Condition No. as per EC dated 20.02.2023	Description as per approved EC	Recommendations of EAC
Specific Condition 4(i)	The PP shall transport 28 MTPA of Coal by complete mechanized system (inpit belt conveyor system upto railway siding) by July, 2023 and accordingly CTO shall be granted by SPCB, remaining 2 MTPA of Coal may be transported through dedicated road. SPCB to grant the CTO regarding road transportation for 2 MTPA.	<p><b>Agreed.</b></p> <p>With regard to the changes in the said condition, Committee decided to modify it as follows:</p> <p><i>"Project Proponent shall transport 27 MTPA coal by complete mechanized system (inpit belt conveyor system up to the railway siding). Remaining 3 MTPA coal may be transported</i></p>

Condition No. as per EC dated 20.02.2023	Description as per approved EC	Recommendations of EAC
		<i>through dedicated road to the local and nearby consumers with adequate environmental pollution control measures. SBCB shall accordingly grant the CTO regarding the road transportation of coal.”</i>
Specific Condition 4(ii)	<p>PP shall submit the complete details for transportation of 2 MTPA coal with dedicated route. No village road shall be used for road transportation and there must be dedicated road for the purpose. Adequate dust mitigation measures such plantation and water sprinkler system shall be installed along the road. Fleet size shall not be less than 40 tonne for transportation through road on dedicated road.</p>	<p><b>Agreed.</b></p> <p>With regard to the changes in the said condition, Committee decided to modify it as follows:</p> <p><i>“Project proponent is permitted to transport 3 MTPA coal through dedicated route. No village road shall be used for road transportation and there must be dedicated road for the purpose. Adequate dust mitigation measures such plantation and water sprinkler system shall be installed along the road. Fleet size shall not be less than 30 tonne for transportation through road on dedicated road.”</i></p>
Specific Condition 4(iii)	<p>PP shall explore the possibility of deploying up to 50% of trucks for road transportation which shall be based on Hybrid Fuel Technology/ CNG/ EVs and other green fuels.</p>	<p><b>Partially agreed.</b></p> <p>With regard to the changes in the said condition, Committee decided to modify it as follows:</p> <p><i>“PP shall explore the possibility of deploying of trucks for road transportation of coal which shall be based on Hybrid Fuel Technology/ CNG/ EVs and other green fuels.”</i></p>

#### Additional Specific Conditions:

1. As committed, plantation with native and fast-growing species with saplings of not less than 4 feet height shall be done on both the sides of all the coal transportation road , before the monsoon of 2026. Further, 25,000 nos. of saplings shall be planted by 30.06.2026 within the leasehold area of the project and one lakh saplings shall be planted by 30.11.2026 over the 40 Ha OB dump area.
2. The internal road for a length of 2.5 km within the ML area shall be constructed by 31.10.2026 for transportation of coal from Jayant Project, as committed.
3. Project proponent shall carryout regular maintenance of the potholes on roads, repair and maintenance of roads, scrapping of material fallen on roads, and removal of scraps from mining areas.

4. Project proponent shall widen the shoulders of the coal transportation roads and the same shall be adequately maintained.
5. As committed, additional air pollution control measures (deployment of 1 road sweeping machine, 4 nos. of truck mounted fog canons) should be taken along roads being used for the transport of coal.
6. All the recommendations made in the Traffic Assessment Study Report regarding coal transportation by road shall be strictly adhered with.

**Agenda No. 38.10:**

**38.10:** Rabodih Opencast Coal Mining Project (having production capacity of 2.5 MTPA within the ML area of 603.54 Ha) by **M/s Twenty First Century Mining Private Limited**, located at villages: Rabodih, Kodwe, Huwang, Bhurkunda, Balsagra, Chainpur; Tehsil: Dari; **District: Hazaribagh; State: Jharkhand – Prescribing of Terms of Reference – reg.**

**[Online Proposal no. IA/JH/CMIN/546492/2026; Consultant: Min Mec Consultancy Private Limited: NABET/EIA/25-28/RA 0399 – valid up to 30.03.2028]**

**38.10.1:** M/s Twenty First Century Mining Private Limited, has made an application online vide proposal no. IA/JH/CMIN/546492/2026 dated 05.08.2025 followed by EDS reply on 05/01/2026 along with the application in prescribed format (CAF, Form-I Part A&B), copy of pre-feasibility report and proposed ToRs for undertaking detailed EIA/EMP study as per the EIA Notification, 2006 for the project mentioned above. The proposed project activity is listed at S. No 1(a): Mining of Minerals under Category “A” of the EIA Notification, 2006 and being appraised at Central Level. The project do not attract the provisions of general condition of the EIA Notification, 2006.

The project of M/s Twenty First Century Mining Private Limited located in villages Rabodh, Kodwe, Huwang, Bhurkunda, Balsagra and Chainpur, Tehsil Dari, District Hazaribagh, State Jharkhand propose to set up an open cast coal mine for production of 2.50 MTPA within the mining lease area of 603.54 Ha.

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

**38.10.2: Environmental Site Settings:**

The project area is covered under Survey of India Topo sheet No. F45B6, F45B6, F45B9 and F45B10 and is bounded by the geographical coordinates ranging from Latitudes - 23°43' 40.838" to 23°44' 58.892" N, Longitudes- 85°24' 33.336" to 85°26' 49.015" E as per mining plan approved from MOC.

As per the CEPI Assessment 2018, the said project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA). However, distance certificate from the CEPI area of Hazaribagh is yet to be obtained from the concerned SPCB.

**Forest Area:** The project involves total 220.59 Ha of forestland and application to obtain Stage – I forest clearance has been submitted vide online application no. FP/JH/MIN/QRY/549567/2025 dated 28/08/2025. There is no broken forest land and the project does not involve the violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

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

Schedule – I species in the project area and a Site-Specific Wildlife Clearance Plan is proposed to be prepared for the same.

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

S. No.	Govt. Order/ Notifications as the case may be	Area (Ha)
1	Vide Ministry of Coal, Government of India vesting order no. NA-104/16/2024-NA, dated 08.10.2024	603.54
2	Details of LOI (for area outside lease area)	Nil
	<b>Grand Total</b>	<b>603.54 Ha</b>

**Other Sensitive Receptors:**

Project site proximity to sensitive area	Distance in km (within 10 km from the ML area)			
	Sl. No.	Name of Village	Distance, km	Direction
i. Habitation	1	Rabodh	Within	-
	2	Bhurkunda	Within	-
	3	Chiruatoli	Within	-
	4	Kodwe	Within	-
	5	Darhanatoli	Within	-
	6	Dundughutu	0.31	N
	7	Gurutani	0.66	N
	8	Asangara	0.76	WNW
	9	Horomacha	0.82	N
	10	Balsagra	1.41	N
	11	Purunadih	1.47	WSW
	12	Huang	1.55	N
	13	Porha	1.58	SW
	14	Kanki	1.76	W
	15	Hosir	1.89	SW
	16	Padrangi	1.98	N
	17	Chainpur	2.0	N
	18	Kanauta	2.01	NE
	19	Datma	2.2	E
	20	Mahuatoli	2.5	SE
	21	Senegera	2.63	S
	22	Kaluatanr	2.66	WNW
	23	Dari	2.72	WSW
	24	Murpa	2.82	E
	25	Toera	2.84	NE
	26	Nawadiah	3.21	NNW
	27	Misrain Morha	3.24	WSW
	28	Chatantongritoli	3.24	SW
	29	Bhurkunda	3.3	SSE
	30	Rikba	3.38	W
	31	Kusumbera	3.42	W
	32	Kolhuatoli	3.5	S
	33	Panarbagitoli	3.52	S
	34	Gatiyahi	3.6	N
	35	Majhila Chumba	3.88	S
	36	Ganjudih	3.9	E
	37	Keribanda	3.9	NE
	38	Khapya	3.91	NW
	39	Mahuatoli	4.14	SW
	40	Naditoli	4.17	SW
	41	Chhotka Chumba	4.2	S
	42	Bamandih	4.2	E
	43	Honhemorha	4.4	N
	44	Morha	4.41	N
	45	Orla	4.53	ESE
	46	Barka Chumba	4.53	S
	47	Jobla	4.63	SSE
	48	Dokabera	4.68	WSW
	49	Hesalong	4.82	S
	50	Bhelwatari	4.84	NW

Project site proximity to sensitive area		Distance in km (within 10 km from the ML area)																		
		51	Bumri	4.85	SE															
		52	Thakurgora	5	SE															
ii. School	S. no.	Schools		Distance	Direction															
	1	Rabodh High School		0	-															
	2	New Primary School, Bela, Chirwan		0	-															
	3	Bhurkhunda High school (Rabodh)		0	-															
	4	Huwag Madarsa		0.66	N															
	5	New Primary School, Bhelwa Tungri		1.08	SW															
	6	Utkramit Madhya Vidyalaya, Chainpur		1.85	NW															
	7	Adarsh Birsa High School, Chainpur		2.25	N															
	8	UPG+2 High School, Khapiya		2.39	NW															
	9	Great Universal Public School, Chumba		2.66	S															
	10	Bal Vikash High School, Dari		3.69	SW															
	11	Jharkhand Inter College, Hosir, Giddi C		3.73	SW															
	12	Jharkhand High School, Hosir		3.73	SW															
	13	Kishan Mazdoor Inter College, Giddi C		3.89	SW															
	14	L.D.M Public School, Dari		3.9	SW															
	15	Kishan Mazdoor High School, Giddi C		3.93	SW															
	16	Lalmohan Bediya High School, Khapiya		4.01	NW															
	17	Upper Middle School, Kanki		4.12	SW															
	18	Bal-Vikas Vidyalaya, Hesalong		4.45	SW															
	19	Govt. UPG Middle School Jorakaram, Mandu		4.67	NE															
iii. River/ Waterbody	S. no.	River/Nallah		Distance	Direction															
	1	Rabodh Dam		Within																
	2	Pond in Huang village		0.3	N															
	3	Pond in Kanki village		1.6	W															
	4	Maramgarha nala		1.8	W															
	5	Bahera nala		2.7	N															
	6	Pararu nala		2.7	N															
	7	Chotha Nadi		3.6	E															
	8	Orla Pond		3.8	ESE															
iv. Forest	S. no.	Reserved/ Protected forest		Distance	Direction															
	1	Jorakath PF		Within	-															
	2	PF near Senegara		0.7	SW															
	3	PF near Kusumbera		1.9	W															
	4	PF near Mahuatoli		2.0	SE															
v. Archaeological Survey of India (ASI) protected site	No																			
	<b>List of Hospitals</b> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Name of Hospitals</th><th>Distance, km</th><th>Direction</th></tr> </thead> <tbody> <tr> <td>1</td><td>Government Hospital, Rabodh</td><td>0</td><td>E</td></tr> <tr> <td>2</td><td>Hesalong Hospital, Hesalong</td><td>3.83</td><td>S</td></tr> <tr> <td>3</td><td>Giddi C CCL Hospital</td><td>4.89</td><td>SW</td></tr> </tbody> </table>					Sl. No.	Name of Hospitals	Distance, km	Direction	1	Government Hospital, Rabodh	0	E	2	Hesalong Hospital, Hesalong	3.83	S	3	Giddi C CCL Hospital	4.89
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vi. Any other	<b>Other Industries</b> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Name of Industries</th><th>Distance</th><th>Direction</th></tr> </thead> <tbody> <tr> <td>1</td><td>Anindita Steel Limited</td><td>1.8</td><td>S</td></tr> <tr> <td>2</td><td>ONGC Gas Plant, EPS 2</td><td>3.8</td><td>NE</td></tr> </tbody> </table>					Sl. No.	Name of Industries	Distance	Direction	1	Anindita Steel Limited	1.8	S	2	ONGC Gas Plant, EPS 2	3.8	NE			
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1	Anindita Steel Limited	1.8	S																	
2	ONGC Gas Plant, EPS 2	3.8	NE																	

Following are the diversions proposed in the said project:

- Nala Diversion: Straightening of Gerua Nala (837 m) which is seasonal is proposed to maximize the possible extraction of mineable reserves.
- Road Diversion: 1.1 km Huang- Rabodh road in NE and 3.3 km Kanki-Rabodh road passing east -west will be diverted (7.56 km) along southern boundary.
- Transmission Line: Existing transmission lines (2209 m) within ML area are proposed

- to be diverted (1376 m) along the lease boundary.
- Rabodh Dam is not a dam but a pond made by the villagers of Rabodh. The pond has an area of total 2.79 Ha. A part of the western portion of the pond is falling in the proposed lease boundary of Rabodh Mine for an area of only 0.4 Ha, which is 14.3% of the total area of the pond. The pond is mainly used for fishery and as water source for cultivation. The proposed 0.4 Ha land is part of the external dump. A 7.5 m safety zone will be there from the pond area to safeguard any flow of dump into the remaining dam. Additionally, a retaining wall will be built against the safety zone. Dumps slopes facing the water body will be stabilised by geotextiles and planted at earliest. Chutes for rainwater and settling tanks at garland drain shall be provided to prevent suspended solids from flowing into the water body.
- Since 0.4 Ha area will be used for Mining, the remaining 2.39 Ha dam shall be preserved. From the Mining side, proponent will reconstruct the affected portion of the earthen dam, outside the ML, along the boundary, so that the water body can be maintained.

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

Protection measures to minimise the impact on the villages/ schools/ hospitals shall comprise of:

- Ensuring that the environmental management measures within the mine are implemented so that the air pollution and noise spread to the surroundings are minimum
- Water sprinkling in roads used for transportation near mine
- Plantation in villages and along transportation route
- Strict control on truck over loading, provision of tyre wash, regular vehicle maintenance, tarpaulin-covering on trucks, driver training on various issues, following “no horn, low speed” protocol in/ near inhabited areas.
- Detailed plan shall be prepared during preparation of EIA along with budgetary allocation.

The protection measures for water body has been listed below:

- (1) A barrier of 60 m will be left near by the water bodies.
- (2) Proper gradient shall be maintained on the benches and floors for drainage of water, which will minimise soil erosion and uncontrolled descent of water and construction of garland drains to collect the run off water.
- (3) Construction of settling and sedimentation pond of adequate size to allow settlement of suspended solids in the collected mine discharge water and its storage. Additional treatment such as addition of flocculants, if required, shall be carried out at the settling tank. The treated water will be used for dust suppression and green belt development. This will prevent flow of suspended solids with run off and entering natural water body.
- (4) Construction of garland drain around coal stock yard/coal bunker with desilting chamber to settle solids. This will prevent flow of coal particles with run off and entering natural water body.
- (5) Desilting of sedimentation ponds/ drains at regular intervals to trap suspended solids and protect the water body from additional erosion load.
- (6) Check dams will be provided at vulnerable places within and outside ML area, to minimize erosion, reduce sudden descent of water and settle solids.
- (7) Effluents from workshop, garage or wash areas will be treated through grease/oil traps and then in sedimentation pond and recycled for use again in the workshop. Thus, no water from workshop will go into surface water bodies

- (8) Separate sewage treatment plant for domestic waste water will be set up for treatment and treated waste water reused in dust suppression and green belt watering. Thus, no treated sewage will be released into surface water bodies.
- (9) Dumps slopes facing the water body will be stabilised by geotextiles and planted at earliest. Chutes for rainwater and settling tank at gulland drain shall be provided to prevent suspended solids from flowing into the water body.

**38.10.3: Mining Plan and Mine Closure Plan:** The Mining Plan and Mine Closure Plan for the project was approved for Capacity 2.5 MTPA, Area 603.54 Ha vide letter no. RABODIH OCPJHJH010/APP00321/2024 on 31.07.2025, for the production capacity of 2.5 MTPA within the ML area of 603.54 Ha.

1. Method of Mining to be adopted shall be Opencast. The Capacity of the mine applied for normative capacity is 2.5 MTPA.
2. Excavation of Coal is through shovel/dumper combination. The waste/OB handling is with shovel/dumper combination.
3. Total geological reserve reported in the mine lease area is 146.48 MT (Gross) with 56.448 MT mineable reserves. Out of total mineable reserve, of 53.63 MT are available for extraction. Percent of extraction is 40.272%.
4. 13 seams, with thickness ranging from 0.05 m to 14.30 m, are workable. Grade of coal is G-9/G-10, stripping ratio 6.04 while gradient is 12° to 19°.
5. Life of mine is 25 years.
6. The project has 3 external OB dumps in an area of 48.79 ha, 38.90 ha and 76.56 ha with 110m, 74m and 85m height, respectively and 18 Million cum, 10 Million cum and 30.46 Million cum of OB (with topsoil), respectively. 1 internal OB dump in an area of 272.8 ha with 265.49 Million cum of OB is envisaged in the project.
7. Details of land-use pattern:

**a) Pre-mining**

S. no.	Land use	Within ML Area (Ha)	Outside ML Area (Ha)	Total (Ha)
1.	Forest Land	220.59	0	220.59
2.	Agricultural	371.45	0	371.45
3.	Grazing land	0	0	0
4.	Waste land	0	0	0
5.	Settlements	2.58	0	2.58
6.	Surface Water Bodies	1.87	0	1.87
7.	Barren	2.46	0	2.46
8.	Road	4.59	0	4.59
<b>Total</b>		<b>603.54</b>	<b>0</b>	<b>603.54</b>

**b) Post- Mining**

S. no.	Type	Total Area (Ha)	Reclaimed Area (Ha)	Un- reclaimed area (Ha)
1	Excavation Area	-	-	-
1.1	(a) Backfilled Area	272.88	257.58	15.30
1.2	(b) Excavated Void	52.60	50.00	2.60

S. no.	Type	Total Area (Ha)	Reclaimed Area (Ha)	Un- reclaimed area (Ha)
2	External Dump	164.24	164.24	0
3	Safety Zone	24.98	24.98	0
4	Road and infrastructure	23.11	3.11	20
5	Garland drains	4.04	4.04	0
6	Embankment	0	0	0
7	Others:	-	-	-
	Green Belt	8.27	8.27	0
	Undisturbed	53.42	0	53.42
	<b>Total</b>	<b>603.54</b>	<b>512.22</b>	<b>91.32</b>

8. **Details of transportation of Coal:** The coal is proposed to transport within the outside mining lease in the following manner:

- a) In-pit to surface: Dumpers from quarry to pit head coal stock yard  
Surface to Siding: Trucks/ tippers (Nearest railhead is Kuju which is around 10 km by road. The coal will be transported through road up to the nearest railhead i.e. Kuju and then transported through railway wagons to the potential customers)
- b) Siding to loading: Front end loader
- c) Quantity being transport: by Road/Rail/conveyer/ropeway: By road-cum-rail and/ or conveyor cum- rail for sale to consumers.  
Road transport direct to consumer will be 100% till establishment of first mile connectivity (either rail/ conveyor). It is proposed to construct a railway siding/ conveyor belt in the 4<sup>th</sup> year of operation, when the production will reach 2 MTPA.

9. Total Afforestation plan will be done progressively covering an area of 462.22 Ha at the end of mining. This will include:

- a) Reclaimed external OB dump: 164.24 Ha (plantation)
- b) Internal dump: 257.58 Ha
- c) Greenbelt: 8.27 Ha
- d) Density of tree plantation: 2500/ Ha
- e) Void of 50 ha at a depth of 30 m is proposed to be converted into water body.
- f) Others in Ha (such as excavation area along ML boundary, along roads and infrastructure, embankment area and in township located outside the lease etc.: Safety zone - 24.98 ha, Road & infrastructure - 3.11 ha, Garland drains - 4.04 ha

**38.10.4: Baseline Data:** Baseline data was carried out during 01.10.2025 to 31.12.2025. and the reports are under preparation.

**38.10.5: Details of Water Requirement:** PP submitted that, the total water required for the said project are 50 KLD for construction phase and 3528 KLD for operational phase. Both will be sourced from groundwater. For 50 KLD, approval has been obtained from CGWA vide NOC no. NOC/MIN/JH/2025/6265/N dated 13/05/2025. Application for obtaining the permission for 3528 KLD (operational phase) withdrawal will be submitted to CGWA after the grant of ToR.

Further PP submitted that, a seasonal nallah namely, Gerua Nallah will be straightened (658 m) along NW boundary.

**38.10.6: Details of Power Requirement and diversion of High-Tension/Transmission Line:** Power requirement for the said project is 10 MVA and the same will be sourced from 33/6.6KV from nearest Dari Sub-station of Jharkhand Bijli Vitran Nigam Limited.

Further, PP submitted that Existing transmission lines (2209 m) within ML area are proposed to be diverted (1376 m) along the lease boundary.

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

Type of waste	Type of the waste	Source	Qty (TPA)	Mode of treatment	Disposal	Remark
Solid Waste	Top soil	Excavation	3.23 Mcum	Reuse within ML	over backfilled area, dump and areas to be planted	Top soil removed will be spread over backfilled area and for development of green belt
	OB	Excavation	320.72 Mcum	Reuse within ML	Simultaneous backfilling will be commence from 8th year	It will be put in external dump (within ML and internal backfill)
Solid waste (domestic wastes)	Sludge	from STP	2.97	Reuse within ML	Used as manure in green belt	-
	Sludge	ETP	2.904	Nil at site	Lined pit	-
	Domestic Solid Waste	Canteen	21.78	Waste segregated-wet organic waste shall be composted and used as manure.	Dry recyclable waste will be sold to recycling vendors	-
	Oil & Grease	ETP	1.1616	Nil at site	Given to recycler	-
Plastic waste	Plastic	Packaging waste	2.178	Nil at site	Given to recycler	-
e-waste	Bulbs, tubes, electrical fitting, old laptops, PCs, mobiles, screens, TVs	Administration building	0.01	Nil at site	Given to e-waste dealer	-
Batteries	Lead acid Batteries	Vehicles, UPS, machines & others	1.28	Nil at site	Buy back by supplier	-
Bio-medical waste	Red category - Contaminated Waste (Recyclable) Tubing, bottles, intravenous tubes syringes	First aid centre	0.03	Nil at site	To authorised BMW management agency	-
	Yellow category -Soiled Waste: Items contaminated	First aid centre	0.02	Nil at site	To authorised BMW management agency	-

Type of waste	Type of the waste	Source	Qty (TPA)	Mode of treatment	Disposal	Remark
	with blood, body fluids like dressings					
Hazardous wastes	Used oil/ spent oil	Used oil will be generated from the HEMM, DG set and other machines & vehicles	1.1	Nil at site	Will be handed over to authorized CPCB/ SPCB authorized recycling vendors.	Cotton waste also can be used for combustion in furnaces/ cement kilns
other wastes	Redundant machinery & equipment	Mines	20	Nil at site	will be sold to recycler	-
C&D waste	Bricks, concrete, glass, steel, aluminium, concrete (only during construction phase)	Infrastructure area	20	Recycle within site - utilized for filling low lying areas.	Recyclables shall be sold	-

**38.10.8: Plantation:** 462.22 Ha area will be covered under plantation having 11,55,550 trees @2500 trees/ Ha.

**38.10.9: Rehabilitation & Resettlement Plan:** There are six villages namely Rabodh, Kodwe, Hwang, Bhurkunda, Balsagra and Chainpur within the mining lease area. Out of these villages, 5 nos. will require resettlement and rehabilitation prior to mining in that area. Chainpur village will have only land acquisition. It is estimated that number of Project Displaced Families will be 950 and number of Project Affected Families will be 1065. R&R Policy will be framed as per the RFCTLARR Act 2013 and Jharkhand Rules 2015. The land acquisition will be carried out through District Administration. An application has been submitted to Deputy Commissioner, District Hazaribagh on 14.07.2025 vide letter no. TFCMPL/Rabodh/52 for initiating private land acquisition process.

**38.10.10: Project Cost:** The cost of the project is Rs. 1000 Crores.

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

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

**38.10.12: The Committee noted the following:**

1. The instant proposal is for grant of terms of reference to M/s Twenty First Century Mining Private Limited, for Rabodih Opencast Coal Mining Project (having production capacity of 2.5 MTPA within the ML area of 603.54 Ha) located at villages: Rabodih, Kodwe, Huwang, Bhurkunda, Balsagra, Chainpur; Tehsil: Dari; District: Hazaribagh; State: Jharkhand.
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. As per CEPI Assessment 2018, Hazaribagh is Severely Polluted Area (SPA). However,

PP submitted that it is situated away from the CEPI notified area of Hazaribagh. Committee opined that PP shall seek a letter from the concerned SPCB in this regard.

4. The project involves total 220.59 Ha of forestland and application to obtain Stage – I forest clearance has been submitted vide online application no. FP/JH/MIN/QRY/549567/2025, dated 28/08/2025. There is no broken forestland and the project does not involve the violation of Van (Sanrakshan Eevam Samvardhan) Adhiniyam, 1980.
5. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve. There is presence of Schedule – I species in the project area and a Site-Specific Wildlife Clearance Plan is proposed to be prepared for the same.
6. The said coal block was allocated to M/s Twenty First Century Mining Private Limited, vide Ministry of Coal, Government of India vesting order no. NA-104/16/2024-NA, dated 08.10.2024.
7. The Mining Plan and Mine Closure Plan for the project was approved for Capacity 2.5 MTPA, Area 603.54 Ha vide letter no. RABODIH OCPJHJH010/APP00321/2024 on 31.07.2025.
8. Method of Mining to be adopted shall be Opencast. The Capacity of the mine applied for normative capacity is 2.5 MTPA. Excavation of Coal is through shovel/dumper combination. The waste/ OB handling is with shovel/dumper combination.
9. Total geological reserve reported in the mine lease area is 146.48 MT (Gross) with 56.448 MT mineable reserves. Out of total mineable reserve, of 53.63 MT are available for extraction. Percent of extraction is 40.272%. 13 seams, with thickness ranging from 0.05 m to 14.30 m, are workable. Grade of coal is G-9/G-10, stripping ratio 6.04 while gradient is 12° to 19°.
10. Life of mine is 25 years.
11. The project has 3 external OB dumps in an area of 48.79 Ha, 38.90 Ha and 76.56 Ha with 110m, 74m and 85m height, respectively and 18 Mcum, 10 Mcm and 30.46 Mcum of OB (with topsoil), respectively. 1 internal OB dump in an area of 272.8 Ha with 265.49 Mcum of OB is envisaged in the project.
12. Committee deliberated on the mode of evacuation of coal proposed for the said project and observed that, from in-pit to coal stockyard, the coal is proposed to be transported using dumpers. From surface to siding the same is proposed to be transported by trucks initially. The nearest railway siding is at a distance of 10 km. Coal will be loaded into the railway wagons using Front end loaders. However, in the 4<sup>th</sup> year, when the production reaches 2 MTPA, a railway siding is proposed to be constructed from the mine to Kuju siding.

Committee further opined that, 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. Along with this, PP shall make sure that all the pollution control equipments are in good working condition and maintenance of those

equipment is regularly carried out. Committee also opined that 3-tier plantation with native species shall be developed on both the sides of the coal transportation road.

13. The baseline data has been collected from 01.10.2025 to 31.12.2025 and the reports are under preparation.
14. Total water required for the said project are 50 KLD for construction phase and 3528 KLD for operational phase. Both will be sourced from groundwater. For 50 KLD, approval has been obtained from CGWA vide NOC no. NOC/MIN/JH/2025/6265/N dated 13/05/2025. Application for obtaining the permission for 3528 KLD (operational phase) will be submitted to CGWA after the grant of ToR. Committee observed that Gerua nallah flowing in the north eastern part of the ML area is proposed to be straightened, as there is coal reserves below the same. Committee opined that PP shall carryout the aquatic biodiversity study of the same and a watershed management plan for the same shall be submitted along with the time-bound physical targets. Also, relevant permission in this regard shall be sought from the State Irrigation Department for the said diversion.
15. During the deliberation Committee observed that, some part of Rabodh dam is falling within the ML area and the same is proposed to be diverted. As per the information submitted by the proponent, Rabodh Dam is not a dam but a pond made by the villagers of Rabodh. The pond has an area of total 2.79 Ha. A part of the western portion of the pond is falling in the proposed lease boundary of Rabodih Mine for an area of only 0.4 Ha, which is 14.3% of the total area of the pond. The pond is mainly used for fishery and as water source for cultivation. The proposed 0.4 Ha land is part of the external dump. A 7.5 m safety zone will be there from the pond area to safeguard any flow of dump into the remaining dam. Additionally, a retaining wall will be built against the safety zone. Dumps slopes facing the water body will be stabilised by geotextiles and planted at earliest. Chutes for rainwater and settling tanks at garland drain shall be provided to prevent suspended solids from flowing into the water body. Since 0.4 Ha area will be used for Mining, the remaining 2.39 Ha dam shall be preserved. Proponent will reconstruct the affected portion of the earthen dam, outside the ML, along the boundary, so that the water body can be maintained.
16. Power requirement for the said project is 10 MVA and the same will be sourced from 33/6.6KV from nearest Dari Sub-station of Jharkhand Bijli Vitran Nigam Limited. Committee also observed that the existing transmission line (2209 m) is proposed to be diverted along the lease boundary. Committee opined that the necessary permission from the concerned authority shall be obtained in this regard.
17. Committee deliberated on the plantation proposed for the said project and observed that, total plantation at the stage of mine closure will be developed in 462.22 Ha area.
18. Committee deliberated on the R&R issues of the said project and observed that, there are six villages namely Rabodh, Kodwe, Hwang, Bhurkunda, Balsagra and Chainpur within the mining lease area. Out of these villages, 5 nos. will require resettlement and rehabilitation prior to mining in that area. Chainpur village will have only land acquisition. It is estimated that number of Project Displaced Families will be 950 and number of Project Affected Families will be 1065. R&R Policy will be framed as per the RFCTLARR Act 2013 and Jharkhand Rules 2015. The land acquisition shall be carried out through District Administration. An application has been submitted to

Deputy Commissioner, District Hazaribagh on 14.07.2025 vide letter no. TFCMPL/Rabodh/52 for initiating private land acquisition process.

19. The cost of the project is Rs. 1000 Crores.
20. There is no legal issue/violation w.r.t i) Environment (Protection) Act, ii) Air(P&CP) Act, Water (P&CP), Act, Van (SanrakshanEvamSamvardhan) Adhiniyam, Wildlife Protection Act, MMDR Act, Factories Act. Further, there is no court case on the project

**Recommendations of the Committee:**

**38.10.13:** 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.

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 the Stage – I forestry clearance on the 220.59 Ha of forest land involved in the mine lease area as per MoEF&CC OM dated 9/9/2011 and its amendment.
3. A distance certificate regarding CEPI area shall be obtained from the concerned SPCB. In case, the ML area is in the vicinity of CPA/SPA, additional environmental safeguards as per MoEF&CC OM dated 31/10/2019.
4. Site Specific Wildlife Conservation Plan shall be prepared and approved by the PCCF Wildlife for the Schedule – I species present within the study area of the project.
5. Project proponent shall submit an action plan for relocation of schools located in close vicinity to the lease area in consultation with the State Government of Jharkhand.
6. Details of industrial units present in 10 km radius of the ML area shall be earmarked in map and submitted. A Cumulative Environmental Impact Assessment study of all the coal mines situated adjacent to the mine lease area if any shall be conducted and the same shall be included the in EIA/EMP report.
7. Biodiversity analysis of the core zone and buffer zone of the ML area shall be done through any reputed NABET accredited institute. The study report shall inter-alia include impact of mining on flora and fauna and action plan for complying with the mitigation measures shall be submitted. The Ecology and biodiversity study should include likely impact of land use change in terms of use of forest area for surface infrastructural development in relation to the climate change of that area and what will be the affect after adopting the mitigation measures.
8. 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.
9. 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.

10. 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.
11. A detailed traffic study along with presence of habitation in 100 mts. distance from both side of coal transportation 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.
12. Project proponent shall prepare the EIA-EMP report and thereafter conduct the Public Consultation, including public hearing, through concerned SPCB in the Hazaribagh District as per the provisions/ procedure contained in the EIA Notification, 2006.
13. PP 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 seedling of height not less than 2 meters to be selected and accordingly cost of plantation needs to be decided. In addition to this plantation in the safety zone at lease boundary the plantation should be completed within 2 years only. PP should submit a concurrent plantation plan.
17. Project Proponent should submit the quantity of surface or ground water to be used for this project. The complete water balance cycle needs 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 rainwater harvesting measures. The capital and recurring expenditure to be incurred needs to be submitted.
18. Project proponent shall carry out aquatic biodiversity study for the Gerua nallah, which is proposed to be diverted, through a NABET accredited consultant. A detailed study

for designing shall be carried out for the proposed diversions and the same shall be approved by the State Irrigation Department.

19. Project proponent shall also prepare a integrated watershed management plan for protection of water bodies within the ML area through a NABET accredited consultant.
20. Project proponent shall obtain the permission from the State Irrigation Department for diversion of Gerua nallah.
21. Project proponent shall submit details regarding Rabodh Dam (Earthern), structure, and user details of the same along with the permission obtained from the concerned competent authority/village sarpanch for diversion of part of earthen dam. Project proponent shall submit an action plan for reconstruction of the affected portion of the earthen dam, outside the ML, along the boundary, so that the water body can be maintained forever and measures to be put in place for protection of livelihood of people (fishery and as water source for cultivation).
22. 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.
23. 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.
24. In case of groundwater 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
25. 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.
26. 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.
27. Details on waste water generation (Industrial and domestic), their treatment (technology, methodology and capacity) and disposal to be submitted.
28. Details on renewable energy proposed to be installed as energy conservation measures shall be submitted.
29. 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.
30. 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.
31. 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.

32. 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.
33. Project proponent shall carryout SIA survey to identify the number of families to be rehabilitated and resettled for the said project. Rehabilitation and Resettlement shall be done as per the prevailing laws of the State Government and as per the recommendations of the study.
34. 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 Greenbelt development.
35. Necessary coordination shall be made with concerned SPCB (who is responsible for Compliance of OM dated 14.01.2025 and its amendment) 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. 38.11:**

**38.11:** Pathora West Underground Coal Mine (having production capacity of 0.80 MTPA within the ML area of 554.0843 Ha) by **M/s Shri Bajrang Power and Ispat Limited** located at Villages: Gitor, Ghunghuti, Patnarkala; **District: Umaria; State: Madhya Pradesh - Environment Clearance – reg**

**[Online Proposal no. IA/MP/CMIN/558241/2025; Consultant: Ecomen Mining Private Limited, NABET/EIA/22-25/SA0219 valid up to 23.03.2028]**

**38.11.1:** **M/s. Shri Bajrang Power and Ispat Limited** has made an online application vide proposal no. IA/MP/CMIN/558241/2025 Dated 18.11.2025 along with copy of EIA/EMP report and 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 schedule no.1(a): Mining of minerals Under Category "A" of the schedule of the EIA Notification, 2006 and do not attract the general condition of the EIA Notification, 2006.

Pathora West Underground Coal Mine (having production capacity of 0.80 MTPA within the ML area of 554.0843 Ha) by M/s Shri Bajrang Power and Ispat Limited located at Villages: Gitor, Ghunghuti, Patnarkala; District: Umaria; State: Madhya Pradesh.

The instant proposal was earlier listed in the 32<sup>nd</sup> EAC Meeting held on 24-25<sup>th</sup> September 2025 and the same was returned in its present form due to certain inadequacies in the application form and documents submitted. Now, the proposal is again listed for appraisal in 28<sup>th</sup> EAC meeting held on 20-21<sup>st</sup> January 2026. In the said meeting, the EAC observed that there is Gunghuti Wildlife Corridor situated at a distance of 0.5 km from the boundary of ML area. Committee opined that since the ML area is abutting the wildlife corridor, comments from the wildlife division in this regard inter-alia requirement of National Board for Wildlife

Clearance (NBWL) approval may be sought by the Member Secretary for this particular project. In this regard, member secretary apprised the EAC that wildlife division has opined that Wildlife clearance be solicited by the project proponent.

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

**38.11.2: Environmental Site Settings:**

The project area is covered under Survey of India Topo sheet No. F44D3 (64E3) and is bounded by the geographical coordinates ranging from 23° 21' 0.3940" N to 23° 22' 10.1617" N and longitudes 81° 10' 22.3570" E to 81° 12' 24.7285" 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 149.6878 Ha of forest land. Application submitted on Parivesh Portal on dated 02.03.2024 vide project ID / Single window number SW/173447/2024 and Proposal no. FP/MP/MIN/QRY/464461/2024. The proposal was accepted and forwarded by the State Govt MP to MoEF&CC New Delhi on 10.06.2025. An EDS generated to State Secretary Bhopal on 10.07.2025 and to Project Proponent (PP) on 14.07.2025 for reply. State Govt has replied to MOEF&CC on 10.09.2025. Proposal is being considered by the FAC in its meeting held on 22/01/2026. The proposed mine is in total forest area is 149.6878 ha (including safety zone and all types of forest land), but total forest area proposed to be broken is 19.5 Ha only. 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 one Ghunghuti Wildlife corridor which is situated at 0.5 km in West direction.

The distance map of National Park, wildlife sanctuary and wildlife corridor has been obtained from the office of the Bandhavgarh Tiger Reserve vide letter No.6477 dt 10.11.2025. The authenticated distance is give as below:

S. No.	Type	Distance (In Km)
1	Protected Area	17.168, N
2	National Park	17.168, N
3	Sanctuary	45.683, N
4	ECO Sensitive Zone	10.988,N
5	Wildlife Corridor	0.5 W

According to Wildlife (Protection) Act 1972 and its Amendment, Schedule – I species (namely: Jackal, Sloth bear, Dhole, Striped Hyena, Wolf, Jungle Cat, Indian Porcupine, Gaur, Smooth coated otter, Common palm civet, Oriental civet, Mouse deer, Rat Snake, Monitor Lizard, Gharial, Mugger, Great Indian Bustard, Sociable Lapwing, Indian Vulture and Indian White-rumped Vulture) were found within the study area.

A detailed Wildlife Conservation Plan has been approved vide letter No. Wildlife/VTA-1/MINE-237 dt 03.06.2025, by PCCF Wildlife with financial outlay of Rs. 412.85 lakh covers the protection measures for flora and fauna falls in study area of 10 km of ML area.

**Mine Lease Details:** PP submitted that the block within an area of 640.52 Ha has been allocated by Ministry of Coal, Government of India. Details of the same are as follows.

S. No.	Govt. Order/Notifications as the case may be	Area (in Ha)
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1.	The block allocated by Ministry of Coal, Government of India, Allocation order No: NA-104/29/2023-NA, dated 14.12.2023	640.52
	<b>Total</b>	<b>640.52</b>

**Other Sensitive Receptors:**

Project site proximity to sensitive area		Distance in km (within 5 km from the ML area)		
i. Habitation	S. No.	Village	Distance	Direction
	1.	Ghun Ghuti village	Some Human Settlements falls in ML area	N
	2.	Gitori village		W
	3.	Ghun Ghuti	0.04	S
	4.	Patnar Khurd	0.15	S
	5.	Patnar Kala	0.51	SE
ii. School	S. No.	School	Distance	Direction
	1.	Upper Primary School Chhulha Tola, Chhulha Tola	ML area	N
	2.	Upper Primary School Ghunghuti Baigan Tola, Ghunghuti	Within Mine Area	S
	3.	Upper Primary School Pandan Tola, Ghunghuti	Within Mine Area	S
	4.	Primary School, Githauri	Within Mine Area	W
	5.	Upper Primary School Patnar Kala	0.13	E
	6.	Govt. Hss Ghunghuti	0.28	S
	7.	Middle School Boys Ghunghuti	0.20	S
	8.	Primary School Boys Ghunghuti	0.23	S
	9.	Middle School Girls Ghunghuti	0.24	S
iii. River/ Waterbody	S. No.	River/Nallah	Distance	Direction
	1.	Bijoura Nala	0.1	W
	2.	Murdhoa Nala	0.1	E
	3.	Bhajia Nala	4.41	NW
	4.	Kulhari Nala	3.9	N
	5.	Basar Nala	5.3	S
iv. Forest	S. No.	Reserved/Protected Forest	Distance	Direction
	1.	Shohagpur Reserve Forest covers the block in SW corner, NW corner and part of the NE area of the block.	Within ML area	
	2.	Kuravar R.F	7.2	W
	3.	Jharia R.F	8.7	W
v. Archaeological Survey of India (ASI) protected site	4.	Ahiran Dongri P.F	8.8	NE
	No			
vi. Any other	Nil			

➤ **Details of diversions proposed:** There is no diversion is proposed for the instant underground coal mining project.

**38.11.3: Details of ToR:**

Date of Application	Details	Date of Accord	ToR Validity
04.09.2024	IA-J-11015/63/2024-IA-II(M)	28.10.2024	27.10.2028

**38.11.4: Details of Mining Plan:** Mine plan & Mine Closure plan for the project was approved by the Ministry of Coal (Rated capacity 0.8 MTPA & Peak Capacity: 1.2 MTPA, Area 1044.819 Ha) vide letter no PATHORA WEST COAL MINEMPMP043/APP00289/2024, dated 28.08.2024.

1. Method of Mining to be adopted shall be underground. The Capacity of the mine applied for normative capacity as per approved mining plan is 0.8 MTPA.
2. Excavation of Coal is through fully Mechanized underground coal mine with bord and pillar method & Continuous Miner and Shuttle Cars for extraction of coal during development. Depillaring of panels with caving is proposed with Continuous Miner; as and when required a suitable partial extraction method will be adopted to minimize the effect of subsidence after a detailed scientific study during depillaring operation. The waste/OB generation is Nil as this is underground coal mine.
3. Total geological reserve reported in the mine lease area is 90.1277 MT with 72.416 MT mineable reserve. Out of total mineable reserve of 72.416 MT, 37.155 MT are available for extraction. Percent of extraction is 45.8050%.
4. 10 Seams namely III TOP, III BOT, III COMB, IIA, II TOP, II BOT, II COMB, IB TOP, IB-BOT, and IB COMB. of seams with thickness ranging from 0.07 m to 7.66 m are workable. Grade of coal is G8, stripping ratio 0 while gradient is 2.2° to 3.4°.
5. Life of mine is 50 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	365.571	-	365.571
2.	Forest land	149.687 (Reserved Forest Land 140.8988 Ha +Revenue Forest 8.789 Ha).	-	149.687 (Reserved Forest Land 140.8988 Ha +Revenue Forest 8.789 Ha).
3.	Waste land	-	-	-
4.	Grazing land	8.7288	-	8.7288
5.	Surface Water Bodies	19.374	-	19.374
6.	Settlements	3.363	-	3.363
7.	Other (Road)	7.3592	--	7.3592
<b>Total</b>		<b>554.0843</b>		<b>554.0843</b>

**b) Post –mining land use pattern:**

S. No.	Type	Total Area (Ha)	Reclaimed Area (Ha)	Un-reclaimed area (Ha)
1.	Excavation/Quarry Area:	0.00	0.00	0.00
	(a) Backfilled areas	0.00	0.00	0.00
	(b) Excavated Void	0.00	0.00	0.00
2.	External Dump	0.00	0.00	0.00
3.	Safety Zone	0.00	0.00	0.00
4.	Road and infrastructure	20.04	19.16	0.88
5.	Garland Drains	0	0	0
6.	Embankment	0	0	0

S. No.	Type	Total Area (Ha)	Reclaimed Area (Ha)	Un-reclaimed area (Ha)
7.	Others	534.0443	0	534.0443
	<b>Total area</b>	<b>554.0843</b>	<b>19.16</b>	<b>534.9243</b>

Land break-up for infrastructure land:

Use of land	Forestland (Ha)	Non-forestland (Ha)	Total land (Ha)
<b>Top soil</b>	0.875	-	0.875
<b>Settling pond</b>	0.2815	-	0.2815
<b>Infrastructure</b>	12.3026	0.54	12.8426
<b>Greenbelt</b>	6.0409	-	6.0409
<b>Total</b>	<b>19.5</b>	<b>0.54</b>	<b>20.04</b>

7. **Details of transportation of Coal:** PP submitted that the coal is proposed to be transported within the outside mining lease in the following manner:

- In pit to surface:** Coal from the face will be transported by Shuttle Cars (SC) to a feeder breaker, which will then transfer the crushed coal onto a district gate belt. From there, the coal will be transported to the surface at coal handling plant bunker through a series of trunk belts from underground working.
- Surface to siding:** Railway siding is proposed near the infrastructure area (coal handling plant) where coal will be transported by covered conveyor belt from coal bunkers constructed at coal handling plant.
- Siding to loading:** Railway Siding is proposed near the infrastructure area (coal handling plant) where coal will be transported by mechanized system to the wagons loading for dispatch by railway. For transportation by road, coal from CHP bunker/silo will be loaded into trucks by telescopic chute.
- Quantity being transported by Road/Rail/conveyer/ropeway:** 0.80 MTPA by road and railway
- Proposed change in transportation:** ROM Coal from UG will be brought to surface facility by conveyor belt, loaded into Railway wagon via CHP mechanically and transported to the end users. Initially the coal will be dispatched to end users by road till completion of railway siding work.

8. **Reclamation details:** Out of the total disturbed area of 20.04 Ha land, 19.16 Ha will be reclaimed by dismantling of plant and machinery and plantation of local species with density of 2500 trees/Ha. A total of 47900 nos trees will be planted within 2 years during mine closure. Remaining 0.88 Ha of both incline entry and ventilation shafts are not considered technically reclaimed. Ventilation Shafts and inclines will be sealed and fenced off to prevent any unauthorized entry.

### 38.11.5: Baseline Data:

<b>Period: Baseline</b>	<b>March 2024 to May 2024 i.e. pre-monsoon season</b>
<b>AAQ Parameters at 8 Locations</b>	<ul style="list-style-type: none"> <li>PM<sub>2.5</sub>: 8.0 – 41.3 µg/m<sup>3</sup></li> <li>PM<sub>10</sub>: 32.19 – 68.2 µg/m<sup>3</sup></li> <li>SO<sub>2</sub>: 7.81 – 18.01 µg/m<sup>3</sup></li> <li>NO<sub>x</sub>: 15.2 – 34.8 µg/m<sup>3</sup></li> <li>CO: 0.328 – 0.786 mg/m<sup>3</sup></li> </ul>
<b>Incremental GLC Level</b>	<ul style="list-style-type: none"> <li>PM<sub>2.5</sub>: 0.24 – 2.10 µg/m<sup>3</sup></li> <li>PM<sub>10</sub>: 0.25 – 3.24 µg/m<sup>3</sup></li> <li>SO<sub>2</sub>: 0.01 – 0.19 µg/m<sup>3</sup></li> </ul>

	<ul style="list-style-type: none"> <li>NO<sub>x</sub>: 0.02 – 0.38 <math>\mu\text{g}/\text{m}^3</math></li> <li>CO: 0.001- 0.128 mg/ <math>\text{m}^3</math></li> </ul>																				
<b>Ground water quality at 8 locations</b>	<ul style="list-style-type: none"> <li>pH: 6.65 – 7.53</li> <li>Total Hardness: 164 – 240 mg/l,</li> <li>Chlorides: 12 – 34 mg/l,</li> <li>Fluoride: 0.48 – 1.0 mg/l.</li> <li>Heavy metals: Cu, As, Cr, Cd, Hg, Pb, Se, Mn, Zn &amp; Ni – BDL; Fe : 0.15 – 0.47 mg/l;</li> </ul>																				
<b>Surface water quality at 2 locations</b>	<ul style="list-style-type: none"> <li>pH: 7.24 – 7.6</li> <li>DO: 5.2 – 5.4 mg/l,</li> <li>BOD: 2.3 – 2.6 mg/l</li> <li>COD: 12 – 16 mg/l</li> </ul>																				
<b>Noise levels Leq (Day &amp; Night)</b>	<ul style="list-style-type: none"> <li>Industrial Area: Day 59.5 – 59.5 dB(A); Night 54.0 – 54.0 dB(A);</li> <li>Residential Area: Day 45.2 – 50.2 dB(A); Night 37.9 – 54.0 dB(A);</li> </ul>																				
<b>Traffic assessment Study findings</b>	<ul style="list-style-type: none"> <li>Traffic study has been conducted at NH-43 which is passing through the block boundary</li> <li>Existing PCU is 45 PCU/hr. on NH-43 and existing level of service (LOS) is:0.03</li> </ul> <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><b>NH-43</b></td><td><b>45</b></td><td><b>600</b></td><td><b>0.075</b></td><td><b>A</b></td></tr> </tbody> </table> <p>PCU load after proposed project will be 68 PCU/hr. and there is no change in level of service (LOS) and it will remain A only.</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>NH-43</td><td>23 + 45 = 68</td><td>600</td><td>0.11</td><td>A</td></tr> </tbody> </table> <p>* Note: Capacity as per IRC-64-1990 Guide line for capacity for roads.</p> <p>Conclusion: The level of service will A after including additional traffic due to proposed project.</p>	Road	V (Volume in PCU/hr.)	C (Capacity in PCU/hr.)	Existing V/C Ratio	LOS	<b>NH-43</b>	<b>45</b>	<b>600</b>	<b>0.075</b>	<b>A</b>	Road	V(Volume in PCU/hr.)	C(Capacity in PCU/hr.)	Existing V/C Ratio	LOS	NH-43	23 + 45 = 68	600	0.11	A
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NH-43	23 + 45 = 68	600	0.11	A																	
<b>Flora and fauna</b>	<p>There are 20 Nos Schedule I species as per amendment in WPA (1972) in 2022 present in the study area.</p> <p>Wildlife conservation plan approved vide letter No. Wildlife/VTA-1/MINE-237 dt 3.6.2025 with financial outlay of Rs 412.85 covers the protection measures for flora and fauna falls in study area of 10km.</p>																				
<b>Water</b>	<ul style="list-style-type: none"> <li>Source of Water:- <b>Ground water</b></li> <li>Ground water intersection: <b>Mine will intersect ground water during 4<sup>th</sup> year mine plan period.</b></li> <li>Water requirement: <b>Development Phase: 243 KLD</b> <b>Operational Phase: 773 KLD</b></li> </ul> <p>NOCs (Ground Water): Water requirement during development phase will 243 KLD which will be sourced from Ground water. CGWA NOC has been granted vide letter no. NOC/MIN/MP/2025/11265/N dated 16.10.2025. Subsequently, requirement for mine operation and drinking water will be met from pumped-out mine water and borewell. At full capacity operation, water demand will be 773 KLD (81 KLD domestic BW + 692 KLD Mine Seepage). CGWA NOC application will be applied for 773 KLD before starting of mine dewatering.</p>																				

**38.11.6: Details of Water Requirement:** Water requirement during development phase will 243 KLD which will be sourced from Ground water. CGWA NOC has been granted vide letter no. NOC/MIN/MP/2025/11265/N dated 16.10.2025. Subsequently, requirement for mine

operation and drinking water will be met from pumped-out mine water and borewell. At full capacity operation, water demand will be 773 KLD (81 KLD domestic BW + 692 KLD Mine Seepage). CGWA NOC application will be applied for 773 KLD before starting of mine dewatering. Pumped- out seepage water from the underground mine sump will be used to meet the water requirement for the mine operation purposes (workshop, dust suppression, greenbelt development and firefighting, etc.) and the surplus water will be treated and then supply to the nearby villages for agriculture. There is no river/nallah diversion.

### 38.11.7: Public Consultation/ Hearing:

<b>Details of advertisement given</b>	08.03.2025
<b>Date of public consultation</b>	24.04.2025
<b>Venue</b>	Government Primary School, Pandan Tola, Tehsil Pali, District Umaria, State Madhya Pradesh.
<b>Presiding Officer</b>	Additional Collector, Umaria
<b>Number of Person Attended Hearing</b>	99
<b>Number of representation received in writing from the district and outside of district, please give details:</b>	34
<b>Major issues raised</b>	Health and medical facilities, Infrastructure Development in Ghunghuti, Githauri and Patnarkala Villages, Irrigation and Drinking water Facilities to the Farmers of Ghunghuti Ghithauri and Patnarkalan

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

#### Three year timeline to address Issues Raised during Public Hearing held on 24.04.2025

Sr. No.	Scheme Envisaged in Response to Concern Raised During Environmental Public Hearing Consultation	Year Wise Budget (Rs. Lakhs)			Total Budget (Rs. Lakhs)
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	
<b>Health &amp; Medical Facilities</b>					
1	A full-fledged hospital for both mine employees and the local, project-affected populations to provide a range of medical services, from basic checkups to specialized treatments, equipped with modern medical amenities, tests, ambulance facility and free medicines.	100	150	50	300
	Six monthly Medical camp with free distribution of medicines will be conducted in nearby villages	20	15	15	50
	<b>Total</b>	<b>120</b>	<b>165</b>	<b>65</b>	<b>350</b>
<b>Infrastructure Development in Ghunghuti, Githauri and Patnarkala Villages</b>					
2	Developing safe drinking water facility. 5 Borewell in Ghunghuti, 2 in Githauri and 2 in Patnarkana. Budget, Rs 27 Lakh	15	6	6	27
	Repair and extension of existing water supply pipelines. RS 12 Lakh.	6	3	3	12
	Repair of existing roads, 5 km, Rs 25 Lakh	15	5	5	25
	Bus shelter near villages, 2nos. Rs 10 Lakh.	5	5		10
	Solar lighting, 20 Nos, Rs 10 Lakh.	5	3	2	10
	Repair and renovation of existing temples in villages, 5 Nos, Rs 10 Lakh.	5	3	2	10
	Repairing and extension of rooms in existing Govt. School in Ghunghuti Panchayat. Rs 20 Lakh.	10	10	0	20
	Drainage / Sanitation of Villages Ghunghuti, Githauri and Patnarkalan	4	5	5	14

Sr. No.	Scheme Envisaged in Response to Concern Raised During Environmental Public Hearing Consultation	Year Wise Budget (Rs. Lakhs)			Total Budget (Rs. Lakhs)
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	
<b>Health &amp; Medical Facilities</b>					
1	A full-fledged hospital for both mine employees and the local, project-affected populations to provide a range of medical services, from basic checkups to specialized treatments, equipped with modern medical amenities, tests, ambulance facility and free medicines.	100	150	50	300
	Six monthly Medical camp with free distribution of medicines will be conducted in nearby villages	20	15	15	50
	<b>Total</b>	<b>120</b>	<b>165</b>	<b>65</b>	<b>350</b>
		Plantation will be done in Village Ghunghuti, Githori, Patnar kalan, Patnar Khurd. Total 10000 trees fruit bearing and local species.	8.68	9.92	12.4
		<b>Total</b>	<b>73.68</b>	<b>49.92</b>	<b>35.4</b>
<b>Irrigation and Drinking water Facilities to the Farmers of Ghunghuti Ghithauri and Patnarkalan</b>					
3	Pond Rejuvenation plan for village Gitor, Khatkitola, Ghunghuti, Chhulhatola in core zone and Patnar khurd 1, Patnar Khurd 2, Patnar kalan and Githauri in buffer zone.	70	15	15	100
	Pipeline to supply additional mine seepage water after treatment to villagers for irrigation. (75 to 100 mm pipeline*8 km).	10	12	12	34
		<b>Total</b>	<b>80</b>	<b>27</b>	<b>27</b>
		<b>Grand total</b>	<b>273.68</b>	<b>241.92</b>	<b>127.4</b>
					<b>643</b>

**38.11.8: Project Cost and EMP Cost:** The capital cost of the proposed project is Rs 613.75 Crores and the capital cost for environmental protection measures is proposed as Rs 3000 Lakhs. The annual recurring cost towards the environmental protection measures is proposed as Rs 510 Lakhs. The employment generation from the proposed project is 523.

The details of cost for environment protection measures as follows:

S. No.	Activities	Capital Cost (Rs. in Lakhs)	Recurring Cost (Rs. in Lakhs)
<b>A. Mitigative Measures</b>			
1	Greenbelt development in 6.0409 Ha in the premises project. Density of the plantation 2500 trees/ha. Total 15105 local trees saplings in 3 years and 250 trees at shaft/NH43 linking road.	151	25
2	Rain Water Harvesting Structure	25	4
3	Water collection tank/pond with primary treatment facility	100	20
4	Construction of Garland Drains around coal stockpile & Siltation Pond	25	4
5	Fire Tender, Fire Extinguishers, Mist Sprayers at various locations in the mine area	100	20
6	Installation of Water Spray system on Conveyor/CHP/Coal Stock yard	25	5
7	Permanent water sprinkling arrangements for main haulage road	20	5
8	Mobile water tanker for water sprinkling on other roads and mining areas	30	4
9	Installation, operation & maintenance of Bag Filter at CHP	20	5
10	Auto/Remote controlled water system for dust suppression	50	5
11	Construction of Concrete Road within CHP Area and Railway sidings	500	25
12	Vacuum road cleaning machines -2 Nos	100	20

S. No.	Activities	Capital Cost (Rs. in Lakhs)	Recurring Cost (Rs. in Lakhs)
13	Covering of conveyor belt, rubber curtains at various locations and metal sheet towards Villages	200	35
14	Installation/Operation and Maintenance of ETP of 20 KLD for mine workshop	15	8
15	Installation/Operation and Maintenance of STP of 50 KLD	20	9
	<b>Sub Total (A)</b>	<b>1381</b>	<b>194</b>
	<b>B. Monitoring</b>		
1	Installation of continuous Ambient Air Quality Monitoring Station (01 CAAQMS for PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NOX and CO) with met station.	100	15
2	Manual ambient air quality twice in a week at project site annually at nearby villages	20	10
3	IoT based UG Air Quality Monitoring for CO <sub>2</sub> , CO, CH <sub>4</sub> , air temp & humidity, gas detecting equipments, Gas testing equipments, air quantity measurements	185	20
4	Ground water and surface water quality Analysis (twice in a year) in and around the project site	3	2
5	Ambient Noise Monitoring at the project site (Quarterly) and annually in nearby villages	3	1
6	Soil monitoring (Yearly) in and around the project site	5	1
7	DG Set emission monitoring annually	3	1
8	Procurement of Blast Vibration Measuring Instrument & Noise Level Meter	6	1
9	Work Place Noise Level Monitoring (Quarterly), Noise level Meter	2	1
10	Providing Ear Plugs/Muffs to workers working in high noise level areas & PPEs	2	1
11	Peak Particle Velocity monitoring (Vibration Monitoring)	7	2
12	<b>Sub Total (B)</b>	<b>336</b>	<b>55</b>
	<b>C. Others</b>		
	<b>Wildlife Conservation financial outlay for 20 Nos Schedule 1 Species</b>	412.85	
1	Occupational Health Check-up of Mines Employees (provision of first aid room and shelter home)	500	100
2	Installation of Piezometer in & around ML area	20	6
3	Setting up of Laboratory for Monitoring	200	50
4	Installation of Solar Power plant for infrastructure area	150.15	15
5	Digital mapping of entire mine area once in 3 years	-	5
6	Terrestrial Ecology Study in 3 year	-	5
7	Third Party Annual Audit for Compliance of EC Conditions	-	30
8	Safety and Environment management Training / capacity buildings	-	50
9	<b>Sub Total ( C )</b>	<b>1283</b>	<b>261</b>
	<b>Grand Total</b>	<b>3000</b>	<b>510</b>

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

S. No.	Type of waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
1.	Used Oil/waste oil	Vehicle and transformer	5	Collected in lid tight drums storage on paved platform covered with shed	Used oil and waste oil will be disposed off to CPCB authorized recycler

S. No.	Type of waste	Source	Quantity (TPA)	Mode of Treatment	Disposal
2.	Grease containers	Continuous miner and belt conveyor/pully/roller/ roller pump etc	6	Collected in lid tight drums storage on paved platform covered with shed	Grease containers will be disposed of to CPCB authorized recycler
3.	Used Batteries	UPS, Caplamp and vehicles	1.2	Storage on paved platform covered with shed	Disposed off to CPCB authorized recycler/suppliers
4.	E-Waste Management	Electrical appliances, computers,	1.0	Storage on paved platform covered with shed	E-Waste will be sent to CPCB authorized recycler/suppliers
5.	Biomedical Waste Management	Hospital	25	Storage in designated color coded leak proof container and bags	Biomedical Waste Management Rules, 2016 will be complied for source segregation and safe disposal to SPCB authorized facility for final disposal
6.	Kitchen Waste Management	Canteen	38	Collection from canteen in container and sent to composting machine	Kitchen waste generated from canteen, guest house will be treated in composting machine and manure will be used for plantation.

**38.11.10: Power Requirement and details of diversion of Hi-tension/ Transmission line:**  
The power requirement is 10 MW which will be sourced from GRID power. There is no diversion of Hi-Tension/ Transmission Line.

**38.11.11: Plantation:** Proposed greenbelt will be developed in 6.0409 ha which is about 30.97% of the total infrastructure area of 19.5 ha (coal handling plant area). A 10m wide greenbelt, consisting of at least 3 tiers around the coal handling 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 15105 saplings will be planted and nurtured in 6.0409 hectares in 3 years. Remaining, 13.4591 ha will be developed with plantation, post closure of the mining operation. In addition to this, plantation shall be carried out along roadside on transportation route from CHP to NH 43 (Length 75 Mtr) which will be completed with metallised road work completion. Besides, plantation at Shafts 1 & 2 will be carried out in 0.04 ha with 100 nos of saplings.

**38.11.12: Rehabilitation & Resettlement issues:** There are 2 no of villages within the mining lease area. However, none of the villages are proposed to be shifted as the same is underground mining project.

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

**38.11.14: Details of CTE:** In compliance to the Ministry's OM dated 14.01.2025 and 08.10.2025, PP has submitted an application vide dated 03.12.2025 to MPPCB for obtaining CTE. However, the same is yet to be obtained.

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

1. There is no difference in the documents submitted i.e. Common Application Form, Form 2, EIA/EMP Report and Presentation being made to the EAC.
2. 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 Pathora West Coal Block having an area of ha 554.0843 Ha which is >500 ha. Hence, it falls under Category "A". Therefore, the project is submitted 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 21.01.2026 have no deviation in respect of the Proposal No: IA/MP/CMIN/558241/2025 for Environment Clearance for Pathora West Coal Block (Sohagpur Coalfield) (Block Area: 554.0843 ha) with Proposed Coal Production Capacity: 0.80 Million TPA located at Villages: Ghunghuti, Githauri, and PatnarKalan, Tehsil Pali, District Umaria, and State Madhya Pradesh by M/s. Shri Bajrang Power and Ispat Limited. 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.

**38.11.16:** M/s. Shri Bajrang Power and Ispat Limited made an online application vide proposal no. IA/MP/CMIN/544576/2025 dated 30.7.2025. The proposal was initially considered in 32<sup>nd</sup> meeting of EAC (Coal) held on 24.09.2025. Proposal was returned in its present form due to following observations. The observations and recommendation are given as below:

The proponent submitted the information sought vide letter dated 18.11.2025 uploaded on PARIVESH on 18.11.2025 Point-wise reply is given as below:

S. N. o.	Observation of the EAC	Reply/ Response of PP
1	Committee observed that there is Gunghuti Wildlife Corridor situated at a distance of 0.5 km from the boundary of ML area. Committee opined that since the ML area is abating the wildlife corridor, comments from the wildlife division in this regard inter-alia requirement of National Board for Wildlife Clearance (NBWL) approval may be sought by the Member Secretary for this particular project. Neither the proponent nor the consultant is unable to provide the specific safeguards to be followed in the project due to its proximity to the wildlife corridor.	Wildlife conservation plan approved vide letter No. Wildlife/VTA-1/MINE-237 dt 3.6.2025 with financial outlay of Rs 412.85 covers the protection measures for flora and fauna falls in study area of 10km. The protection measures covered in approved conservation plan are maintenance of natural water holes, soil water conservation works, Pasture development, construction of wildlife patrolling camp, construction of wildlife watch tower, fire protection measures, public awareness training to avoid wildlife and man conflict, purchase of vehicle for transport of manpower and material, purchase of protective equipment (flare gun/trekking equipment), signages for wildlife awareness/ publicity, AI based wildlife surveillance equipment (computer system/ Thermal drone/ binocular/ night vision camera/ trap camera, formation of rapid response team) and administration expenses.

S. N. o.	Observation of the EAC	Reply/ Response of PP																																																																																										
		<p>There are no activities proposed outside the mining lease area towards the wildlife corridor. The entire Infrastructure area will be fenced to avoid the entry of any wildlife. PP will conduct awareness programme for their staff members for protection of wildlife.</p> <p>The ML boundary is at 0.5 km from Gunghuti wildlife corridor and there is no diversion proposal of corridor, hence as per the Section 38-O (1)(g) of the Wildlife (Protection) Act, 1972), National Board for Wildlife Clearance (NBWL) approval is not applicable.</p>																																																																																										
2	<p>Committee also observed the list of Schedule – I species submitted by the project proponent is incorrect. An authenticated list of Schedule – I species shall be obtained from the concerned DFO and shall be resubmitted.</p>	<p>The office of the DFO Umaria has issued the authenticated list of flora and fauna including Schedule-1 species presents in Umaria Forest Division vide letter No. Technical/2025/4592 dt 10.11.2025. Umaria Division includes the Bandhavgarh National Park and Panpatha Wildlife Sanctuary.</p> <p>The distance map of National Park, wildlife sanctuary and wildlife corridor has been obtained from the office of the Bandhavgarh Tiger Reserve vide letter No./6477 dt 10.11.2025. The authenticated distance is given as below:</p> <table border="1"> <thead> <tr> <th>S N</th><th>Type</th><th>Distance (In Km)</th></tr> </thead> <tbody> <tr> <td>1</td><td>Protected Area</td><td>17.168, N</td></tr> <tr> <td>2</td><td>National Park</td><td>17.168, N</td></tr> <tr> <td>3</td><td>Sanctuary</td><td>45.683, N</td></tr> <tr> <td>4</td><td>ECO Sensitive Zone</td><td>10.988,N</td></tr> <tr> <td>5</td><td>Wildlife Corridor</td><td>0.5 W</td></tr> </tbody> </table> <p>The list of the schedule-1 species (31 Nos) mentioned in authenticated list of Umaria division is given.</p> <table border="1"> <thead> <tr> <th>Sr. No.</th><th>English Name</th><th>Scientific Name</th><th>Schedule I species as per amendment in WPA (1972) in 2022 exist in Umaria Division</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Jackal</td><td>Canis aureus</td><td>I</td></tr> <tr> <td>2.</td><td>Sloth bear</td><td>Melursus ursinus</td><td>I</td></tr> <tr> <td>3.</td><td>Tiger</td><td>Panthera Tigris</td><td>I</td></tr> <tr> <td>4.</td><td>Panther, leopard</td><td>Panthera pardus</td><td>I</td></tr> <tr> <td>5.</td><td>Jungle Cat</td><td>Felis chaus</td><td>I</td></tr> <tr> <td>6.</td><td>Striped Hyena</td><td>Hyaena</td><td>I</td></tr> <tr> <td>7.</td><td>Wolf</td><td>Canis lupus</td><td>I</td></tr> <tr> <td>8.</td><td>Indian Fox</td><td>Vulpes bengalensis</td><td>I</td></tr> <tr> <td>9.</td><td>Dhole</td><td>Cuon alpinus</td><td>I</td></tr> <tr> <td>10.</td><td>Oriental civet</td><td>Viverricula indica</td><td>I</td></tr> <tr> <td>11.</td><td>Indian Porcupine</td><td>Hystrix indica</td><td>I</td></tr> <tr> <td>12.</td><td>Gaur</td><td>Bos gaurus</td><td>I</td></tr> <tr> <td>13.</td><td>Blackbuck</td><td>Antilope cervicapra</td><td>I</td></tr> <tr> <td>14.</td><td>Indian Gazelle</td><td>Gazella bennettii</td><td>I</td></tr> <tr> <td>15.</td><td>Four-horned Antelope</td><td>Tetracerus quadricornis</td><td>I</td></tr> <tr> <td>16.</td><td>Sambar</td><td>Rusa unicolor</td><td>I</td></tr> <tr> <td>17.</td><td>Gharial</td><td>Gavialis gangeticus</td><td>I</td></tr> </tbody> </table>	S N	Type	Distance (In Km)	1	Protected Area	17.168, N	2	National Park	17.168, N	3	Sanctuary	45.683, N	4	ECO Sensitive Zone	10.988,N	5	Wildlife Corridor	0.5 W	Sr. No.	English Name	Scientific Name	Schedule I species as per amendment in WPA (1972) in 2022 exist in Umaria Division	1.	Jackal	Canis aureus	I	2.	Sloth bear	Melursus ursinus	I	3.	Tiger	Panthera Tigris	I	4.	Panther, leopard	Panthera pardus	I	5.	Jungle Cat	Felis chaus	I	6.	Striped Hyena	Hyaena	I	7.	Wolf	Canis lupus	I	8.	Indian Fox	Vulpes bengalensis	I	9.	Dhole	Cuon alpinus	I	10.	Oriental civet	Viverricula indica	I	11.	Indian Porcupine	Hystrix indica	I	12.	Gaur	Bos gaurus	I	13.	Blackbuck	Antilope cervicapra	I	14.	Indian Gazelle	Gazella bennettii	I	15.	Four-horned Antelope	Tetracerus quadricornis	I	16.	Sambar	Rusa unicolor	I	17.	Gharial	Gavialis gangeticus	I
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8.	Indian Fox	Vulpes bengalensis	I																																																																																									
9.	Dhole	Cuon alpinus	I																																																																																									
10.	Oriental civet	Viverricula indica	I																																																																																									
11.	Indian Porcupine	Hystrix indica	I																																																																																									
12.	Gaur	Bos gaurus	I																																																																																									
13.	Blackbuck	Antilope cervicapra	I																																																																																									
14.	Indian Gazelle	Gazella bennettii	I																																																																																									
15.	Four-horned Antelope	Tetracerus quadricornis	I																																																																																									
16.	Sambar	Rusa unicolor	I																																																																																									
17.	Gharial	Gavialis gangeticus	I																																																																																									

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		18.	Mugger	Crocodylus palustris	I
		19.	Indian Rock Python	Python Molurus	I
		20.	Rat Snake	Ptyas mucosa	I
		21.	Russell's Viper	Daboia russelii	I
		22.	Indian Chameleon	Chamaeleo zeylanicus	I
		23.	Little Egret	Egretta garzetta	I
		24.	Shikra	Accipiter badius	I
		25.	White-rumped Vulture	Gyps bengalensis	I
		26.	Egyptian Vulture	Neophron percnopterus	I
		27.	Indian Peafowl	Pavo cristatus	I
		28.	Common Crane	Grus grus	I
		29.	Sarus Crane	Antigone antigone	I
		30.	Eurasian Eagle Owl	Bubo bubo	I
		31.	Brahminy Kite	Haliastur indus	I
		As per the site survey, the core and the 10km study area of proposed ML has the following 20 No of schedule-I species:			
		Sr. No.	English Name	Scientific Name	Schedule I WPA (1972022 exist 10km buffer
		1	Jackal	Canis aureus	
		2	Sloth bear	Melursus ursinus	
		3	Dhole	Cuon alpinus	
		4	Striped Hyena	Hyaena	
		5	Wolf	Canis lupus	
		6	Jungle Cat	Felis chaus	
		7	Indian Porcupine	Hystrix indica	
		8	Gaur	Bos gaurus	
		9	Smooth coated otter	Lutra percspicillata	
		10	Common palm civet	Paradoxurus hermaphroditus	
		11	Oriental civet	Viverricula indica	
		12	Mouse deer	Moschiola indica	
		13	Rat Snake	Ptyas mucosa	
		14	Monitor Lizard	Varanus bengalensis	
		15	Gharial	Gavialis gangeticus	
		16	Mugger	Crocodylus palustris	
		17	Great Indian Bustard	Ardeotis nigriceps	
		18	Sociable Lapwing	Vanellus gregarius	
		19	Indian Vulture	Gyps indicus	
		20	Indian White-rumped Vulture	Gyps bengalensis	
3	During the presentation the proponent submitted that, no road transportation of coal is proposed in the instant project. The entire	The company has envisaged to sale the coal in market as the block is allotted for the purpose of Sale and self-use of coal. Total material to be evacuated by the road cum Rail mode is estimated to be 2424.24 TPD			

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	coal is proposed to be transported by conveyor and shafts from underground to surface facility. Further it will be loaded into railway wagon via CHP mechanically and will be transported to the end users by railway. However, in the baseline study submitted by the proponent, it is observed that in the traffic assessment study carried out by the PP, it is mentioned that the existing PCU for NH – 43 (road passing through the block and proposed to be used for the said project) is 45 PCU/ hr. After the commencement of the said project, the load will be 47 PCU/ hr. Committee sought clarity on the increased traffic load, when there is no road transportation of coal proposed for the said project.	with 330 days of working/year. The site is well connected with NH 43 and Railway. Initially the coal will be dispatched to end user by road till completion of railway siding work. However, coal will be dispatched by road in future if the user agency does not have railway sidings for coal unloading infrastructure. Traffic study is done to estimate the existing traffic load and impact of additional traffic due to the proposed project. The existing road is 2 lane-Two-way national Highway No. 43 having designed capacity of 600 PCU/Hr. The existing PCU/Hr is calculated as 45 (LOS "A" Excellent Road performance) and with 100% by road coal transportation, the PCU/Hr is calculated as 68 (LOS "A" Excellent Road performance). Hence, adequate margin is available in the existing NH 43 to bear the traffic load of the proposed coal transportation from Pathora West coal block.																																										
4	The baseline study table does not have the AAQ parameters and the incremental GLC levels comprehensively for both core zone and buffer zone. The same is required to be submitted individually for both core zone and buffer zone.	Baseline environmental study has been carried out from March 2024 to May 2024. All 12 parameters were monitored in accordance with the National Ambient Air Quality Standards, CPCB Notification dated 18th November 2009. Total 8 locations were monitored, out of which one in core zone and 7 locations in buffer zone. GLC levels are predicted based on the activities which are coal handling (Emission: PM <sub>10</sub> and PM <sub>2.5</sub> ) and transportation/DG Set (Emissions: PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>x</sub> and CO).																																										
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5	Committee deliberated on the Contour Plan submitted by the proponent and observed that the same is not correct. The contours are observed to be passing through the water bodies present within the ML area. The same is required to be rectified and submitted again.	The counter map has been thoroughly checked, corrected and submitted. In the corrected contour plan, there is not any contour passing through the water bodies present within the ML area. The mine entries (incline) are proposed at RL of +507m which is 6 m above the HFL level + 501m of Bijoura nala in compliance with regulation 149(2) of CMR, 2017 to keep the lowest point of entrance level of UG mine 1.50 m above the HFL of surface water body.																																										

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6	Committee deliberated on the water requirement for the said proposal and sought clarity on the usage of 773 KLD of water proposed to be used in the said project for the different activities.	<p>The breakup for 773 KLD water requirement is given as below:</p> <table border="1"> <thead> <tr> <th colspan="2">Breakup of water demand</th> </tr> <tr> <th>S N.</th> <th>Purpose</th> <th>Requi KLD</th> </tr> </thead> <tbody> <tr> <td>1</td><td>Underground Spraying after blasting, conveyor transfer points etc.</td><td></td></tr> <tr> <td>2</td><td>Underground water requirement for continuous miner @ 250 lpm/machine for one unit assuming 50% effective operational time (3 nos) = 12Hrs*250 lpm*3 m/c= 540KLD</td><td></td></tr> <tr> <td>3</td><td>Sprinkling at surface for roads, CHP, coal stack etc.</td><td></td></tr> <tr> <td>4</td><td>Fire water makeup</td><td></td></tr> <tr> <td>5</td><td>Plantation and horticulture area @ 15 cum/Ha for 5.40 ha. at the start of the project</td><td></td></tr> <tr> <td>6</td><td>Vehicles washing @ 2.0 m<sup>3</sup> /vehicle/day for 20 vehicles considering 50% Recirculation</td><td></td></tr> <tr> <td>7</td><td>Drinking water at working place @45lpd/head for 1150 persons including visitors and nearby area.</td><td></td></tr> <tr> <td colspan="2"><b>Total KLD.</b></td><td></td></tr> </tbody> </table> <p>Water Balance for 773 KLD water requirement is given as below:</p> <table border="1"> <thead> <tr> <th>Sr. No .</th> <th>Purpose</th> <th>Water Requirement KLD</th> <th>Source</th> <th>Wastewater Generation KLD</th> <th>Dis</th> </tr> </thead> <tbody> <tr> <td>1</td><td>Mines operation underground working (Machineries)</td><td>550</td><td>Underground Water-Mine dewatering and Borewell.</td><td>-</td><td>-</td></tr> <tr> <td>2</td><td>Dust Suppression (Surface)</td><td>60</td><td></td><td>-</td><td>-</td></tr> <tr> <td>3</td><td>Greenbelt</td><td>81</td><td></td><td>-</td><td>-</td></tr> <tr> <td>4</td><td>Mine workshop</td><td>20</td><td></td><td>20</td><td>Aft prin trea use dus sup / con</td></tr> <tr> <td>5</td><td>Domestic Purpose</td><td>52</td><td></td><td>40</td><td>Sew wat be t STI KL trea wat be plan</td></tr> <tr> <td>6</td><td>Fire and other losses</td><td>10</td><td></td><td>-</td><td></td></tr> <tr> <td colspan="2"><b>Total</b></td><td><b>773</b></td><td></td><td><b>60</b></td><td></td></tr> </tbody> </table>						Breakup of water demand		S N.	Purpose	Requi KLD	1	Underground Spraying after blasting, conveyor transfer points etc.		2	Underground water requirement for continuous miner @ 250 lpm/machine for one unit assuming 50% effective operational time (3 nos) = 12Hrs*250 lpm*3 m/c= 540KLD		3	Sprinkling at surface for roads, CHP, coal stack etc.		4	Fire water makeup		5	Plantation and horticulture area @ 15 cum/Ha for 5.40 ha. at the start of the project		6	Vehicles washing @ 2.0 m <sup>3</sup> /vehicle/day for 20 vehicles considering 50% Recirculation		7	Drinking water at working place @45lpd/head for 1150 persons including visitors and nearby area.		<b>Total KLD.</b>			Sr. No .	Purpose	Water Requirement KLD	Source	Wastewater Generation KLD	Dis	1	Mines operation underground working (Machineries)	550	Underground Water-Mine dewatering and Borewell.	-	-	2	Dust Suppression (Surface)	60		-	-	3	Greenbelt	81		-	-	4	Mine workshop	20		20	Aft prin trea use dus sup / con	5	Domestic Purpose	52		40	Sew wat be t STI KL trea wat be plan	6	Fire and other losses	10		-		<b>Total</b>		<b>773</b>		<b>60</b>	
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7	Committee deliberated on the public hearing proceeding for the said project and observed that, water supply, decrease in water levels and water treatment has been one of the main concerns of the public for the said project. Proponent has not provided plan for the same in its public hearing action plan. Committee	<p>The public hearing action plan has been revised, and budget has been increased from 613 to 643 Lakh. Following activities are incorporated in public hearing action plan:</p> <ol style="list-style-type: none"> <li><b>Water supply for drinking/domestic:</b> Construction of Bore wells and pipeline.</li> </ol>																																																																																		

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	opined that, proponent shall provide a plan for water conservation and water reclamation for the said mine and accordingly shall increase the budget of the action plan submitted for the issues raised in public hearing.	<p>i. <b>Drinking water facility.</b> Construction of 5 Nos Borewell in Ghunghuti, 2 Nos. in Githauri and 2 nos. in Patnarkana. Budget, Rs 27 Lakh</p> <p>ii. Repair and extension of existing water supply pipelines. Rs 12 Lakh.</p> <p><b>2. Water supply for agriculture:</b> Pipeline for Mine seepage water supply for agriculture.</p> <p>i. Laying of pipeline and drain to supply additional mine seepage water after treatment to villagers for irrigation. (75 to 100 mm pipeline*8 km). Rs 34 Lakh.</p> <p><b>3. Recharge of ground water:</b> There are 8 Nos. ponds in core and nearby buffer zone area having Size: 28602 m<sup>2</sup> * 2 m average depth with water holding capacity of 57204m<sup>3</sup>. The proposed action plan will rejuvenate the following ponds to increase the additional 50% water holding capacity and de-silting to increase the recharge of ground water aquifers with budget of Rs 1.0 Cr.</p>									
<b>S. N. O.</b>											
Village Name											
Latitude											
Longitude											
Distance (km)											
Direction											
Area (Sq Mtr)											
<b>Within ML area</b>											
1	Gitori Pond	23°21'17.83"N	81°10'33.75"E	ML area	W	1027					
2	Khatkitola pond	23°21'39.29"N	81°10'49.36"E	ML area	W	931					
3	Ghunghuti	23°21'33.82"N	81°11'28.01"E	ML area	N	9301					
4	Chhulhatola Pond	23°21'55.38"N	81°11'26.80"E	ML area	N	3264					
<b>Outside ML area</b>											
5	Patnar khurd 1	23°21'57.99"N	81°13'7.15"E	1.1	E	1165					
6	Patnar Khurd 2	23°21'59.92"N	81°13'8.28"E	1.17	E	6192					
7	Patnar kalan	23°20'1.88"N	81°12'55.85"E	1.9	SE	4997					
8	Githauri	23°20'49.49"N	81°10'15.98"E	0.75	W	1725					
<b>Total</b>						28602					
<b>4. Water treatment:</b>											
<p>i. Sewage water generated from office utility (40 KLD) will be treated in STP (50 KLD) and treated water will be used for plantation.</p> <p>ii. Vehicle washing water generated from workshop of 20 KLD after removal of silt and oil/grease in ETP will be reused for dust suppression in CHP.</p> <p>iii. Mine seepage water (3127 KLD) after proper treatment will be reused in mine operation and to supply the villagers for agriculture.</p>											

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8	During the meeting, proponent submitted that there will be no impact on the ground water due to the said project and no ground water intersection is involved. Committee found the said information to be erroneous as the said project is an underground mining project and ground water intersection and influx of groundwater is supposed to be inevitable. The PP is required to cross check the same and resubmit the information accordingly.	<p>The mine will intersect the water table during start of drifting work for inline which is proposed in 4<sup>th</sup> year mine working plan period (year 2028). From year 2028 onwards, the seepage will vary from 112 m<sup>3</sup>/day to 3127 m<sup>3</sup>/day. The radius of influence works out to be around 1.25 km. The relative volume of ground water (80 MCM) in the aquifer storage and volume of water coming out through Dewatering (Drain which is 0.058 MCM) which is around 0.0006 % in fifth year of mine. The seepage quantity is given as below:</p> <table border="1"> <thead> <tr> <th>Year</th><th>Non- monsoon seepage from all faces (Cubic M)</th><th>Monsoon seepage from all faces (Cubic M)</th><th>Total yearly seepage (Cubic M)</th><th>Seepage (Cubic M)</th></tr> </thead> <tbody> <tr> <td>1<sup>st</sup> year</td><td>0</td><td>0</td><td>0</td><td></td></tr> <tr> <td>2<sup>nd</sup> year</td><td>0</td><td>0</td><td>0</td><td></td></tr> <tr> <td>3<sup>rd</sup> year</td><td>0</td><td>0</td><td>0</td><td></td></tr> <tr> <td>4<sup>th</sup> year</td><td>27,337.86</td><td>13,389.97</td><td>40,728</td><td></td></tr> <tr> <td>5<sup>th</sup> year</td><td>39,476.98</td><td>19,335.66</td><td>58,813</td><td></td></tr> <tr> <td>10<sup>th</sup> year</td><td>1,17,768</td><td>57,682.28</td><td>1,75,450</td><td></td></tr> <tr> <td>15<sup>th</sup> year</td><td>4,28,994.2</td><td>2,10,119.6</td><td>6,39,114</td><td></td></tr> <tr> <td>20<sup>th</sup> year</td><td>7,66,048.2</td><td>3,75,207.4</td><td>11,41,256</td><td></td></tr> </tbody> </table> <p>The seepage water will be pumped- out from the underground mine sump and will be used to meet the water requirement for the mine operation (workshop, dust suppression, greenbelt development and firefighting, etc.) and surplus water will be treated and then supply to the nearby villages for agriculture.</p>	Year	Non- monsoon seepage from all faces (Cubic M)	Monsoon seepage from all faces (Cubic M)	Total yearly seepage (Cubic M)	Seepage (Cubic M)	1 <sup>st</sup> year	0	0	0		2 <sup>nd</sup> year	0	0	0		3 <sup>rd</sup> year	0	0	0		4 <sup>th</sup> year	27,337.86	13,389.97	40,728		5 <sup>th</sup> year	39,476.98	19,335.66	58,813		10 <sup>th</sup> year	1,17,768	57,682.28	1,75,450		15 <sup>th</sup> year	4,28,994.2	2,10,119.6	6,39,114		20 <sup>th</sup> year	7,66,048.2	3,75,207.4	11,41,256					
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5 <sup>th</sup> year	39,476.98	19,335.66	58,813																																																
10 <sup>th</sup> year	1,17,768	57,682.28	1,75,450																																																
15 <sup>th</sup> year	4,28,994.2	2,10,119.6	6,39,114																																																
20 <sup>th</sup> year	7,66,048.2	3,75,207.4	11,41,256																																																
9	Apart from this, the action plan for the public hearing concerns submitted by the proponent is not in the required format and the budget allocated for the same is not adequate to address the issues raised by the public. The public hearing action plan shall be submitted as per the Ministry's OM dated 30.09.2020 along with the increased and appropriate budget to address the concerns raised by the public during the public hearing.	<p>The public hearing action plan has been revised as per the Ministry's OM dt 30.09.2020 along with physical targets. Total budget has been increased from 613 to 643 Lakh.</p>																																																	
10	Committee deliberated on the plantation activities proposed by the proponent and opined that there is no clarity submitted by the PP w.r.t the number of saplings, time frame for planting the saplings year-wise and budget proposed for the same. Committee sought a time bound action plan along with the budgetary provisions for the same and further opined that the budget for plantation shall be accordingly increased. PP shall also submit a plan for community plantation, within the ML area, with the fruit bearing and local species.	<p>Plantation plan has been revised.</p> <p><b>A. Plantation plan at the Infrastructure Area is given as below:</b></p> <ol style="list-style-type: none"> <li>I. 3 tier Plantation along the roadside on transportation route from CHP to NH 43 (Length 75 Mtr) is proposed with total local species of 150 which will be completed with metalled road work completion.</li> <li>II. Plantation at Shafts 1 &amp; 2 (Shaft land 0.54 ha) = 0.04 ha, Saplings 100 Nos will be planted along with shaft work.</li> <li>III. 3-tier plantation all along the CHP boundary with 10 mtrs width tree plantation of broad leaves and wind break green shield of about 10 mts height along the boundary of coal storage yard.</li> <li>IV. Total Capital cost of plantation is Rs 151 Lakh and Recurring Rs 25 Lakh annually.</li> </ol> <p>Year wise plantation at Infrastructure site:</p> <table border="1"> <thead> <tr> <th>Year</th><th>Area to be Covered (Ha)</th><th>Number of Trees to be Planted</th><th>Survival Rate</th><th>Location</th><th>Species</th></tr> </thead> </table>	Year	Area to be Covered (Ha)	Number of Trees to be Planted	Survival Rate	Location	Species																																											
Year	Area to be Covered (Ha)	Number of Trees to be Planted	Survival Rate	Location	Species																																														

S. N. o.	Observation of the EAC	Reply/ Response of PP					
		1 <sup>st</sup> Year	1.208	3021	90%	Along the CHP boundary	<ul style="list-style-type: none"> <li>Total Saplings are 15105</li> <li>Local trees (12200 Nos)</li> <li>Fruit bearing species (3404 Nos).</li> <li>Species: Neem, Peepal, Banyan, Shisham, Sal, Mahua, Imlí, Mango, Amla, Lamon, Guava etc.</li> <li>Size of plants = 7.5m-10m height</li> <li>Density of the plantation = 2500 trees/ha.</li> </ul>
		2 <sup>nd</sup> Year	2.416	6042	90%	Office Area	
		3 <sup>rd</sup> Year	2.416	6042	90%	Along Road Area	
		Total	6.0409	15105	90%		

**B. Community Plantation Plan:** Fruit bearing and local species are proposed in core zone villages namely Ghunghuti & Githori and buffer zone Villages namely Patnar kalan & Patnar Khurd. Total 10000 Nos. trees will be planted in 3 years out of which 3000 Nos. will be fruit bearing and 7000 Nos. will be local species. Species are Neem, Peepal, Banyan, Shisham, Sal, Mahua, Imlí, Mango, Amla, Lamon, Guava etc. Total budget is Rs 31 Lakh.

11	Committee also observed that the land use pattern submitted by the PP is not as per the format of Annexure – II (brief summary). The same is required to be submitted in the appropriate format.	Annexure-II (Brief summary) has been updated with land use pattern. The Land use plan is given as below:
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**a. Pre-mining**

S. No.	Land Use	Within ML Area (Ha)	Outside ML Area (Ha)	Total (Ha)
1.	Agricultural Land	365.571	-	365.571
2.	Forest land	149.687 (Reserved Forest Land 140.8988 ha +Revenue Forest 8.789 ha).	-	149.687 (Reserved Forest Land 140.8988 ha +Revenue Forest 8.789 ha).
3.	Waste land	-	-	-
4.	Grazing land	8.7288	-	8.7288
5.	Surface Water Bodies	19.374	-	19.374
6.	Settlements	3.363	-	3.363
7.	Other (Road)	7.3592	--	7.3592
	Total	554.0843		554.0843

**b. Land Use During Mining**

S. No.	Land Use during Mining	Land Use (Ha)				
		Plantation	Water Body	Public Use	Undisturbed	Total
1.	External OB Dump					0
2.	Top Soil dump	0.875				0.875
3.	Excavation					0
4.	Roads			0.28		0.28
5.	Built up areas	12.5841		0.26		12.8441
6.	Greenbelt	6.0409				6.0409

S. N. o.	Observation of the EAC		Reply/ Response of PP			
7.	Plantation (apart from Green Belt)					0
8.	Safety Zone				3.4305	3.4305
9.	Undisturbed Area		19.374		511.2398	530.6138
	Total Area	19.5	19.374	0.54	514.6703	554.0843

**c. Post-Mining**

S. No.	Type	Total Area	Reclaimed Area	Un-reclaimed area
1.	Excavation/Quarry Area:	0	0	0
	(a) Backfilled areas	0	0	0
	(b) Excavated Void	0	0	0
2.	External Dump	0	0	0
3.	Safety Zone	0	0	0
4.	Road and infrastructure	20.04	19.16	0.88
5.	Garland Drains	0	0	0
6.	Embankment	0	0	0
7.	Others	534.0443	0	534.0443
	Total area	554.0843	19.16	534.9243

12	Committee deliberated on the Scientific Study Report carried out by NIT Raipur for Impact Assessment of Underground Mining Activities on Air Quality and the Environment of the said project and observed in the recommendations that strict adherence to the provisions of CMR 1957 is mentioned to be followed. Committee opined that CMR 1957 has been superseded by CMR 2017 and accordingly the necessary corrections shall be made.	<p>Impact Assessment of Underground Mining Activities on Air Quality and the Environment with Mitigation Measures has been revised by the NIT Raipur incorporating the following mitigation measures as per CMR 2017 which will be implemented by the Pathora UG Coal mine.</p> <p><b>Air Quality Mitigation Measures:</b></p> <ol style="list-style-type: none"> <li>1. Drilling &amp; Blasting proposed for drifting work will be wet operated.</li> <li>2. Continuous miner will be fitted with water sprays system to suppress dust generated during the excavation.</li> <li>3. Water will be sprayed on coal seams before mining to pre-wet the coal and reduce dust generation at the source.</li> <li>4. Road connecting CHP to NH 43 for transportation of coal will be black topped with plantation on either side of the road.</li> <li>5. Internal roads in CHP will be black topped and properly maintained.</li> <li>6. All roads will be cleaned by vacuum sweeping machine.</li> <li>7. Storage of coal other than silo/bunker at CHP will be stored in covered shed.</li> <li>8. Coal transportation from CHP silo/bunker to railway siding for wagon loading will be covered conveyor belt and provided with bag dust collector at transfer points.</li> <li>9. Fog cannon shall be provided at CHP site for dust suppression during coal loading trucks.</li> <li>10. A telescopic chute will be provided at coal silo for coal loading into trucks to maintain dust free coal loading.</li> <li>11. Coal transport by road will be by covered trucks.</li> <li>12. Water mist sprinkling system will be provided to check fugitive emissions from loading operations, conveyor system, haulage roads, transfer points.</li> <li>13. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate.</li> <li>14. All underground machineries will be operated on electrical power.</li> <li>15. One continuous ambient air quality monitoring station will be installed at CHP site for real time monitoring of PM10, PM2.5, SO2, NOx and CO. The real time data shall be uploaded on company website, displayed at main gate and linked with website of CPCB &amp; SPCB.</li> </ol>
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S. N. o.	Observation of the EAC	Reply/ Response of PP
		<p>16. Four periodic ambient air quality monitoring stations shall be established in the core zone Villages namely Ghunghuti and Githori as well as in the buffer zone villages namely Patnar kalan &amp; Patnar Khurd for monitoring PM10, PM2.5, SO<sub>2</sub>, NO<sub>x</sub> and CO.</p> <p>17. Monitoring of noise level at CHP site and all four village on quarterly basis.</p> <p>18. According to the scientific report and relevant literature, the in-situ gas content at the Pathora West Coal Block in Madhya Pradesh demonstrates a very low concentration of methane. This finding corresponds to a classification of Degree 1 for the gassiness of the coal seams in the Pathora West Coal Block. However, the definitive assessment of gassiness, shall be evaluated based on the rate of methane production per tonne of coal mined upon the opening of the mine, the development of operational districts, and the establishment of a comprehensive ventilation system, as per Sec 153 of CMR 2017. Considering the minimal potential for methane in the coal seams and roof/floor rock formations at Pathora West, Madhya Pradesh, there is no need for gas drainage. The proposed conventional ventilation system will adequately manage the gas emissions from the Pathora East Coal Block in Madhya Pradesh.</p> <p><b>Ventilation Measures:</b></p> <p>As per regulation 153 of CMR Rule 2017, following steps are proposed for mine belowground for adequate ventilation to clear away smoke, steam and dust, to dilute the inflammable or noxious gases and to provide air containing sufficient oxygen and temperature or humidity for safety and health of people.</p> <ol style="list-style-type: none"> <li>1. Maintain minimum 6 m<sup>3</sup> / minute of air per person employed on the largest shift or not less than 2.5 m<sup>3</sup>/minute of air per tonne of daily output, whichever is larger, passes along the last ventilation connection in the district.</li> <li>2. Maintain &gt;19% O<sub>2</sub> and &lt; 0.5 % CO<sub>2</sub>/ noxious gases at every place in the mine.</li> <li>3. Inflammable gas shall not exceed 0.75% in return air of any ventilating district and 1.25% in any place in the mine.</li> <li>4. Installation of automatic online gas monitoring system for CO<sub>2</sub>, CO and CH<sub>4</sub> fitted with audio visual alarm and uninterrupted power supply arrangement.</li> <li>5. Maintain wet bulb temperature in any working place &lt; 33.5°C and wet bulb temperature &lt; 30.5°C.</li> </ol> <p><b>Underground Fire Control Measures:</b></p> <ol style="list-style-type: none"> <li>1. Installation of wireless Sensor Networks (WSN) for temperature, humidity, and various gases (like methane etc) throughout the mine.</li> <li>2. Installation of IoT-based systems to gather data from sensors and transmit real-time data to a central control unit for analysis.</li> <li>3. Regular inspection by mine officials to spot early signs of spontaneous heating.</li> <li>4. Provide fire suppression system such as High-pressure nitrogen foam, High-pressure water mist systems and use of quick-setting materials to construct stoppings for quickly isolate a fire-affected area.</li> <li>5. Use of stone dust to mine workings to prevent coal dust explosions, which can lead to fires.</li> </ol> <p><b>Occupational Health Checkup and safety:</b></p> <ol style="list-style-type: none"> <li>1. Provided adequate training and information on safety and health aspects to all working at mine site.</li> <li>2. Regular periodic health checkup of all workers annually including occupational diseases and hearing impairment and mitigation accordingly.</li> </ol>

S. N. o.	Observation of the EAC	Reply/ Response of PP																								
		<p>3. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with mandatory PPEs such as head protection (hard hat with lamp), eye and face protection (goggles, face shields), hearing protection (earplugs/earmuffs), respiratory protection (dust masks/respirators), protective clothing, steel-toed safety boots, gloves for hand protection, and carry a self-rescue device with a personal lamp to ensure visibility and safety in the harsh environment.</p> <p>4. Installation of solar lights along the road used for transportation of minerals to avoid the accidents at night in 10 km radius area and its maintenance.</p> <p>5. Maintain a proper illumination level as per the DGMS standards. Suggested levels are places where loading, unloading or transfer is carried on (including stack yards), the minimum 15 Horizontal lux (15 H) and 15 Vertical lux (15 V), Operation points with minimum 50 Horizontal lux (50 H) and General places in the CHP and transportation with minimum 20 Horizontal lux (20 H).</p>																								
13	<p>In the presentation made before the EAC, the recommendations of NIT Raipur are found to be generic in nature and observed to not specific to the instant project.</p>	<p>NIT Raipur study report prepared for subsidence predictions has been revised. A comprehensive assessment is done for the expected surface subsidence arising from multi-seam extraction of the III COMB, II COMB, and IB COMB seams through the method of depillaring with caving.</p> <ul style="list-style-type: none"> <li>Predicted results are given as below:</li> </ul> <table border="1" data-bbox="720 990 1389 1275"> <thead> <tr> <th data-bbox="720 990 822 1102">Sl. No.</th> <th data-bbox="822 990 917 1102">Seam</th> <th data-bbox="917 990 1013 1102">Depth of the Seam (m)</th> <th data-bbox="1013 990 1116 1102">extracti on height</th> <th data-bbox="1116 990 1267 1102">Cum. Smax (mm)</th> <th data-bbox="1267 990 1389 1102">Cum. E mm</th> </tr> </thead> <tbody> <tr> <td data-bbox="720 1102 822 1163">1.</td> <td data-bbox="822 1102 917 1163">III COMB</td> <td data-bbox="917 1102 1013 1163">280</td> <td data-bbox="1013 1102 1116 1163">4</td> <td data-bbox="1116 1102 1267 1163">314</td> <td data-bbox="1267 1102 1389 1163">1.</td> </tr> <tr> <td data-bbox="720 1163 822 1224">2.</td> <td data-bbox="822 1163 917 1224">II COMB</td> <td data-bbox="917 1163 1013 1224">323</td> <td data-bbox="1013 1163 1116 1224">3</td> <td data-bbox="1116 1163 1267 1224">549</td> <td data-bbox="1267 1163 1389 1224">1.</td> </tr> <tr> <td data-bbox="720 1224 822 1275">3.</td> <td data-bbox="822 1224 917 1275">IB COMB</td> <td data-bbox="917 1224 1013 1275">343</td> <td data-bbox="1013 1224 1116 1275">3</td> <td data-bbox="1116 1224 1267 1275">784</td> <td data-bbox="1267 1224 1389 1275">2.</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>The cumulative subsidence increased progressively with the extraction of successive seams. After depillaring of the III COMB seam, a subsidence of 314 mm was observed, which further increased to 549 mm following depillaring of the II COMB seam, and finally reached a total of 784 mm after extraction of the IB COMB seam. Correspondingly, the cumulative maximum tensile strain (Emax-) also increased from 1.1 mm/m after the first seam to 1.7 mm/m after the second, and ultimately to 2.3 mm/m after the third seam, indicating a gradual intensification of tensile strain with successive mining at deeper horizons. These values fall well within the permissible deformation limits accepted in Indian coalfields for moderate-depth workings (280–343 m) in accordance with the guidelines recommended by DGMS, IBM, and MoEFCC for areas devoid of critical surface structures (“HANDBOOK_GUIDELINES18_03_2019,” 2019).</li> <li>The estimated cumulative maximum surface subsidence (Smax) of 784 mm after depillaring of all three seams is expected to cause only minor surface manifestations, such as fine cracks and localized depressions, rather than extensive ground deformation, as the workings fall within the sub-critical category. Moreover, since the overlying area comprises forest land, the overall environmental impact is expected to be negligible, given that the maximum tensile strain (Emax-) remains below 5 mm/m.</li> </ul>	Sl. No.	Seam	Depth of the Seam (m)	extracti on height	Cum. Smax (mm)	Cum. E mm	1.	III COMB	280	4	314	1.	2.	II COMB	323	3	549	1.	3.	IB COMB	343	3	784	2.
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S. N. o.	Observation of the EAC	Reply/ Response of PP
		<ul style="list-style-type: none"> <li>Continuous monitoring of surface subsidence and periodic validation with field data to strengthen the reliability of the predictive models.</li> <li>A detailed assessment should be undertaken after approximately 50% of the panels in the III COMB seam have been depillared. The updated results should be compared with model predictions to verify the reliability of the adopted parameters.</li> <li>If field monitoring indicates a higher-than-expected rate of subsidence, suitable control measures such as controlled caving, barrier pillar reinforcement, or staggered extraction should be implemented under expert guidance.</li> </ul>
14	Committee further observed that the documents circulated by the PP before the meeting as per the agenda, have not been completely filled and the information asked has not been filled in the prescribed format. Proponent and the consultant are required to carefully fill the required information, and the agenda documents shall be timely circulated.	Duly filled agenda documents are submitted.
15	The committee advised the proponent to revisit the entire proposal in totality including the above-mentioned observations. Thereafter, appropriate changes in all the requisite documents such as common application form, EIA/EMP report and the presentation etc shall be carried out and the proposal shall be submitted afresh for fresh consideration by the EAC.	The revised common application form, revised PPT, revised NIT Hydro-geology report and revised EIA/EMP study report have been uploaded on Parivesh Portal.

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

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

1. The instant proposal is for seeking environment clearance for Pathora West Underground Coal Mine (having production capacity of 0.80 MTPA within the ML area of 554.0843 Ha) by M/s Shri Bajrang Power and Ispat Limited located at Villages: Gitor, Ghunghuti, Patnarkala; District: Umaria; State: Madhya Pradesh.
2. The instant proposal was earlier listed in the 32nd EAC Meeting held on 24-25th September 2025 and the same was returned in its present form due to certain inadequacies in the application form and documents submitted. PP submitted a fresh application vide proposal no. IA/MP/CMIN/558241/2025 Dated 18.11.2025, along with the relevant documents.
3. The instant proposal is a Greenfield underground coal mining project.
4. The EAC took into consideration the project site through kml file on the Google Earth presented by the project proponent along with DSS of the project site on PARIVESH.
5. Project does not fall in the Critically Polluted Area/ Severely Polluted Area, as per CEPI Assessment 2018.
6. The project involves total 149.6878 Ha of forest land. Application for obtaining Stage – I forest clearance for the same has been submitted on Parivesh Portal, vide Proposal no. FP/MP/MIN/QRY/464461/2024, dated 02.03.2024. Committee also observed that, total mine infrastructure will be established in 20.04 Ha, out of which, 19.5 Ha will be

located in the forestland and remaining 0.54 Ha will be located into non-forestland. PP submitted that due to water level of Bijauri nallah, during the monsoon season, there is risk of water inflow in the mine infrastructure. Hence, the infrastructure is proposed in the forest area.

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 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.

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 one Ghunghuti Wildlife corridor Wildlife Corridors which is situated at 0.5 km in West direction. The distance map of National Park, wildlife sanctuary and wildlife corridor has been obtained from the office of the Bandhavgarh Tiger Reserve vide letter No.6477 dt 10.11.2025. PP submitted that, the ML boundary is at 0.5 km from Gunghuti wildlife corridor and there is no diversion proposal of corridor, hence as per the Section 38-O (1)(g) of the Wildlife (Protection) Act, 1972), National Board for Wildlife Clearance (NBWL) approval is not applicable. PP submitted that, no activities proposed outside the mining lease area towards the wildlife corridor. The entire Infrastructure area will be fenced to avoid the entry of any wildlife.

Member Secretary apprised the Committee that, as per the advice of the EAC, MS forwarded a file to the Wildlife Division to seeks its comments on the applicability of the Wildlife Clearance for the instant project. In response of this, the WL Division has opined that Wildlife Clearance be solicited by the project proponent. In view of this, EAC recommended to stipulate an appropriate condition.

7. There is presence of Schedule – I species within the study area and a detailed Wildlife Conservation Plan has been approved vide letter No. Wildlife/VTA-1/MINE-237 dt 03.06.2025, by PCCF Wildlife with financial outlay of Rs. 412.85 lakh covers the protection measures for flora and fauna falls in study area of 10 km.
8. The said block was allotted to the PP by Ministry of Coal, Government of India, vide allocation Order no. NA-104/29/2023-NA, dated 14.12.2023.
9. 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 3 upper primary and 1 primary school present within the ML area. Committee opined that, facilities such as solar lights, RO plants and education and sports facility shall 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.
10. The ToR for the said project was granted vide letter dated 28.10.2024.
11. Mine plan & Mine Closure plan for the project were approved by the Ministry of Coal (Rated capacity 0.8 MTPA & Peak Capacity: 1.2 MTPA, Area 1044.819 Ha) vide letter no PATHORA WEST COAL MINEMPMP043/APP00289/2024, dated 28.08.2024. The Capacity of the mine applied for is normative capacity as per approved mining

plan, which is 0.8 MTPA.

12. Method of Mining to be adopted shall be underground. Excavation of Coal is through fully Mechanized underground coal mine with bord and pillar method & Continuous Miner and Shuttle Cars for extraction of coal during development. Depillaring of panels with caving is proposed with Continuous Miner; as and when required a suitable partial extraction method will be adopted to minimize the effect of subsidence after a detailed scientific study during depillaring operation.
13. No OB will be generated from the said mines, as it is an underground mining project. The waste generated during installation of shafts, will be used for construction purpose.
14. Total geological reserve reported in the mine lease area is 90.1277 MT with 72.416 MT mineable reserve. Out of total mineable reserve of 72.416 MT, 37.155 MT are available for extraction. Percent of extraction is 45.8050%.
15. There are 10 nos of workable seams with thickness ranging from 0.07 m to 7.66 m are workable. Grade of coal is G8, stripping ratio 0 while gradient is 2.2° to 3.4°. Life of mine is 50 years.
16. 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 NIT Raipur, the estimated cumulative maximum surface subsidence (Smax) of 784 mm after depillaring of all three seams is expected to cause only minor surface manifestations, such as fine cracks and localized depressions, rather than extensive ground deformation, as the workings fall within the sub-critical category. Moreover, since the overlying area comprises forest land, the overall environmental impact is expected to be negligible, given that the maximum tensile strain (Emax-) remains below 5 mm/m. Committee opined that the PP shall carryout mining operations cautiously below the waterbodies with continuous filling of cracks around, if appears on the surface.
17. Committee deliberated on the method of evacuation of coal proposed for the said project and observed that Coal from the face will be transported by Shuttle Cars (SC) to a feeder breaker, which will then transfer the crushed coal onto a district gate belt. From there, the coal will be transported to the surface at coal handling plant bunker through a series of trunk belts from underground working. Then the coal from coal bunkers at CHP to railway siding adjacent to the ML area will be transferred by covered conveyor belts. PP submitted that railway siding within the ML area will be constructed near CHP, joining it with the railway siding adjacent to the ML area.

However, till the completion of railway siding, the coal 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.

18. The baseline data for the said project has been carried out during March – May 2024. 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.
19. The water requirement for the said project is observed to be 773 KLD (81 KLD domestic BW + 692 KLD Mine Seepage). CGWA NOC application will be applied for 773 KLD before starting of mine dewatering. Pumped- out seepage water from the

underground mine sump will be used to meet the water requirement for the mine operation purposes (workshop, dust suppression, greenbelt development and firefighting, etc.) and the surplus water will be treated and then supply to the nearby villages for agriculture. Committee observed that, there is no river/ nallah diversion proposed in the instant project.

20. Committee further sought a pond rejuvenation plan from the PP. PP submitted the details of 8 nos of ponds located in core zone and the nearby buffer zone. Ponds namely - Gitori Pond, Khatkitola pond, Ghunghuti, Chhulhatola Pond, Patnar khurd 1, Patnar Khurd 2, Patnar kalan and Githauri are proposed to be rejuvenated to increase the additional 50% water holding capacity and de-silting to increase the recharge of groundwater aquifers with budget of Rs 1.0 Crores. Committee opined that the same shall be done in a time-bound manner.
21. Further, PP also submitted that, 5 nos of borewells in Ghunghuti, 2 Nos. in Githauri and 2 nos. in Patnarkana, will be constructed and the existing water pipelines will be repaired as part of PH action plan.
22. Committee deliberated on the public hearing conducted for the said project. The same was conducted on 24.04.2025 at Government Primary School, Pandan Tola, Tehsil Pali, District Umaria, State Madhya Pradesh and the same was attended by approx. 99 nos of persons and 34 written submissions were received. The major issues in the public hearing were related to Health and medical facilities, Infrastructure Development in Ghunghuti, Githauri and Patnarkala Villages, Irrigation and Drinking water Facilities to the Farmers of Ghunghuti Ghithauri and Patnarkalan. The PH action plan has been submitted for a budget of Rs. 643 Lakhs to be spent in 3 years. Committee opined that the same shall be utilized in the time bound manner.
23. Committee deliberated on the EMP budget submitted by the PP and observed that, that the capital cost allotted is Rs. 3000 Lakhs and recurring cost allotted is Rs. 510 Lakh/ Annum. Committee opined that the same shall be used in a time bound manner.
24. The power requirement is 10 MW which will be sourced from GRID power. There is no diversion of Hi-Tension/ Transmission Line.
25. Committee deliberated on the plantation plan submitted by the PP and observed that, greenbelt is proposed to be developed in 6.0409 ha which is about 30.97% of the total infrastructure area of 19.5 Ha (coal handling plant area). A 10m wide greenbelt, consisting of at least 3 tiers around the coal handling shall 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 15105 saplings will be planted and nurtured in 6.0409 hectares in 3 years. Remaining, 13.4591 Ha will be developed with plantation, post closure of the mining operation. In addition to this plantation shall be carried out along roadside on transportation route from CHP to NH 43 (Length 75 Mtr) which will be completed with metalled road work completion. In addition plantation at Shafts 1 & 2 will be carried out in 0.04 ha with 100 nos of saplings. 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.
26. There are 2 no of villages within the mining lease area. However, no R&R is proposed as it is an underground mine.
27. 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.

28. 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.
29. The EAC deliberated on the reply submitted by the proponent with respect to its observations of the meeting held on September, 2025.

**Recommendations of the Committee:**

**38.11.18:** In view of the foregoing and after the detailed deliberations, 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:

**A. Specific Conditions:**

1. Project proponent shall submit the Stage – I Forest Clearance for diversion of forestland of 149.6878 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 obtain the environmental safeguards from the concerned State Pollution Control Board, Madhya Pradesh, within 30 days from the date of grant of EC in accordance with the para 4E of Ministry's OM dated 14.01.2025.
3. No water body shall be diverted for the instant proposal, as committed by the project proponent.
4. Project proponent shall fence the entire infrastructure area of the UG coal mining project to avoid the entry of any wildlife as committed.
5. As committed, the project proponent shall implement the pond rejuvenation plan for the 8 nos of ponds, namely - Gitori Pond, Khatkitola pond, Ghunghuti, Chhulhatola Pond, Patnar khurd 1, Patnar Khurd 2, Patnar kalan and Githauri.
6. 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 4 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.
7. Project proponent shall comply with all the recommendations of the Subsidence Study report prepared by NIT Raipur, for the said project. Also, PP shall carryout mining operations cautiously below the waterbodies with continuous filling of cracks around, if appears on the surface.
8. Coal is allowed to be transported by road only for the first 3 years from the date of commencement of mining 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.

9. 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.
10. Project proponent shall fully compensate for the damage to property, infrastructure, or community assets which may arise due to subsidence, as committed.
11. The budget proposed for PH is Rs. 643 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 3 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. PP shall strengthen the existing Primary Health Centre (PHC) & Community Health Centre (CHC) in the study area for better public health.
12. 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 3000 Lakhs and Rs 510 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.
13. 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.
14. 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 Evar Samvardhan), Adhiniyam, 1980, for 149.6878 Ha of forestland involved in the ML area.
- iv. The project proponent shall obtain prior approval / clearance from the National Board for Wildlife before commencement of the project activity at the site.
- v. The project proponent shall ensure that 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.
- 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.
- viii. 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 and subsequent amendments.
- ix. Permission of power supply to be taken from the concerned authority for meeting power demand of the project site.
- x. The annual peak production at any given time shall not exceed the limit as prescribed in the EC.
- xi. 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.
- xii. 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 proponent.

- 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 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.

### **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. 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 6.0409 ha area, i.e. 1.088% of the total ML area and 30.97% of the total disturbed area i.e. 19.5 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 15,105 saplings shall be planted in 6.0409 Ha, of not less than 4 feet height. Besides this, remaining 13.4591 Ha will be developed with plantation, post closure of the mining operation. In addition to this, plantation shall be carried out along roadside on transportation route from CHP to NH 43 (Length 75 Mtr) which will be completed with metalled road work completion. Besides, plantation at Shafts 1 & 2 will be carried out in 0.04 Ha with 100 nos of saplings. PP shall also focus on community plantation and shall distribute fruit bearing species to the villagers to plant and nurture the same.
- vi. Watershed plan with gap Planation in Forest area shall be made with the help of Forest department and should be implemented accordingly. 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 (Physical and Financial both) 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.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'.

## **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-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.

- 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. 38.12:**

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

**[Online Proposal No. IA/MP/CMIN/9077/2002; Consultant: CMPDIL - NABET/EIA/25-28/RA 0412 valid up to 08.04.2028]**

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

No. 1530(E) dated 06/04/2018, for existing project.

The proposal was initially considered in 40<sup>th</sup> meeting of EAC (Coal Mining Sector) held on 26.10.2018. Proposal was deferred for want of additional information.

As per the amendment to EIA Notification, 2006 on 20/04/2022, the proposed project activity is now listed at schedule no. 1(a) “mining of minerals” Under Category “B” of the schedule of the EIA Notification, 2006. However, as per the Ministry’s OM dated 27.09.2022, “*The proposals which have been considered/ appraised once by EAC either for ToR or EC, but final decision has not been taken, shall continue to be appraised at the Central level only, till final disposal for ToR/ EC, even after the amendments in the EIA Notification are issued from time to time regarding delegation of projects to SEIAAs*”. Proponent submitted the additional information on 07.03.2025 and 26.05.2025 on Parivesh 1.0 portal.

Since this proposal has been appraised earlier in the EAC meeting held on 26.10.2018 and 18.06.2025, the project is now again placed before the EAC for consideration on 21.01.2026-based on additional details sought by EAC meeting dated 18.06.2025.

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

**38.12.2: Previous Approvals in chronological orders:**

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

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

Year	EC sanctioned capacity(MTPA)	Actual production (MTPA)	Excess production beyond the EC sanctioned capacity
2007-08	0.48	0.001001	Nil
2008-09	0.48	0.099237	Nil
2009-10	0.48	0.2908	Nil
2010-11	0.48	0.38715	Nil
2011-12	0.48	0.41725	Nil
2012-13	0.48	0.479975	Nil
2013-14	0.48	0.470233	Nil
2014-15	0.48	0.47403	Nil
2015-16	0.48	0.453688	Nil
2016-17	0.48	0.4128	Nil
2017-18	0.48	0.350386	Nil
2018-19	0.48	0.33006	Nil
2019-20	0.48	0.217101	Nil
2020-21	0.48	0.33664	Nil
2021-22	0.48	0.30156	Nil
2022-23	0.48	0.282675	Nil
2023-24	0.48	0.264590	Nil
2024-25	0.48	0.227957	Nil
2025-26 (as on 31.12.2025)	0.48	0.1531	Nil

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

S. No.	EC Condition	Compliance status as submitted by PP	Remarks/ Recommendations of RO, MoEF&CC	ATR/ Status of compliance
Specific condition no. vi	A green belt of adequate width should be raised by planting the local species along the mine boundary, are stockpile if any, ventilation fan, roads and in selected open areas in consultation with local DFO/Agriculture Department. Density of tree should be at least 2000 plants/ha.	<b>Being complied,</b> A green belt has been developed along the mine boundary, stockpile, ventilation fan and road by planting native species of plants. Total of 8,500 nos. of plants have been planted along the mine boundary of the mine. More than 45,000 plants have been planted in patches along the coal transportation road from Damini UG Mine to Burhar Railway Siding by the Area management. Mine has also planted 14,000 plants in the subsidence zone of the mine during FY 23-24 with a density of 2500/ ha. More plantation in coming years will be done. Apart from these, a 14 ft, 750m wind breaking wall is already constructed along the boundary and coal stockpile to minimize air borne dust. Photographs of plantation along the road and mine premises and work order copy are submitted.	<b>Compliance is in progress.</b> Plantation/green belt has been carried out at the working places and boundary for the purpose of dust suppression. It is yet be figured the greenbelt/number of species afforested all along the boundary and the area of the plantation. It is recommended to continue the plantation with native species. The actual area for plantation yet to assessed and year wise plantation programme exclusively for Damini UG should be submitted. It is recommended to update the drawings with digitized maps, i.e., surface plans, greenbelt in mine boundary, connecting roads, ventilation area, etc.	The mine has developed a green belt by planting 8,500 Native species of plants in 3.4 ha area all along the Land acquired for Surface infrastructures through MP Rajya Van Vikas Nigam Limited. In addition to that 14000 nos. of plantation in 5.6 ha of depillared area have been done in Year 2023. The plantation work is being done in consultation with state forest department under MOU with plant density of 2500 plants per Ha and native plant species. The present plant density is more than 2000 plants per ha.
Specific condition no. viii	The project authority should implement suitable conservation measures to augment ground water resources in the area in	<b>Being complied,</b> A rooftop Rainwater harvesting system is constructed at the project office for recharging the ground water level. Apart from this the mine water is treated in series of mine	<b>Partly Complied</b> Consultation with Regional Director, Central Ground Water Board is not available for augmentation of groundwater resources in the area. However, NoC from CGWA is available	The Hydrogeological Report of the Damini UG Mine was prepared by CMPDIL, RI-V, Bilaspur and as per the recommendations in the report and instruction received

S. No.	EC Condition	Compliance status as submitted by PP	Remarks/ Recommendations of RO, MoEF&CC	ATR/ Status of compliance
	consultation with the Regional Director, Central Ground Water Board, Chhattisgarh Region.	sumps and settling tanks after that the mine water is further settled in earthen polishing pond which also acts as a ground water recharge body. Mine management also provides settled mine water to nearby village pond for agricultural and other use of villagers. The pond also helps in maintaining ground water level in the village. The same water is used by local villagers for agriculture purpose. (Photos of ground water augmentation measures submitted)	which is valid upto 28.08.2024. It is recommended that based on detailed hydrogeological study (Aug 2024), augmentation of ground water shall be carried out at identified locations considering factors of recharging area, hydraulic gradient, etc. Further, shaft sinking in identified rainwater harvesting pits for artificial recharge, recharging wells etc., should be carried out based on well hydraulics of the area with monitored data.	from the CGWA, the mine management is maintaining the Rainwater Harvesting structure constructed at the Damini UG Manager office with a rooftop area of 125 Sq mtr. Apart from this, the mine management is also supplying treated mine water to nearby Kandoha village pond for the use of local villagers for agriculture purpose. This also helps to maintain ground water level in village area. In addition to this, 02 more rainwater harvesting structure has been constructed in nearby Rajendra Nagar colony and mine with Shaft sinking method. The quarterly monitoring of GW is being carried out by network of wells, if water level goes down, suitable conservation measure are implemented. A proposal for construction of additional rainwater harvesting structures at different locations of the Area is also under process in consultation with Central Ground Water Authority through its public notice and instructions.
Specific condition no. xiii	The project proponent should effectively implement actions in the conservation plan in consultation with the concerned forest officials. Specific	<b>Being complied,</b>  There is no forest land falling the mine boundary, but in compliance of the condition stipulated in the EC letter a wildlife conservation plan has been prepared by TFRI,	<b>Partly Complied</b>  Integrated Wildlife Conservation Plan has been prepared and submitted to State Forest Department vide letter dated 07.07.2023 and submitted to Chief Wildlife Warden, MP vide letter dated	Integrated Wildlife Conservation Plan has been prepared and submitted to State Forest Department vide letter dated 07.07.2023 and submitted to Chief Wildlife Warden, MP vide letter dated

S. No.	EC Condition	Compliance status as submitted by PP	Remarks/ Recommendations of RO, MoEF&CC	ATR/ Status of compliance
	measures as proposed in the conservation plan for restoration and rehabilitation of sloth bear, python and monitor lizard should be taken. The effectiveness of the conservation measure shall be monitored with inputs obtained from forest department and report furnished to this ministry and its Regional Office.	Jabalpur. The report is submitted for approval of wildlife warden. (A Copy of wildlife conservation plan with cover letter is submitted).	conservation plan is yet to be initiated.	15.09.2023. The wildlife conservation plan till date is under scrutiny as communicated by DFO, South Shahdol Vide letter dated 09.11.2023. The approval of the wildlife conservation plan and demand note for implementation of the same is still awaited from state forest department. <b>Budget: 2.93 Crs</b>

#### 38.12.4: Environmental Site Settings:

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

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

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

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

S. No.	Proposal No/Single Window No.	Area (Ha)	Remarks
1.	Proposal No: <b>FP/MP/MIN/QRY/504139/2024</b> Single Window No: <b>SW/215054/2024</b>	9.621	FC Stage I obtained vide letter dated 31.12.2025

PP further submitted that no forestland is broken up and the project does not involve the 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/tiger corridor/elephant corridor etc. There is presences of Schedule – I species (namely: Monitor Lizard, Sloth Bear and Leopard, etc), and an integrated wildlife conservation plan has been prepared and submitted to Chief Wildlife Warden, Bhopal for approval.

**Other Sensitive Receptors:**

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

No diversion is proposed at Damini UG Mine

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

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

5. Life of mine is 15 years (as on 31.03.2024)

6. Details of Land use pattern:

a. Pre- mining land use:

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

b. Post – mining land use pattern:

S. No.	Type	Total Area (Ha)	Reclaimed Area (Ha)	Undisturbed area (Ha)
1	Mine take (UG working)	315.778	-	315.778*
2	Roads	8.222	-	8.222
3	Build up Area/Settlement	4	-	4
4	Surface Infrastructure (3.6 ha) + Safety Belt (3.4 ha) (plantation)	7	7	-
<b>Total</b>		<b>335</b>	<b>7</b>	<b>328</b>

\*UG mine having minimum surface disturbance, this land will be gainfully utilized for plantation, solar panel installation, agriculture, and other purposes. Existing plantation on 5.6 ha of undisturbed area, 3.4 ha of plantation as greenbelt in mine surface infrastructure area. 68 Ha of undisturbed land has been proposed for plantation.

7. Details of transportation:

- In-pit to surface:** Transportation of coal from underground to Bunkers (located on surface) is being done through series of conveyor belts.
- Surface to siding:** The transportation of coal from stock yard/bunker to Burhar Railway Siding by tarpaulin covered trucks/tippers (distance:13 km, Type of road: 02 Lane (Two way) of 07m wide Black topped road)
- Siding to loading:** Coal from Burhar Railway siding will be loaded into railway wagons by mechanical means (i.e. payloaders).
- Quantity being transported by Road and rail:** In FY 2024-25, coal dispatched from rail was 0.1019 MT and by road was 0.125 MT.

8. **Details of reclamation:** As it is an underground mine. Only 7 Ha on which infrastructure and greenbelt will be developed will be reclaimed. Including this, plantation will be done in total of 77 Ha area (22.98% of total ML area). Density of plantation shall be 2500 trees per Ha.

### 38.12.6: Baseline data:

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

Period	Oct 2022 to Dec 2022
	<p>PM<sub>2.5</sub> = 31 to 57 <math>\mu\text{g}/\text{m}^3</math>  PM<sub>10</sub> = 48 to 83 <math>\text{Mg}/\text{m}^3</math>  SO<sub>2</sub> = 12 to 32 <math>\mu\text{g}/\text{m}^3</math>  NO<sub>x</sub> = 23 to 38 <math>\mu\text{g}/\text{m}^3</math>  CO = NA</p>
Total GLC Level	<p><b><u>Cumulative:</u></b>  <b>Core zone:</b>  PM<sub>10</sub> = 186.74 <math>\mu\text{g}/\text{m}^3</math> (Level at core zone).  PM<sub>2.5</sub> = 63.31 <math>\mu\text{g}/\text{m}^3</math> (Level at core zone).  SO<sub>2</sub> = 28 <math>\mu\text{g}/\text{m}^3</math> (Level at core zone).  NO<sub>x</sub> = 36.02 <math>\mu\text{g}/\text{m}^3</math> (Level at core zone).  <b>Buffer Zone:</b>  PM<sub>10</sub> = 83.1 <math>\mu\text{g}/\text{m}^3</math> (Level at 4.5 km in SW direction).  PM<sub>2.5</sub> = 57.03 <math>\mu\text{g}/\text{m}^3</math> (Level at 4.5 km in SW direction).  SO<sub>2</sub> = 32 <math>\mu\text{g}/\text{m}^3</math> (Level at 4.5 km in SW direction).  NO<sub>x</sub> = 38.05 <math>\mu\text{g}/\text{m}^3</math> (Level at 4.5 km in SW direction).    <b><u>Incremental:</u></b>  <b>Core zone:</b>  PM<sub>10</sub> = 1.74 <math>\mu\text{g}/\text{m}^3</math> (Level at core zone).  PM<sub>2.5</sub> = 0.31 <math>\mu\text{g}/\text{m}^3</math> (Level at core zone).  SO<sub>2</sub> = 0 <math>\mu\text{g}/\text{m}^3</math> (Level at core zone).  NO<sub>x</sub> = 0 <math>\mu\text{g}/\text{m}^3</math> (Level at core zone).  <b>Buffer Zone:</b>  PM<sub>10</sub> = 0.1 <math>\mu\text{g}/\text{m}^3</math> (Level at 4.5 km in SW direction).  PM<sub>2.5</sub> = 0.03 <math>\mu\text{g}/\text{m}^3</math> (Level at 4.5 km in SW direction).  SO<sub>2</sub> = 0 <math>\mu\text{g}/\text{m}^3</math> (Level at 4.5 km in SW direction).  NO<sub>x</sub> = 0.05 <math>\mu\text{g}/\text{m}^3</math> (Level at 4.5 km in SW direction).</p>
Ground water quality at 4 Locations	pH: 6.12 to 7.82, Total Hardness: 206 to 468 mg/l, Total Dissolved Solids : 602 to 887 mg/l Chlorides: 11.5 to 153.72 mg/l, Fluoride: 0.25 to 0.92 mg/l. Calcium as CA: 48 to 112.1 mg/l Iron: 0.06 to 0.10 mg/l Copper: BDL Manganese: 0.06 to 0.09 mg/l Selenium: BDL Arsenic: BDL Lead: BDL Zinc: 0.04 to 0.12 mg/l Chromium: BDL
Surface water quality at 4 Locations	pH: 6.18 to 7.82; BOD: <2 to 4 mg/l. COD from 8 to 22 mg/l. Total Coliform: Nil Iron: 0.09 to 0.25 mg/l Copper: BDL Manganese: 0.06 to 0.09 mg/l Selenium: <0.02 mg/l Arsenic: BDL Lead: BDL Zinc: 0.02 to 0.12 mg/l Chromium: BDL
Noise levels Leq (Day and Night)	<p><b>Industrial Area:</b>  42.1 to 57.5 for the day time and 39.2.6 to 53.3 for the Night time.  <b>Residential Area:</b>  42.6 to 58.6 for the day time and 29.1 to 51.4 for the Night time.</p>
Traffic	Traffic study has been conducted at coal transportation road of Damini UG Mine which

Period	Oct 2022 to Dec 2022														
assessment study findings	is near to the mine site. 100% coal of the Damini UG Mine is being transported through this road only. Existing PCU is 76.97 PCU/hr on the Damni UG Mine coal transportation road and existing level of service (LOS) is:														
	<b>Parameter</b>	Road	V (volume in PCU/hr)	C (Capacity in PCU/hr)	Existing V/C Ratio	LoS									
	<b>Existing*</b>	02 Lane (Two-Way) of 07 m Width	76.97	1200	<b>0.064</b>	A (Represents a condition of free flow)									
PCU load after proposed project will be 76.97 PCU/hr (Existing) + Nil (Additional) PCU/hr and level of service (LOS) will be :															
	<b>Parameter</b>	Road	V (volume in PCU/hr)	C (Capacity in PCU/hr)	Existing V/C Ratio	LoS									
	<b>Existing*</b>	02 Lane (Two-Way) of 07 m Width	76.97	1200	<b>0.064</b>	A (Represents a condition of free flow)									
<p>*-calculation based on field observation (considering worst case scenario).  This is a case of EC revalidation without any expansion in the capacity therefore no additional PCU load will be there on the coal transportation road.</p> <p>Note: Capacity as per IRC-106-1990 Guide line for capacity for roads.  Conclusion: The level of service will 'A'. It means it represents a condition of free flow.  The current coal production is 600-800 te/day.</p>															
Flora and fauna	There are Schedule – I species present in the study area (namely: Monitor Lizard, Sloth Bear and Leopard, etc), an integrated Wildlife Conservation Plan has been prepared by TFRI, Jabalpur. The final plan has also been submitted to the Chief wildlife warden, Bhopal for approval.														
Water Requirement	<p><b>Sources of water</b></p> <p>a) Surface water – Nil  b) Ground Water – 57 KLD (for potable use in mine through borewell)  c) Other (Mine Seepage Water) – 5632 KLD (for dewatering purpose)</p> <p>NOC (Ground Water): Existing CGWA NOC for ground water extraction has been obtained vide no. CGWA/NOC/MIN/REN/1/2025/11572 dtd 05.05.2025 valid till 24.08.2026.</p> <p>The excess mine water pumped out of the mine is released in sarfa nallah after treatment for irrigation purpose of local villagers and for domestic use for Shahdol Town residents.</p> <p>Ground Water Intersection:  Pre-monsoon – 2 m to 13 m  Post-monsoon – 1.0 m to 8.2 m</p> <p><b>Water Requirement:</b></p> <table border="1"> <thead> <tr> <th>S.N.</th> <th>Purpose</th> <th>Demand (M<sup>3</sup>/day)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td><b>Industrial Use</b></td> <td><b>260</b></td> </tr> <tr> <td>1.1</td> <td>Dust Suppression at Stock Yard and transportation route</td> <td>200</td> </tr> </tbody> </table>						S.N.	Purpose	Demand (M <sup>3</sup> /day)	1.	<b>Industrial Use</b>	<b>260</b>	1.1	Dust Suppression at Stock Yard and transportation route	200
S.N.	Purpose	Demand (M <sup>3</sup> /day)													
1.	<b>Industrial Use</b>	<b>260</b>													
1.1	Dust Suppression at Stock Yard and transportation route	200													

Period	Oct 2022 to Dec 2022			
	1.2	Fire Prevention at stock yard	10	
	1.3	Greenbelt Development	50	
	2.	Domestic/Portable water	57	
	Total		317	

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

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

#### 38.12.9: Solid and Hazardous Waste:

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

#### 38.12.10: Details of Public Consultation:

Title	Old public hearing	Public Notice for revalidation
Details of advertisement given	Advertisement given in Dainik Samay and Nav Bharat on 12.09.2001	Advertisement given in Pradesha today, Bhopal on 09.07.2022 (Hindi), Pradesha today, Jabalpur on 09.07.2022 (Hindi), and Samay, Shahdol on 09.07.2022 (Hindi) through RO, MPPCB, Shahdol
Date of public consultation	12.10.2001	08.08.2022
Venue	PWD Rest House, Budhar Dist- Shahdol (MP)	NA
Presiding Officer	SDM, Sohagpur Area, Shahdol, RO, MPPCB, Rewa	NA
Number of Person Attended Hearing	67	NA
Number of representations received in writing from the district and outside of district, please give	NIL (No written representation received in writing. All the issues were raised in the public hearing at	No representation received (as confirmed by RO MPPCB Shahdol vide letter

Title			Old public hearing										Public Notice for revalidation		
details:			site.)										no. 5038 dated 16.02.2024)		
Major issues raised			Issues raised for supply of drinking water, Air & water pollution, health, employments, blasting and plantation in around the mine area.										NIL		

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

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

S. No .	Physical activity and action plan	Year of implementation (Budget in Lakh)														Total Expenditure (in Rs Lakhs)
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1.	Infrastructure creation for drinking water Supply	4	4	4	4	4	4	4	4	4	4	4	4	4	4	60
2.	Sanitation	2	2	2	1	1	1	1	0	0	0	0	0	0	0	10
3.	Education and skill development	3	3	3	1	1	1	1	1	1	1	1	1	1	0	20
4.	Encouraging sports in village	2	1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	5
5.	Basic Health Infrastructure	1	1	1	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	10
6.	Road Infrastructure	10	10	3	3	3	3	3	3	3	3	2	2	2	0	50
7.	Lighting arrangement	2	2	2	2	2	2	2	2	2	2	2	2	2	2	30
8.	Electricity	1	1	1	1	1	1	1	1	1	1	0	0	0	0	10
<b>Total</b>																<b>195</b>

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

S. No.	Description of Item	Existing (In Lakh)		Already incurred (In Lakh)		Proposed (Additional)	
		Capital (In Lakh)	Recurring (In Lakh/year)	Capital (In Lakh)	Recurring (In Lakh/year)	Capital (In Lakh)	Recurring (In Lakh/year)
(i)	Air Pollution Control/ Noise Management	195.74	6.41	69	22	25	15

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

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

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

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

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

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

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

- This is to undertake with respect to Damini Underground Coal Project that there is no construction/ mining done at the site or the construction/mining done at the site or the construction done without any deviation as per the EC obtained (vide J-11015/47/02-IA-II(M) Date 05.10.2004).
- This is to undertake with respect to the Damini Underground Coal Project that there is no litigation pending on the project at NGT or any other court of law.

- Total 12 no. of court cases are pending related to employment and land acquisition and land compensation.
- This is to undertake with respect to Damini Underground Coal Project that the land has been acquired as per the provision of Coal Bearing Areas (Acquisition and Development) Act 1957 vide Gazette notification S. O. no. 2219 dated 18.06.2002 and S.O. no. 1921 dated 27.07.2004 for Mining Rights and Vide Gazette notification S.O. No. 3241 dated 19.10.2012 for Surface Rights.
- This is to undertake with respect to Damini Underground Coal Project that there is no difference in the documents submitted i.e., Form 1, Mining Plan, EIA/EMP report and presentation being made to the EAC.
- This is to undertake with respect to Damini Underground coal project that the project is being submitted for granted of revalidation of EC under the provisions of MoEF&CC S.O. 1530E dated 06.04.2018.
- This is to undertake that the project proponent owns the contents (information and data) of the EIA report pertaining to Damini Underground Coal project. Also, it is declared that the contents of EIA report pertaining to Damini Underground Coal project have not been copied from other EIA – EMP reports

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

S. No.	Desired as per MoM of 40 <sup>th</sup> EAC dated 26/10/2018	Compliance
	Preparation of EIA/EMP report based on one season baseline data along with the details in respect of the following:-	The EIA/EMP report has been prepared based on generic structure specified in Appendix III of EIA notification 2006 and complying Standard TOR for UG mine. The baseline data was collected during October to December 2022 (Post- Monsoon period). The EIA/EMP report has been prepared including all the necessary inputs as sought by EAC/MoEF.
	Public Consultation, including public hearing, shall be conducted through concerned SPCB as per the provisions/ procedure contained in the EIA Notification, 2006 for information of the stakeholders about the present coal mining operations inviting comments and their redressal.	To streamline revalidation cases, MOEF has issued an OM dated 16.02.2021, suggesting PP shall invite the suggestions/ objections as wider part of public consultation instead of Public Hearing as per EIA 2006. An undertaking has been submitted by Project Proponent for complying point no. (3) of the OM no. F-No. 22-4/2020-IA.III dated 16.02.2021. The public notice seeking suggestions/objections was published on 09.07.2022 in the in National edition -Pradesh Today Newspaper, Local edition-Pradesh Today newspaper, and Samay Newspaper. No written comments/ suggestions/ objections were received as communicated by CECB/SPCB vide letter no: 5038 dated 16.02.2024.
	Valid Mining Plan and the Progressive Mine Closure Plan duly approved by the competent Authority.	The mining plan of the Damini UG Mine for the production capacity of 0.48 MTPA along with the mine closure plan was approved by the CoFD of SECL in its 244 <sup>th</sup> meeting held on 06.09.2024. A copy of the approved mining plan along with Mine closure plan is submitted.
	Compliance status of the conditions stipulated in the environmental clearance from the	The site inspection for monitoring of EC conditions (0.48 MTPA) was carried out by the

S. No.	Desired as per MoM of 40 <sup>th</sup> EAC dated 26/10/2018	Compliance				
	concerned Regional Office of the Ministry.	Regional Office, MoEF&CC, IRO, Bhopal on 26.11.2024 and issued Certified Compliance report vide letter no: 3- 10/2004 (Env) dated 03.01.2025. A copy of the CCR is submitted.				
	Consent to operate from the State Pollution Control Board for the present mining operations.	Damini UG Mine has obtained Consent to Operate for present mining operations from the MP Pollution Control Board vide consent no. AW-61117, which is valid up to 31.12.2025. A copy of the CTO- renewal letter is submitted.				
	Redressal of issues raised during the last public hearing conducted by the SPCB.	PH was conducted on 12.10.2001 for Damini UG 0.48 MTPA. A copy of the pointwise compliance status of the issues raised during the public hearing is submitted.				
	Coal production realized from the mine from 1993-94 vis-à-vis capacity stipulated in the environment clearance.	Coal production realized from the mine from year of commencement 2007-08 vis-à-vis capacity stipulated in the environment clearance submitted.				
	Need assessment survey for the activities proposed under the CSR and the comprehensive plan to be prepared accordingly for implementation by the project proponent. Also, impact of the CSR activities undertaken at an interval of 5 years to be evaluated and a report to be submitted.	The need-based assessment survey has been conducted for the villages falling in the core zone, i.e. Khandoa, Khairaha, Damini, and Kudritola Village. The report with budgetary provision is submitted. SECL has also conducted impact of CSR Activities undertaken as per CSR policy, copy of the report is submitted.				
	Stage-I/Renewal of forest clearance under the Forest (Conservation) Act, 1980, as the case may be, of the forest land involved in the project.	As per the existing EC issued on dated 05.10.2004, there was no forest land under the EC boundary of 335.00 Ha. However, in 2012, during land notification for obtaining Surface Rights under the CBA Act, some plots/Khasra records were found to be converted into Revenue Forest land.				
	<b>Status of Forest clearance</b>					
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">Total Forest land existing in EC boundary as per latest land records</th> <th style="text-align: left; padding: 2px;">Status</th> </tr> </thead> <tbody> <tr> <td style="text-align: left; padding: 2px;">9.621 Ha. Of Revenue Forest</td> <td style="text-align: left; padding: 2px;">Applied vide proposal no. FP/MP/MIN/QRY/504139/2024. Accepted in PSC on dated 24.12.2024, The proposal has been accepted by PSC-I subsequently recommended by DFO and forwarded to MS for PSC-II</td> </tr> </tbody> </table>	Total Forest land existing in EC boundary as per latest land records	Status	9.621 Ha. Of Revenue Forest	Applied vide proposal no. FP/MP/MIN/QRY/504139/2024. Accepted in PSC on dated 24.12.2024, The proposal has been accepted by PSC-I subsequently recommended by DFO and forwarded to MS for PSC-II	
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	Details of court cases and the compliance status.	There are no court cases pending against Damini Underground Mine of SECL, Sohagpur Area under any act or rule related to Environment under any court of law or Hon'ble NGT. Total 12 no. of court cases are pending related to employment, land acquisition and land compensation against Damini UG Mine. Undertaking in this regard is submitted.				

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

S. No.	Desired Information	Compliance			
		Land Use	Type of land	As Per existing EC (EMP & EIA) (in Ha)	Land Required for obtaining EC (in Ha)
1.	The approved mine plan submitted is for 4.73 Sq km of block area, i.e., 473 Ha. However, the EC was granted for 335 Ha only. The application for revalidation is also submitted for 335 Ha area only. PP is required to submitted the updated mine plan in line with the EC granted and the area should be mentioned in hectare only.				
2.	As per the MoM of 40th EAC Meeting, the project involves forest land of 9.621 ha, on which Stage – I forest clearance is yet to be accorded. The said forestland was not included while granting the EC dated 05.10.2004. PP is required to submit the status of this forest clearance as on date and whether the underground mining has been already done in the said forestland or not. PP is also required to submit the notification through which it came to know about the existence of forestland involved in the project area. PP may also clarify as to why the application for forest clearance and amendment in EC was not submitted to the ministry when the forestland was recognized in the project area of 335 Ha.				

S. No.	Desired Information	Compliance																					
		<p>in the subject project and No illegal activity has been carried out by the user agency on the forest land.”</p> <p>Information about the reclassification of tenancy land into govt. land/forest land was submitted along with EC revalidation application to the ministry on dated 06.09.2018 and however no EC amendment request has been submitted to the ministry.</p>																					
3.	Kindly submit the status of Schedule – I species observed in the study area and Wildlife Conservation Plan for the said project.	<p>A comprehensive Wildlife Conservation Plan has been prepared by TFRI, Jabalpur for Damini, Rajendra &amp; Khairaha UG Mines, covering the core and 10 km buffer zone. The following Schedule-I species were identified based on field survey and secondary records:</p> <ul style="list-style-type: none"> <li>○ Sloth Bear (<i>Melursus ursinus</i>) – indirect evidence (scats, droppings)</li> <li>○ Monitor Lizard (<i>Varanus bengalensis</i>) – direct sighting</li> <li>○ Leopard (<i>Panthera pardus fusca</i>) – reported from adjoining forest (Amraha RF)</li> </ul> <p>Species-specific habitat improvement and monitoring prescriptions have been included in the plan. The Wildlife Conservation Plan with budgetary provision of Rs. 293 Lakhs has been submitted to the Chief Wildlife Warden, Madhya Pradesh, vide letter no. 288 dated 22.09.2023, and is currently under review with the Divisional Forest Officer (DFO), South Shahdol Division.</p>																					
4.	Kindly submit the details of water requirement for the said project and the latest status of the CGWA application renewal.	<p>The water requirement of the Damini Underground (UG) Mine of SECL Sohagpur Area is as follows:</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Purpose</th> <th>Demand (M<sup>3</sup>/day)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><b>Industrial Use</b></td> <td><b>260</b></td> </tr> <tr> <td>1.1</td> <td>Dust suppression at stock yard and transport route</td> <td>200</td> </tr> <tr> <td>1.2</td> <td>Fire prevention at stock yard</td> <td>10</td> </tr> <tr> <td>1.3</td> <td>Greenbelt development</td> <td>50</td> </tr> <tr> <td>2</td> <td>Domestic/ Portable Water</td> <td>57</td> </tr> <tr> <td><b>Total</b></td> <td></td> <td><b>317</b></td> </tr> </tbody> </table> <p>The mine has been granted with No Objection Certificate (NOC) from the Central Ground Water Authority (CGWA) for the extraction of mine water, specifically for dewatering purposes, vide NOC Number: CGWA/NOC/MIN/REN/1/2025/11572 which is valid till: 24.08.2026.</p>	S. No.	Purpose	Demand (M <sup>3</sup> /day)	1	<b>Industrial Use</b>	<b>260</b>	1.1	Dust suppression at stock yard and transport route	200	1.2	Fire prevention at stock yard	10	1.3	Greenbelt development	50	2	Domestic/ Portable Water	57	<b>Total</b>		<b>317</b>
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5.	It is observed that in the certified compliance report obtained vide letter dated 03.01.2025, the status of mostly conditions is either “being complied” or “compliance under progress”. Kindly submit the Action Taken Report to the concerned RO, MoEF&CC for the CCR and obtain the closure report on such ATR. The same shall be submitted to the Ministry.	<p>The Action Taken Report (ATR) in response to the Certified Compliance Report (CCR) issued by the IRO, Bhopal, vide letter dated 03.01.2025, has been submitted to the Regional Office of the Ministry at Bhopal on two occasions, vide letter no. 6851 dated 28.01.2025 and vide letter no.302 dated 14.05.2025, with a request to issue a closure report. The closure report from the concerned Regional Office is currently awaited. As per the Certified Compliance Report, out of 15 specific conditions, 2 conditions are reported as "partly complied", 1 condition as "to be complied", and 2 conditions as "compliance under progress". All remaining 10 specific conditions, along with all 16 general conditions of the EC, have been reported as complied with.</p>																					
6.	Kindly submit the same method of transportation being followed for the said mine from in-pit to surface, surface to siding, siding to loading and then to the final consumer. In case, road transportation is being	<p>A comprehensive transportation assessment study and its Environment Management plan has been prepared for the Damini UG Coal Mine including all the desired details.</p>																					

S. No.	Desired Information	Compliance
	<p>done, then PP shall submit a transportation assessment study report for the said mine, which shall include:</p> <p>a) Details of existing road transportation route (this shall include the type of road, length of the road, nearest habitation on the road).</p> <p>b) Detailed traffic study report of the road route through which transportation of coal is being done.</p> <p>c) It is requested to submit the AAQM details of the road through which transportation of coal is being done (of both day and night time) for.</p> <p>d) It is requested to submit the noise quality monitoring details of the road through which transportation of coal is being done (of both day and night time) for.</p> <p>e) Environmental Management Plan including monitoring program to address all concerns arising out of coal transportation by road.</p>	
7.	<p>Kindly submit the details of sensitive receptors on the coal transportation road, along with the mitigation measures being followed and further proposed to be followed.</p>	<p>Details of sensitive receptors are submitted.</p> <p>Mitigation Measures:</p> <ol style="list-style-type: none"> <li>1. Two mechanical road sweeping machine have been deployed by the SECL management for cleaning the dust from the coal transportation road.</li> <li>2. One truck mounted mist type fog forming machine is deployed exclusively for Damini UG mine for water sprinkling on the coal transportation road within the habitation zone.</li> <li>3. More than 90,000 plants have been planted in the last five year along the coal transportation road from Damini UG Mine to Burhar Railway Siding by the SECL management to suppress the air borne dust and noise pollution.</li> <li>4. Coal transportation from Mine to Siding and mine to consumers is being done through trucks/dumper covered with 400 GSM tarpaulin.</li> <li>5. Installation of speed limit warnings to avoid accidents, air and noise pollution.</li> <li>6. Two continuous ambient air quality monitoring stations are being installed along the transportation route and at Damini UG Mine to monitoring the air pollution level 24X7</li> </ol>
8.	<p>Kindly submit the drone video and the geo-tagged photographs of the coal transportation route.</p>	<p>Drone video footage and geo-tagged photographs covering the entire coal transportation route has been prepared.</p>
9.	<p>Presentation to be presented is requested to be submitted.</p>	<p>The presentation to be presented is submitted.</p>

S. No.	Desired Information	Compliance
10.	Public notice for public consultation was published on 09.07.2022 and communication in this regard was received from the SPCB vide letter dated 16.02.2024. Kindly clarify the reasons for timelines gap between the date of publication and receipt of letter from SPCB.	The public consultation notice for Damini UG Mine was published on 09.07.2022, after which the mine management requested to the regional officer several times to provide the queries/comments of locals received in the RO Office through verbal and telephonic and official communication vide letter dated 13.11.2023 and 25.01.2024. The official letter from the Regional Office was received on 16.02.2024.

**Reply of Additional Detail Sought (ADS) as per MoM of 27th EAC Dt 18/06/2025**

S. No.	Desired as per MoM of 27 <sup>th</sup> EAC Dt 18/06/2025	Compliance
(i)	<p>In view of the foregoing and after detailed deliberations, the committee deferred the instant proposal for grant of revalidation of EC and sought for Stage – I forest clearance for the 9.621 Ha of forestland involved in the ML area.</p> <p>The committee also recommended that Ministry shall seek views/ comments of Forest Conservation Division whether revalidation of EC in such cases can be accorded by the Ministry by delinking the forestland as requested by the project proponent.</p>	<p>Stage I FC for the 9.621 Ha of revenue forestland involved in ML was obtained vide letter no FFP/MP/MIN/QRY/504139/2024 dated 31/12/2025. Also the same has been submitted through PARIVESH portal on 02.01.2026.</p>

**Observation and deliberation of the EAC:**

**38.12.19: The Committee noted the following:**

- i. The instant proposal is for revalidation of EC accorded by M/s South Eastern Coalfields Ltd for Damini Underground Coal Mine vide letter no. J-11015/47/2002-IA-II(M) on 05.10.2004 for production capacity of 0.48 MTPA in the ML area of 335 Ha, under the EIA Notification, 1994. The revalidation of EC granted is under EIA Notification 2006 (as amended) as per the provision of S.O 1530(E) dated 06.04.2018 read with OM dated 16.02.2021.
- ii. PP applied for revalidation of EC in PARIVESH Portal on 06.09.2018, i.e., well within the window period of 6 months (i.e. before 05.10.2018) and also submitted Form-1 as required under S.O 1530(E) dated 06.04.2018 for the re-validation of EC under EIA Notification 2006 (as amended).
- iii. The project does not fall in the Critically Polluted Area (CPA)/ Severely Polluted Area (SPA), as per CEPI Assessment 2018.
- iv. CTO renewal has been obtained from MPPCB and is valid upto 31.12.2025.
- v. Committee observed that the coal block of 473 Ha was acquired by the PP under the CBA Act, 1957 vide S.O. 2219 dated 18.06.2002. The rights are vested with the coal producing company perpetually. However, the mining activity is restricted to 335 Ha only. Committee deliberated on the status of mining in the remaining 138 Ha of block area and observed that no mining activity has been carried out by the PP in the remaining 138 Ha of block area. Committee also observed that, the said land is coal bearing area and will be

used for future expansion. Committee opined that the remaining 138 Ha of block area shall be clearly demarcated and no mining related activity shall be carried out in the same till the time a fresh EC for the same is not obtained.

- vi. The project involves 9.261 Ha of forestland and Stage – I forest clearance has been obtained. Committee observed that, at the time of obtaining the said coal block vide letter dated 18.06.2002, there was no forestland within the proposed Environmental Clearance (EC) boundary of 335 Ha. Consequently, the EC was granted for 335 Ha with no forest land involved. During land notification for Surface Rights under the CBA Act (Gazette Notification S.O. 3241 dated 19.10.2012), certain plot/Khasra numbers within the EC boundary were classified as Revenue Forest land, totaling 9.261Ha across 09 small patches within the Damini UG Mine lease area. In Compliance of the same, the PP submitted an application for obtaining Stage – I forest clearance on the said 9.261 Ha of forestland.
- vii. Committee sought clarification regarding the status of mining activities carried out under 9.261 Ha of forest land. Committee observed that, as per the site – visit report of DFO, “no mining activity has been done within this 9.261Ha forest land. Further, no violation of Forest Conservation Act, 1980 was observed in the subject project and no illegal activity has been carried out by the user agency on the forest land.”
- viii. The project is not located within 10 KM of any ESZ/ ESA/ national park/ wildlife sanctuary/ biosphere reserve/ tiger reserve/ elephant reserve/tiger corridor/elephant corridor etc. There is presences of Schedule – I species (namely: Monitor Lizard, Sloth Bear and Leopard, etc), and a wildlife conservation plan has been prepared and submitted to Chief Wildlife Warden, Bhopal. Approval on the same is yet to be obtained.
- ix. Mining plan along with mine closure plan approved in the 244<sup>th</sup> Meeting of CoFD, SECL held on 06.09.2024 for the ML area of 335 Ha, for the production capacity of 0.48 MTPA.
- x. Method of Mining to be adopted shall be Underground mining, with bord and pillar method of mining.
- xi. Net geological reserve reported in the mine lease area is 27.769 MT with 12.35 MT mineable reserves. The percentage of extraction is 44.47%. Out of total mineable reserve of 12.35 MT, 6.553 MT coal is available for extraction as on 01.04.2025.
- xii. Life of mine is 15 years (as on 31.03.2024) and grade of coal is G-6 & G-7.
- xiii. Committee observed some discrepancy in the post – mining land use pattern. PP rectified the same and submitted.
- xiv. Committee deliberated on the method of transportation of coal and observed that, the entire coal is being evacuated by road. Since the production capacity of the said mine is less, not much load is there on the road, due to transportation of coal. However, Committee opined that PP shall take all precautionary measures to mitigate air pollution due to coal transportation. Adequate plantation shall be done on both the side on the roads through which coal is being transported. Committee opined that, 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.

xv. Committee deliberated on the baseline data submitted by the PP and observed that, all the parameters are within the prescribed limits. However, Committee opined that PP shall continue with the environment protection measures, and further focus on sustainable mining activities. PP shall introduce measures of solar lights, plantation drives, etc. Committee also observed that, there are 2 nos of CAAQMS installed in the said mines, one in the ML area and another in the colony of the mines.

xvi. Committee deliberated on the water requirement of the said project and observed that, the total water required for the said project is 317 KLD (260 KLD for industrial use + 57 KLD for potable use for office). The source of water is ground water and mine seepage water. NoC from CGWA has been obtained by the PP vide no. CGWA/NOC/MIN/REN/1/2025/11572 dated 05.05.2025 valid till 24.08.2026. The excess mine water after treatment in being released into Surpha Nallah for irrigation and use to Shahdol Town residents. Being an underground mine, there is no diversion of any waterbody previously done in the said project and none is proposed in future.

xvii. Committee observed that, advertisement for public consultation through written submissions was given in accordance to Ministry's OM dated 16.02.2021, in Pradesh Today, Bhopal on 09.07.2022 (Hindi), Pradesh Today, Jabalpur on 09.07.2022 (Hindi), and Samay, Shahdol on 09.07.2022 (Hindi) through RO, MPPCB, Shahdol. As per the MPPCB, Shahdol letter dated 16.02.2024, no written comments/ suggestions/ objections were received from the public.

xviii. Committee further deliberated on the action plan for next 15 years of old public hearing that took place on 12.10.2001 and observed that, the PP has allocated a budget of Rs. 195 Lakhs. Committee opined that, PP shall implement the same in a time bound manner and along with this, the PP shall also strengthen the primary health centres and community health centres in the study area.

xix. In pursuant to OM dated 16.02.2021, PP also submitted that there has been no change in mining namely mining method, mining plan, mineral transportation, water requirement, reclamation plan after obtaining EC for production capacity of 0.48 MTPA.

xx. Committee further observed that, existing capital cost of the project is Rs. 3932.32 Lakhs. As per the original EPP the proposed capital and revenue expenditure was Rs. 195.74 Lakhs and Rs. 6.41 Lakhs respectively, against which total capital expenditure is Rs. 185 Lakhs and revenue expenditure is Rs. 243.82 Lakhs has been spent in pollution control arrangement. The additional capital cost proposed for environmental measures is Rs. 562 lakhs and recurring cost is Rs. 32 Lakhs per year. Committee opined that the same shall be efficiently implemented in a time – bound manner.

xxi. Committee deliberated on the plantation activities already carried out by the PP in the ML area and observed that, existing greenbelt / plantation in the mine premises has been done in approx. 9.0 Ha area which is about 2.69 % of the total project area of 335 Ha with total sapling of 22500 Trees. Proposed area for plantation is about 68 Ha which is about 20.29% of the total mine lease area of 335 Ha. Thus, total of 77 Ha area (22.99% of total ML area) will be developed as plantation.

xxii. Committee opined that there is a lot of space available with the PP for plantation and there is good scope of plantation. Committee opined that PP shall focus on agro forestry, community plantation on the land purchased for surface rights.

xxiii. Committee observed that, Rs. 42.01 Crs as land compensation has already been given to the land users against 261.732 Ha land. Additionally, 140 PAPs have already been given jobs against land compensation and remaining 130 land losers will be given the employment in due course.

xxiv. Committee deliberated on the Certified Compliance Report and observed that, the status of compliance of earlier EC was obtained from Regional Office, Bhopal vide letter no. 3 -10/2004(Env) Dated: 03.01.2025 in the name of Damini Underground Coal Mine. The action taken report regarding the being complied / partially complied / non – complied conditions has been submitted to Regional Officer, MoEFCC, Bhopal on two occasions, vide letter no 6851 dated 28.01.2025 and letter no. 302 dated 14.05.2025. Committee opined that PP shall comply with the following partly complied conditions in a time bound manner:

S. No.	Condition	Proposed Compliance	Timeline
1.	Specific condition no. viii	Atleast 10 rainwater harvesting structures shall be constructed at different locations of the Area, with consultation with Central Ground Water Authority through its public notice and instructions.	By December 2026

xxv. There are no court cases related to environment pending against the instant project.

xxvi. Committee opined that the PP shall align its activities with the sustainable development goals.

xxvii. The EAC also deliberated on the ADS reply and written submissions of the project proponent and found it satisfactory.

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

**38.12.20:** In view of the foregoing and after detailed deliberations, the committee **recommended** the instant proposal for grant of revalidation of EC dated 05.10.2004 as per provisions of S.O. 1530(E) dated 06.04.2018 read with OM dated 16.02.2021. Grant of revalidation of EC is subject to the compliance of the following specific conditions and standard conditions in addition to the conditions granted in earlier EC:

#### **Specific Conditions:**

1. Project proponent shall restrict the mining activities only to 325.379 Ha of lease area. No mining activity shall be carried out in 9.621 Ha of forestland on which Stage – II forest clearance is yet to be accorded and another 138 Ha of block area which is not included in the mine lease area.
2. Project proponent shall get the Wildlife Conservation Plan approved by the PCCF (Wildlife). The final Wildlife conservation plan duly approved by the PCCF shall be submitted to RO, MoEF&CC within a time frame of three months from the date of grant of revalidation of EC and the budget approved by the concerned authority shall be deposited in government account.
3. PP shall monitor the subsidence and take necessary measures/ steps for filling the subsidence area as per subsidence plan.
4. The budget proposed for Public Hearing is Rs 195 Lakhs. The budget proposed shall be

kept in a separate account and shall be audited annually. Project proponent shall implement the action plan to address the issues raised during public hearing within a time frame of 15 years from the date of grant of revalidation of EC. PP shall submit the progress report regarding the implementation of the action plan to concerned RO along with the six monthly compliance report. Apart from this, PP shall strengthen the Primary Health Centres (PHC) and Community Health Centres (CHC) within the study area for improving facilities for enhancing quality of public health service. Compliance status in this regard shall be submitted along with the six monthly compliance to the concerned Regional Office of MoEF&CC.

5. Project proponent shall implement the protective measure proposed in Environment Management Plan (EMP) in a time-bound manner. The budget earmarked for the same is Rs. 562 Lakhs (Capital) and Rs. 32 Lakhs per annum (recurring) and should be kept in separate accounts and audited annually. The implementation status along with the amount spent with documentary proof shall be submitted to the concerned Regional Office for the activities carried out during the previous year.
6. Project proponent shall pay to farmers of agricultural land if there is any loss due to pollution found by the concerned District Commissioner as per extent rules or norms. Suitable measures for enrichment of nitrogen in the soil will be taken up for improving the soil fertility and effective steps will be taken to support the farming community in enhancing the production.
7. The excess mine water pumped out of the mine shall be released in sarfa nallah after treatment for irrigation purpose of local villagers and for domestic use for Shahdol Town residents, after consultation with the MPPCB.
8. Total plantation by the end of the mine life shall be done in atleast 77 Ha of ML area. Apart from this agro forestry and community plantation shall be carried out on the land purchased for surface rights. Dense plantation shall also be carried out on both the sides of coal transportation roads within 2 years from date of revalidation. Plantation shall be done with the native and fast-growing species.
9. Rehabilitation and resettlement shall be completed for the remaining 130 land losers shall be completed within 1 year from date of grant of revalidation of EC.
10. Project proponent shall comply with the following partly complied conditions of the EC dated 05.10.2024 in a time bound manner:

S. No.	Condition	Proposed Compliance	Timeline
1.	Specific condition no. viii	Atleast 10 rainwater harvesting structures shall be constructed at different locations of the Area, with consultation with Central Ground Water Authority through its public notice and instructions.	By December 2026

11. 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.
12. Project Proponent shall ensure that all types of plastic waste generated from the mines shall be stored separately in isolated areas and disposed of strictly adhering to the Plastic

Waste Management Rules 2016. In pursuant to the Ministry's OM dated 18/07/2022, PP shall also create awareness among the people working in the project area as well as in its surrounding area on the ban on Single Use Plastic (SUP) in order to ensure compliance of the Ministry's Notification published by the Ministry on 12/08/2021. A report along with the photographs of the measures taken shall also be included in the six monthly compliance reports being submitted by PP.

13. PP should establish an Environment Management Cell at its mines in order to make sure that all the compliances related to environment are being complied efficiently. PP should conduct the monthly review meeting with the environment management cell shall be carried out at mine level and quarterly at with environment management committee of the company. The record of the same shall be maintained.
14. The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project.
15. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
16. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation.
17. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/Regulations or Statutes, as applicable, to the project.
18. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
19. Validity of EC is as per the para 9 of EIA Notification 2006 read with its subsequent amendment dated 12th April 2022.
20. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
21. The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of Common Cause Vs Union of India & others.
22. The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology in strict compliance of the judgment of Hon'ble Supreme Court. This environmental clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements.
23. All other conditions stipulated in EC dated 05.10.2004 shall remain the same.

#### **General Instructions:**

- a. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC website where it is displayed.

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

**38.13: Additional Agenda with the permission of the Chair:** It was apprised to the EAC that the sub-committee of EAC has submitted the following site visit reports for consideration by the EAC:

S. No.	Name of the proposal and its number	Sub-committee composition	Details of site visit report
1.	Dipka Opencast Coal Mine Project (increase in ML area 1999.293 Ha to 1999.386 Ha and with increase in capacity from 37.5 MTPA to 40 MTPA), by M/s South Eastern Coalfields Ltd., located in Village:Dipka; Tehsil: Katghora; District: Korba; State: Chhattisgarh Proposal No. IA/CG/CMIN/540806/2025	1. Shri Inder Pal Singh Matharu (EAC Chairman) 2. Dr Umesh Jagannathrao Kahalekar (Member of EAC) 3. Shri Mahi Pal Singh (Member EAC) 4. Shri Sundar Ramanathan, Scientist 'F' (Representative of MoEFCC)	Site visit was conducted on 17 <sup>th</sup> December, 2025. Site visit report Submitted and enclosed as <b>Annexure III</b> .

The site visit report of the above projects has been duly circulated to all the members of EAC. The EAC deliberated on the same and accepted the site visit report. Further, it was advised that the said site visit report shall be sent to the concerned project proponent for records and for ensuring compliance to the recommendations of the site visit report.

The meeting ended with vote of thanks to the Chair.

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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 rivers/streams/nullahs/canals, locations of human habitations, major constructions including railways, roads, pipelines, major industries/mines and other polluting sources. In case of ecologically sensitive areas such as Biosphere Reserves/National Parks/WL Sanctuaries/ Elephant Reserves, forests (Reserved/Protected), migratory corridors of fauna, and areas where endangered fauna and plants of medicinal and economic importance found in the 15 km study area should be given.
- (v) Land use map (1: 50,000 scale) based on a recent satellite imagery of the study area mayalso be provided with explanatory note on the land use.
- (vi) Map showing the core zone delineating the agricultural land (irrigated and un-irrigated, uncultivable land as defined in the revenue records, forest areas (as per records), along with other physical features such as water bodies, etc should be furnished.
- (vii) A contour map showing the area drainage of the core zone and 25 km of the study area (where the water courses of the core zone ultimately join the major rivers/streams outside the lease/project area) should also be clearly indicated in the separate map.
- (viii) A detailed Site plan of the mine showing the proposed break-up of the land for mining operations such as the quarry area, OB dumps, green belt, safety zone, buildings, infrastructure, CHP, ETP, Stockyard, township/colony (within and adjacent to the ML), undisturbed area -if any, and landscape features such as existing roads, drains/natural water bodies to be left undisturbed along with any natural drainage adjoining the lease /project areas, and modification of thereof in terms of construction of embankments/bunds, proposed diversion/re-channeling of the water courses, etc., approach roads, major haul roads, etc should be indicated.
- (ix) In case of any proposed diversion of nallah/canal/river, the proposed route of diversion/modification of drainage and their realignment, construction of embankment etc. should also be shown on the map as per the approval of Irrigation and flood control Department of the concerned state.
- (x) Similarly, if the project involves diversion of any road/railway line passing through the ML/project area, the proposed route of diversion and its realignment should be shown in the map along with the status of the approval of the competent authority.
- (xi) Break up of lease/project area as per different land uses and their stage of acquisition should be provided.

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

Sl. No.	Land use	Within ML area (ha)	Outside ML area (ha)	Total
1.	Agricultural land			
2.	Forestland			
3.	Wasteland			
4.	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 28o 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					
	TOTAL					

- (xxxii) Flow chart of water balance should be provided. Treatment of effluents from workshop, township, domestic waste water, mine water discharge, etc. should be provided. Details of STP in colony and ETP in mine should be given. Recycling of water to the maximum possible extent should be done.
- (xxxiii) Occupational health issues. Baseline data on the health of the population in the impact zone and measures for occupational health and safety of the personnel and manpower in the mine should be given.
- (xxxiv) Risk Assessment and Disaster Preparedness and Management Plan should be provided.
- (xxxv) Integration of the Env. Management Plan with measures for minimizing use of natural resources-water, land, energy, etc. should be carried out.
- (xxxvi) Cost of EMP (capital and recurring) should be included in the project cost and for progressive and final mine closure plan.
- (xxxvii) Details of R&R. Detailed project specific R&R Plan with data on the existing socio-economic status of the population (including tribals, SC/ ST, BPL families) found in the study area and broad plan for resettlement of the displaced population, site for the resettlement colony, alternate livelihood concerns/ employment for the displaced people, civic and housing amenities being offered, etc and costs along with the schedule of the implementation of the R&R Plan should be given.
- (xxxviii) CSR Plan along with details of villages and specific budgetary provisions (capital and recurring) for specific activities over the life of the project should be given.
- (xxxix) Corporate Environment Responsibility:
  - 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.
- (xl) Inbuilt mechanism of self-monitoring of compliance of environmental regulations should be indicated.
- (xli) Status of any litigations/court cases filed/ pending on the project should be provided.

(xlvi) 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.

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

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

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

**Annexure – II**

**LIST OF PARTICIPANTS OF EAC (COAL) IN 38<sup>TH</sup> MEETING HELD ON 20-21<sup>ST</sup> JANUARY 2026, THROUGH PHYSICAL MODE**

S. No.	Name & Address	Role	20.01.2026	21.01.2026
1.	Shri Inder Pal Singh Matharu, IFS (Retd.)	Chairman	Present	Present
2.	Shri Lalit Kapur	Member	Present	Present
3.	Dr. Umesh Jagannathrao Kahalekar	Member	Present	Present
4.	Dr. Santosh Kumar Hampannavar	Member	Absent	Absent
5.	Shri Savalge Chandrasekhar	Member	Present	Present
6.	Shri K. B. Biswas	Member	Present	Present
7.	Prof. Shyam Shanker Singh	Member	Present	Present
8.	Dr. Vinod Agrawal	Member	Present	Present
9.	Shri Prasoon Gargava, Scientist - F	Representative of Central Pollution Control Board	Absent	Absent
10.	Shri Mahi Pal Singh, Chief Engineer	Representative of Central Electricity Authority (CEA)	Present	Present
11.	Shri Harmeet Sahaney	Representative of Indian Meteorological Department (IMD)	Absent	Absent
12.	Prof. R M Bhattacharjee	Representative of IIT/ISM Dhanbad	Present	Present
13.	Shri Sundar Ramanathan	Scientist 'F' & Member Secretary	Present	Present
MoEF&CC				
1.	Dr. Rajesh Prasad Rastogi	Scientist 'D'	Present	Present

**Annexure – III**

**Site Visit report in respect of the Proposal No. IA/CG/CMIN/540806/2025 - Dipka Opencast Coal Mine Project (increase in ML area 1999.293 Ha to 1999.386 Ha and with increase in capacity from 37.5 MTPA to 40 MTPA), by M/s South Eastern Coalfields Ltd., located in Village:Dipka; Tehsil: Katghora; District: Korba; State: Chhattisgarh- Prescribing Terms of Reference**

The proposal of Dipka Opencast Coal Mining Project was taken up as Agenda Item No. 31.5 in the 31<sup>st</sup> EAC Meeting of Coal Mining Sector held on 28<sup>th</sup> August, 2025. During consideration of the proposal, it was observed by the EAC that as per the regularization EC accorded vide letter dated 20.05.2025, it was stipulated to comply with the partially complied conditions of the previously granted ECs in a time-bound manner. As per the reply submitted by the PP in the EDS reply dated 15.08.2025, it is observed that all the conditions are proposed to be complied by September 2025. Accordingly the Committee opined that a site – visit to ensure the compliance of the same shall be conducted. The EAC opined that the EC for the said expansion will be considered only after achieving the compliance to the conditions prescribed in the existing EC, followed by obtaining of fresh certified compliance report from the RO of MoEF&CC. Based on deliberations held in the said meeting, it was recommended that a site visit shall be conducted for the said expansion project and recommendations of sub-committee site visit report shall be complied with before the application for EC is submitted.

As per Ministry of Environment, Forest & Climate Change Order No. J-13012/11/2018-IA.I (T) dt. 15/12/2025, a Sub-Committee of following members visited the Dipka Opencast coal mine project site on 17<sup>th</sup> December 2025. Committee members are-

1. Shri Inder Pal Singh Matharu (EAC Chairman)
2. Dr Umesh Jagannathrao Kahalekar (Member of EAC)
3. Shri Mahi Pal Singh (Member EAC)
4. Shri Sundar Ramanathan, Scientist 'F' (Representative of MoEFCC)

During the visit, the committee members visited the mining site, TRS, RLS, CAAQMS, OB dumping site, Tree plantation site etc. Following observations are made.

The Dipka Opencast Coal Mine Project of M/s South Eastern Coalfields Ltd is a brownfield project, located at Dipka Village, Katghora Tehsil, Korba District, Chhattisgarh State and is proposed for increase in ML area from 1999.293 Ha to 1999.386 Ha with increase in production capacity from 37.50 MTPA to 40.00 MTPA. Earlier the TOR was issued by MOEF&CC on 08.06.2020 which was valid up to 07.06.2024 as per the Gazette Notification S.O.751 (E) dated 17.02.2020 and further extended to 07.06.2025 as per the Gazette Notification. S.O. 221 (E) dated 18.01.2021. However, the earlier given ToR is lapsed. As the PH for the above-mentioned project was held on 09.06.2023, the same is valid till 08.06.2026. Similarly, the baseline data submitted by the PP is collected during October – December 2022 and the same is valid till December 2025. Now, the application has been submitted by the PP to obtain a fresh ToR for Dipka Opencast Coal Mine Project (increase in ML area from 1999.293 Ha to 1999.386 ha with increase in production capacity from 37.5 MTPA to 40 MTPA), with exemption of public hearing as PH has already been conducted on 09.06.2023 for the project area of 1999.386 Ha.

In last three years the actual production was: 32.14MT, 33.41 MT and 33.53 MT in the years 2022-23, 2023-24 and 2024-25 respectively. The balance life of mine as on 1/4/2025 is of two years.

  
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3 Nos. of CAAQMS are installed in respect of Dipka OCP, the data of which are displayed in digital display board. All three are connected to CPCB server. PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub> and NO<sub>x</sub> are measured fortnightly in the core zone (04 stations) and the buffer zone (04 stations). The frequency of samples collection is twice in a week. As the collected baseline data is for October to December 2022, PP is directed to submit the data of these 8 stations and that of CAAQMS for last six months to ascertain the quality of ambient air in the core zone as well as in buffer zone. In buffer zone additional measures for improving the ambient air quality shall be taken.

PP has reported that about 1184337 trees are planted in the OB dump area of 331.92 Ha till 2024-25 and 1245972 trees are planted in 200.78 Ha non-OB dump area. Additional plantation is also carried out outside the ML area.

16 nos of Electric Trucks (Capacity 23 Cum) and 03 nos of Electric Payloaders (Capacity 5.7 Cum) are deployed at Dipka OC mine. A machine for plastic waste recycling system is installed in the campus to handle plastic waste effectively.

SECL Dipka Area has installed rooftop solar panels with total capacity of 150 kWp (100 kWp – Installed on the rooftop of the Area Office & 50 kWp – Installed on the rooftop of the parking area). However additional sites can be identified to install a greater number of solar panels in nearby areas.

Details of transportation of coal:

In-pit to surface -through rear dumpers and trucks (within ML area)  
Surface to siding – through enclosed conveyor belt/CC road (within ML area)  
Siding to Loading:

1. By Rapid loading system to railway wagons through silo (MGR) capacity 15 MT
2. By Rapid loading system to railway wagon through silo (FMC) capacity 25 MT
3. Truck loading at Coal Yard 5 to 8 MT

**Compliance to the partially complied conditions of the previously granted ECs: M/s. SECL submitted the following updated status in this regard:**

S. No.	Activity mention in EC	Timeline mention in EC	Action taken By PP
1	The past production details duly certified by the Chhattisgarh State Geology and Mining Department	May 2025	The past production details duly certified by the Chhattisgarh State Geology and Mining Department in respect of Dipka Open Cast coal mining Project is submitted to RO MoEF&CC Raipur vide letter no.83 dt 30.05.2025.
2	R&R implementation status (485 PAFs are yet to be resettled, 2606 land oustees are yet to be compensated and 144 PAPs are yet to be provided with the employment)	June 2025	Data submitted to RO MoEF&CC Raipur vide letter no.156 dt 30.06.2025.
3	Connectivity of existing CAAQMS with CPCB portal	June 2025	
4	Installation & commissioning	June 2025	

	of additional (02 Nos) CAAQMS along with Digital display board		
5	Plantation plan for 5 years	June 2025	
6	Development of Vertical Greenery System	Sep 2025	Data submitted to RO MoEF&CC Raipur vide letter no.288 dt 30.09.2025.
7	Installation & commissioning of 15 Nos of Fog cannon	June 2025	Data submitted to RO MoEF&CC Raipur vide letter no.156 dt 30.06.2025.

Following additional recommendations are made to PP for implementation.

1. In the Truck Receiving Station (TRS), adequate number of fixed water cannons needs to be deployed in the dumper unloading area to control the dust emissions.
2. Strengthening of road shoulders is essential on coal transportation routes to avoid fugitive emissions of dust due to truck movement. If necessary, the concerned State/Central Govt. departments shall be requested to take requisite measures.
3. Shoulders of roads within the ML area shall be strengthened and regular cleaning of the same shall be carried out.
4. Gap plantation shall be carried out on the OB dumps and nearby areas of in-pit conveyor belt and New Silo.
5. On the embankments of OB dump, requisite plantation shall be carried out to avoid gully formation and to avoid further soil erosion.
6. Wheel washing system shall be installed immediately for dumpers moving out of ML area.
7. Wild life census plan be acquired and that can be used in the implementation of WLAP.
8. Additional avenue plantation on internal roads shall be carried out.
9. The initiative shall be taken to install solar energy plants, tree plantation and adequate water supply in nearby schools which are mentioned as sensitive receptors.

Signatures:

1. Shri Inder Pal Singh Matharu (EAC Chairman)

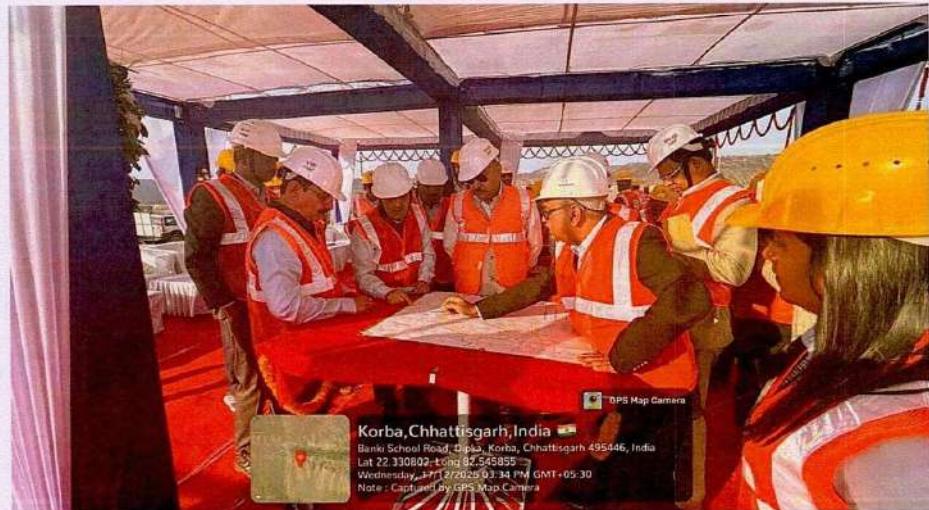
2. Dr Umesh Jagannathrao Kahalekar (Member of EAC)

3. Shri Mahi Pal Singh (Member EAC)

4. Shri Sundar Ramanathan, Scientist 'F' (Representative of MoEFCC)

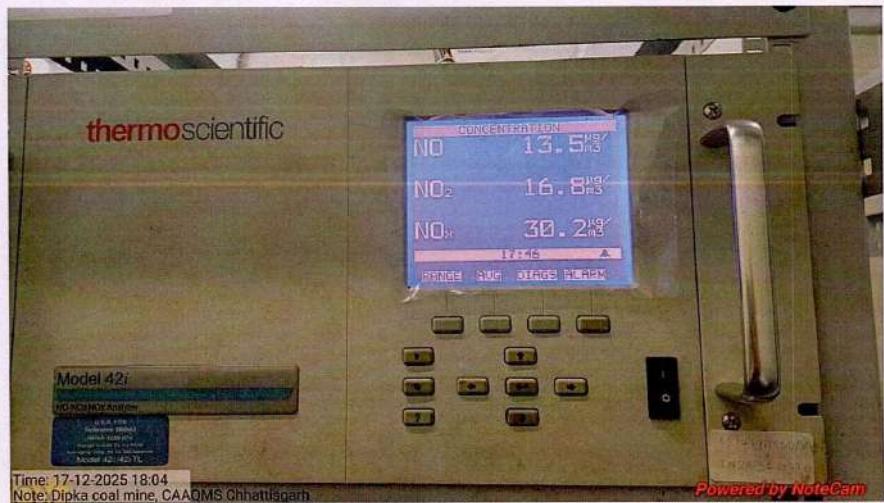
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**Visit to Mine Site**









CAAQMS

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**Approval of the Chairman**

**Re: Final MoM of the 38 EAC - Coal held on 20-21 Jan 2026**

**34 emails**

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

Mon, 02 Feb 2026 11:07:39 AM +0530

To "Sundar Ramanathan"<r.sundar@nic.in>

Dear Sundar ji

I have gone through the final draft MoM of the 38th EAC (Coal) meeting held on 20th 21st January 2026. All the issues which were discussed in meeting and made amendment later on in the zero draft, have been incorporated. I approve the final MoM of the 38th EAC (Coal).

Sincerely yours  
Inder Pal Singh Matharu  
Chairman  
EAC for Coal mining and Thermal Power  
MoEF&CC,GoI